



# Documentation relative à Astra Control Automation

Astra Automation

NetApp  
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# Sommaire

Documentation relative à Astra Control Automation	1
Notes de mise à jour	2
À propos de cette version	2
Nouveautés de l'API REST Astra Control	2
Problèmes connus	8
Versions antérieures de la documentation Astra Control Automation	8
Présentation des fonctionnalités et avantages	10
Commencez	11
Avant de commencer	11
Obtenir un jeton API	11
Votre premier appel API	12
Concepts de base de Kubernetes	13
Préparez l'utilisation des workflows	13
Référence d'API en ligne	15
Implémentation REST Astra	17
Conception centrale	17
Ressources et terminaux	23
Autres considérations	26
Workflows d'infrastructure	30
Avant de commencer	30
Identité et accès	30
Configuration LDAP	35
Clusters	54
Cloud	61
Seaux	61
Stockage	62
Flux de travail de gestion	69
Avant de commencer	69
Contrôle des applications	70
Protection des applications	74
Clonage et restauration d'une application	82
Espaces de noms	87
Assistance	89
À l'aide de Python	92
Kit de développement logiciel NetApp Astra Control Python	92
Python natif	94
Référence API	99
Overview	99
ASUP	99
Account	134
App	185
AppMirror	439
Application Asset	615

Application Backup	711
Application Snapshot	779
Bucket	812
Certificate	860
Cloud	910
Cluster	952
Cluster node	1090
Credential	1156
Entitlement	1202
Event	1220
Execution Hook	1254
Execution Hook Override	1365
Feature	1401
Group	1416
Hook source	1483
Kubernetes API Resource	1523
LDAP Group	1537
LDAP User	1551
License	1565
Managed cluster	1616
Metrics	1695
Namespace	1697
Notification	1785
Package	1818
Role binding	1879
Schedule	2103
Setting	2153
Storage backend	2187
Storage class	2248
Subscription	2305
Task	2357
Token	2383
Unread Notification	2451
Upgrade	2494
User	2527
Volume	2655
Ressources supplémentaires	2744
Astra	2744
Ressources cloud NetApp	2744
Concepts DE REPOS et cloud	2744
Mentions légales	2746
Droits d'auteur	2746
Marques déposées	2746
Brevets	2746
Politique de confidentialité	2746



# Documentation relative à Astra Control Automation

# Notes de mise à jour

## À propos de cette version

La documentation de ce site décrit l'API REST Astra Control et les technologies d'automatisation associées incluses dans les deux modèles de déploiement Astra Control.

### Gestion des versions

Un numéro de version du formulaire **YY.MM** est attribué à chaque version d'Astra Control. Cette valeur permet d'identifier la version basée sur l'année (YY) et le mois (MM) qu'elle est devenue disponible. Par exemple, Astra Control Center 23.07 a été commercialisé en juillet 2023.

### Cadence de sortie

Les mises à jour d'Astra Control Service et d'Astra Control Center sont généralement effectuées en même temps. Toutefois, par le passé, le rythme des versions d'Astra Control Service était accéléré. Résultat : une ou plusieurs mises à jour incrémentielles ont dépassé la version la plus récente d'Astra Control Center.

### Les déploiements d'Astra Control

La documentation de ce site s'applique aux versions suivantes d'Astra Control :

- ASTRA Control Service 23.10
- ASTRA Control Center 23.10

Étant donné que ce site documente l'API REST pour les deux modèles de déploiement, certaines fonctionnalités peuvent être disponibles uniquement avec un modèle de déploiement ou l'autre. Toute différence significative entre les deux est notée au besoin.

### Plus d'informations

Consultez les pages et sites suivants pour obtenir de plus amples renseignements sur les versions actuelles et précédentes d'Astra Control.

- ["Nouveautés de l'API REST Astra Control"](#)
- ["Ressources REST et terminaux"](#)
- ["Documentation d'Astra Control Center 23.10"](#)
- ["Documentation relative au service après-vente Astra Control"](#)
- ["Versions antérieures de la documentation d'Astra Automation"](#)

### Aidez-nous à améliorer la documentation

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## Nouveautés de l'API REST Astra Control

NetApp met régulièrement à jour l'API REST Astra Control pour vous apporter de nouvelles fonctionnalités, des améliorations et des correctifs.

## 7 novembre 2023 (23.10)

ASTRA Control Service et Astra Control Center ont tous deux été mis à jour avec la version 23.10. Certaines améliorations de l'API REST permettent de prendre en charge les nouvelles fonctionnalités.

### Extension des systèmes back-end de stockage

Vous pouvez activer les opérations de sauvegarde et de restauration pour `ontap-nas-economy` systèmes back-end.

### Sauvegardes immuables

ASTRA Control prend désormais en charge les sauvegardes inaltérables et en lecture seule en tant que couche de sécurité supplémentaire contre les malwares et autres menaces.

### Contrôle amélioré des crochets d'exécution

À partir de cette version, la fonctionnalité des crochets d'exécution peut être activée ou désactivée pour une sécurité supplémentaire (elle est désactivée par défaut). Si vous n'avez pas encore créé de crochets d'exécution à utiliser avec Astra Control, vous devez activer la fonction crochets d'exécution pour commencer à créer des crochets. Si vous avez créé des crochets d'exécution avant cette version, la fonctionnalité crochets d'exécution reste activée et vous pouvez utiliser des crochets comme vous le feriez normalement.

## 27 juillet 2023 (23.07)

Cette version inclut des améliorations sélectives de l'API REST. ASTRA Control Service et Astra Control Center ont tous deux été mis à jour avec la version 23.07.

### Opérations de clonage et de réplication

L'opération de clonage ne prend désormais en charge que les clones dynamiques (état actuel de l'application gérée). Pour cloner à partir d'un instantané ou d'une sauvegarde, vous devez utiliser l'opération de restauration. Par ailleurs, les applications peuvent désormais être répliquées entre les systèmes de stockage ONTAP back-end au sein du même cluster Kubernetes.

### Extension des systèmes back-end de stockage

Vous pouvez désormais utiliser des systèmes back-end de stockage supplémentaires avec Astra Control Center, notamment :

- NetApp MetroCluster dans une configuration étendue
- "Longhorn" 1.5.0 et versions ultérieures

### Nouveau type de crochet d'exécution

Le nouveau type de crochet d'exécution **post-failover** est disponible avec Astra Control Center.

## 27 juin 2023 (23.06)

Cette version inclut des mises à jour sélectives de l'API REST.

## Azure Marketplace

Les abonnements Azure Marketplace sont désormais facturés à l'heure et non à la minute. Voir aussi ["Configurez la facturation"](#).

## Optimisation Restic

Vous pouvez activer l'optimisation des performances pour les sauvegardes réstatiques à l'aide de l'indicateur `useResticParallel` dans le nouveau `astra.datamover` Paramètres ressource API. Lorsqu'il est réglé sur `true`, le nombre de `backendConnections` Ces utilisations rétiques sont accrues lors de la sauvegarde de volumes volumineux vers un conteneur Azure. Pour les volumes de 1 To à 4 To, 128 connexions sont utilisées. Pour les volumes de plus de 4 To, 512 connexions back-end sont utilisées.

## 30 mai 2023 (23.05)

Cette version inclut des mises à jour sélectives de l'API REST.

### Opérations de restauration sélective

Vous pouvez sélectionner la classe de stockage de destination pendant les opérations de restauration ou de clonage.

### Activez des pools ANF dynamiques pour les clusters autogérés

Lors de la sauvegarde d'une application gérée dans un cluster privé sur site doté d'un système back-end de stockage ANF, vous pouvez désormais activer la fonctionnalité de pools ANF dynamiques en fournissant un ID d'abonnement. Voir ["Activez des pools ANF dynamiques"](#) pour en savoir plus.

## 25 avril 2023 (23.04)

Cette version inclut des mises à jour sélectives de l'API REST.

### Opérations de restauration sélective

Vous pouvez inclure ou exclure de manière sélective des ressources d'application pendant les opérations de restauration. Pour ce faire, utilisez une règle de filtre basée sur un espace de noms, un nom, un libellé ou une valeur `GroupVersionKind` spécifique.

### Prise en charge des applications données uniquement

La prise en charge de la gestion des applications a été étendue aux applications de données uniquement.

## 17 janvier 2023 (23.01)

Cette version inclut une mise à jour mineure de l'API REST.

### Fonctionnalité améliorée de crochets d'exécution avec filtres

Lorsque vous utilisez des crochets d'exécution, vous pouvez désormais ajouter des filtres pour contrôler les conteneurs auxquels un crochet va correspondre. Si vous créez plusieurs filtres pour un seul crochet d'exécution, ils sont combinés avec un opérateur ET logique. Vous pouvez définir jusqu'à 10 filtres actifs par crochet d'exécution.



## 22 novembre 2022 (22.11)

Cette version inclut une extension et une mise à jour de l'API REST ainsi qu'une meilleure prise en charge de l'espace de noms et du protocole LDAP.

### Nouvelles ressources Astra

Quatre nouveaux types de ressources ont été ajoutés : **apiResource**, **IdapGroup**, **LDAPUser** et **Task**. En outre, plusieurs ressources et points de terminaison existants ont été améliorés.

### Suivi de la prise en charge des tâches à long terme

Les nouveaux noeuds finaux de tâche permettent d'accéder aux ressources de tâches gérées et peuvent être utilisés pour afficher l'état des tâches internes longues.

### Scénarios d'utilisation améliorés de l'espace de noms

Un support a été ajouté pour les applications, couvrant plusieurs espaces de noms ainsi que les ressources de cluster associées à des ressources qualifiées par espace de noms.

### Des abonnements cloud étendus

Des abonnements à plusieurs comptes peuvent désormais être ajoutés pour chacun des fournisseurs cloud.

### Flux de travail supplémentaires

Des workflows supplémentaires illustrant l'API REST Astra Control ont été ajoutés. Voir "[Workflows d'infrastructure](#)" et "[Flux de travail de gestion](#)" pour en savoir plus.

### Informations associées

- "[Nouveautés d'Astra Control Center 22.11](#)"

## 10 août 2022 (22.08)

Cette version inclut une extension et une mise à jour de l'API REST, ainsi que des fonctions de sécurité et d'administration améliorées.

### Nouvelles ressources Astra

Trois nouveaux types de ressources ont été ajoutés : **certificat**, **Groupe** et **AppMirror**. En outre, les versions de plusieurs ressources existantes ont été mises à jour.

### Authentification LDAP

Vous pouvez configurer Astra Control Center pour qu'il s'intègre à un serveur LDAP afin d'authentifier les utilisateurs Astra sélectionnés. Voir "[Configuration LDAP](#)" pour en savoir plus.

### Crochet d'exécution amélioré

Le support pour les crochets d'exécution a été ajouté avec la version 21.12 de l'Astra Control. En plus des crochets d'exécution pré-instantané et post-instantané existants, vous pouvez désormais configurer les types de crochets d'exécution suivants avec la version 22.08 :

- Avant sauvegarde

- Post-sauvegarde
- Post-restauration

Astra Control permet désormais d'utiliser le même script pour plusieurs crochets d'exécution.

### Réplication des applications à l'aide de SnapMirror

Vous pouvez désormais répliquer les données et les changements d'applications entre les clusters à l'aide de la technologie NetApp SnapMirror. Cette amélioration peut être utilisée pour améliorer la continuité de l'activité et les capacités de restauration.

#### Informations associées

- ["Astra Control Center 22.08 : les nouveautés"](#)

### 26 avril 2022 (22.04)

Cette version inclut une extension et une mise à jour de l'API REST, ainsi que des fonctions de sécurité et d'administration améliorées.

#### Nouvelles ressources Astra

Deux nouveaux types de ressources ont été ajoutés : **Package** et **Upgrade**. De plus, les versions de plusieurs ressources existantes ont été mises à niveau.

#### RBAC amélioré avec granularité de l'espace de noms

Lors de la liaison d'un rôle à un utilisateur associé, vous pouvez limiter les espaces de noms auxquels l'utilisateur a accès. Voir la référence **role Binding API** et ["Sécurité RBAC"](#) pour en savoir plus.

#### Dépose du godet

Vous pouvez retirer un godet lorsqu'il n'est plus nécessaire ou qu'il ne fonctionne pas correctement.

#### Prise en charge de Cloud Volumes ONTAP

Cloud Volumes ONTAP est désormais pris en charge en tant que système back-end de stockage.

#### Autres améliorations produit

Plusieurs améliorations supplémentaires ont été apportées aux deux versions d'Astra Control, notamment :

- Entrée générique pour Astra Control Center
- Cluster privé à AKS
- Prise en charge de Kubernetes 1.22
- Prise en charge de la gamme VMware Tanzu

Consultez la page **Nouveautés** des sites de documentation Astra Control Center et Astra Control Service.

#### Informations associées

- ["Astra Control Center 22.04 : les nouveautés"](#)

## 14 décembre 2021 (21.12)

Cette version inclut une extension de l'API REST ainsi qu'un changement dans la structure de documentation pour mieux prendre en charge l'évolution d'Astra Control à travers les mises à jour futures.

### Documentation distincte sur l'automatisation Astra pour chaque version d'Astra Control

Chaque nouvelle version d'Astra Control comprend une API REST distincte qui a été améliorée et adaptée aux caractéristiques de cette version. La documentation relative à chaque version de l'API REST Astra Control est désormais disponible sur son propre site Web dédié et dans le référentiel de contenu GitHub associé. Le site principal du document "[Automatisation du contrôle d'Astra](#)" contient toujours la documentation de la version la plus récente. Voir "[Versions antérieures de la documentation Astra Control Automation](#)" pour plus d'informations sur les versions précédentes.

### Extension des types de ressources REST

Le nombre de types de ressources REST a continué de s'étendre, en mettant l'accent sur les crochets d'exécution et les systèmes back-end de stockage. Les nouvelles ressources incluent : compte, crochet d'exécution, source de hook, outrepassement de point d'exécution, nœud de cluster, gestion du système de stockage back-end, de l'espace de noms, du périphérique de stockage et du nœud de stockage. Voir "[Ressources](#)" pour en savoir plus.

### Kit de développement logiciel NetApp Astra Control Python

Le kit de développement logiciel NetApp Astra Control Python est un pack open source qui facilite le développement du code d'automatisation pour votre environnement Astra Control. Au cœur du jeu de développement Astra, qui comprend un ensemble de classes pour extraire la complexité des appels de l'API REST. Il existe également un script de boîte à outils pour exécuter des tâches administratives spécifiques en enveloppant et en retirant les classes Python. Voir "[Kit de développement logiciel NetApp Astra Control Python](#)" pour en savoir plus.

### Informations associées

- "[Astra Control Center 21.12 : les nouveautés](#)"

## 5 août 2021 (21.08)

Avec cette version, il introduit un nouveau modèle de déploiement Astra et un important élargissement de l'API REST.

### Modèle de déploiement d'Astra Control Center

Outre l'offre Astra Control Service proposée en tant que service de cloud public, cette version inclut également le modèle de déploiement sur site d'Astra Control Center. Vous pouvez installer Astra Control Center sur votre site pour gérer votre environnement Kubernetes local. Les deux modèles de déploiement Astra Control partagent la même API REST, avec de légères différences notées dans la documentation.

### Extension des types de ressources REST

Avec l'API REST Astra Control, le nombre de ressources accessibles est considérablement étendu. Un grand nombre de ces nouvelles ressources constituent le socle de l'offre Astra Control Center sur site. Les nouvelles ressources disponibles sont : ASUP, droit, fonctionnalité, licence, définition abonnement, compartiment, cloud, cluster, cluster géré, système back-end et classe de stockage. Voir "[Ressources](#)" pour en savoir plus.

## Terminaux supplémentaires prenant en charge un déploiement Astra

Outre les ressources REST étendues, plusieurs autres terminaux d'API sont disponibles pour prendre en charge le déploiement d'Astra Control.

### Prise en charge d'OpenAPI

Les noeuds finaux OpenAPI donnent accès au document JSON OpenAPI actuel et à d'autres ressources associées.

### Prise en charge d'OpenMetrics

Les noeuds finaux OpenMetrics fournissent un accès aux mesures du compte via la ressource OpenMetrics.

## 15 avril 2021 (21.04)

Cette version comprend de nouvelles fonctionnalités et améliorations suivantes.

### Introduction de l'API REST

L'API REST Astra Control est disponible avec l'offre de service Astra Control. Sa création repose sur les technologies REST et les meilleures pratiques actuelles. Il constitue le socle de l'automatisation de vos déploiements Astra et inclut plusieurs fonctionnalités et avantages :

#### Ressources

Quatorze types de ressources REST sont disponibles.

#### Accès au jeton d'API

L'accès à l'API REST est assuré via un jeton d'accès à l'API que vous pouvez générer à partir de l'interface utilisateur Web Astra. Le jeton API fournit un accès sécurisé à l'API.

#### Prise en charge des collections

Il existe un ensemble riche de paramètres de requête qui peuvent être utilisés pour accéder aux collections de ressources. Certaines opérations prises en charge incluent le filtrage, le tri et la pagination.

## Problèmes connus

Vous devez passer en revue tous les problèmes connus de la version actuelle d'Astra Control et de l'API REST associée. Les problèmes connus identifient les problèmes susceptibles de vous empêcher d'utiliser le produit avec succès. Consultez l'une des pages suivantes en fonction de votre modèle de déploiement :

- ["Problèmes connus concernant le service de contrôle Astra"](#)
- ["Problèmes connus pour Astra Control Center 23.10"](#)

## Versions antérieures de la documentation Astra Control Automation

Vous pouvez accéder à la documentation relative à l'automatisation des versions antérieures d'Astra Control en cliquant sur les liens ci-dessous.

- "Documentation d'Astra Control Automation 23.07"
- "Documentation d'Astra Control Automation 23.04"
- "Documentation d'Astra Control Automation 22.11"
- "Documentation Astra Control Automation 22.08"
- "Documentation Astra Control Automation 22.04"
- "Documentation Astra Control Automation 21.12"
- "Documentation Astra Control Automation 21.08"

# Présentation des fonctionnalités et avantages

Astra Control Center et Astra Control Service fournissent une API REST commune que vous pouvez accéder directement via un langage de programmation ou un utilitaire tel que Curl. Les principaux points forts et avantages de l'API sont présentés ci-dessous.



Pour accéder à l'API REST, vous devez d'abord vous connecter à l'interface utilisateur Web Astra et générer un jeton API. Vous devez inclure le token à chaque requête d'API.

## Basée sur la technologie REST

L'API de contrôle d'Astra a été créée à l'aide de la technologie REST et des bonnes pratiques actuelles. La technologie centrale inclut HTTP, JSON et RBAC.

## Prise en charge des deux modèles de déploiement Astra Control

Astra Control Service est utilisé dans l'environnement de cloud public, tandis qu'Astra Control Center est conçu pour vos déploiements sur site. Une API REST prend en charge ces deux modèles de déploiement.

## Effacez le mappage entre les ressources du terminal REST et le modèle d'objet

Les terminaux REST externes utilisés pour accéder au mappage des ressources vers un modèle d'objet cohérent géré en interne par le service Astra. Le modèle d'objet est conçu à l'aide de la modélisation de relation d'entité (ER) qui permet de définir clairement les actions et les réponses de l'API.

## Ensemble complet de paramètres de requête

L'API REST fournit un ensemble complet de paramètres de requête que vous pouvez utiliser pour accéder aux collections de ressources. Certaines opérations prises en charge incluent le filtrage, le tri et la pagination.

## Alignement avec l'interface utilisateur Web Astra Control

La conception de l'interface utilisateur Web Astra est alignée avec l'API REST, ce qui garantit la cohérence entre les deux chemins d'accès et l'expérience utilisateur.

## Données robustes de débogage et de détermination des problèmes

L'API REST Astra Control offre une fonctionnalité de débogage et de détermination des problèmes robuste, y compris les événements système et les notifications utilisateur.

## Processus de flux de travail

Un ensemble de workflows est fourni pour vous aider au développement de votre code d'automatisation. Les workflows sont organisés en deux catégories principales : infrastructure et gestion.

## Socle des technologies d'automatisation avancées

Vous pouvez non seulement accéder directement à l'API REST, mais aussi utiliser d'autres technologies d'automatisation basées sur l'API REST.

## Fait partie de la documentation de la gamme Astra

La documentation relative à l'automatisation du contrôle Astra fait partie de la documentation de la gamme Astra la plus vaste. Voir "[Documentation Astra](#)" pour en savoir plus.

# Commencez

## Avant de commencer

Vous pouvez vous préparer rapidement à vous lancer avec l'API REST Astra Control en passant en revue les étapes ci-dessous.

### Possèdent des identifiants de compte Astra

Vous aurez besoin d'informations d'identification Astra pour vous connecter à l'interface utilisateur Web Astra et générer un jeton API. Avec Astra Control Center, vous gérez ces informations d'identification localement. Avec le service de contrôle Astra, les informations d'identification du compte sont accessibles via le service **Auth0**.

### Concepts de base de Kubernetes

Vous devez maîtriser plusieurs concepts Kubernetes de base. Voir "[Concepts de base de Kubernetes](#)" pour en savoir plus.

### Examiner les concepts DE REPOS et la mise en œuvre

Assurez-vous de passer en revue "[Implémentation DE l'APPLICATION REST de cœur](#)" Pour plus d'informations sur les concepts DE REPOS et les détails concernant la conception de l'API REST Astra Control.

### En savoir plus

Vous devez connaître les ressources d'information supplémentaires, comme le suggère le "[Ressources supplémentaires](#)".

## Obtenir un jeton API

Vous devez obtenir un jeton API Astra pour utiliser l'API REST Astra Control.

### Présentation

Un jeton API identifie l'appelant auprès d'Astra et doit être inclus avec chaque appel d'API REST.

- Vous devez générer un jeton d'API à l'aide de l'interface utilisateur web d'Astra.
- La procédure de génération d'un jeton est la même pour les deux modèles de déploiement Astra. Seule l'URL utilisée pour accéder à Astra est différente.
- L'identité de l'utilisateur avec le token et les autorisations associées sont déterminées par l'utilisateur qui a créé le token.
- Le jeton doit être inclus dans le `Authorization` En-tête de requête HTTP.
- Un jeton n'expire jamais après sa création.
- Vous pouvez révoquer un jeton dans l'interface utilisateur Web Astra.

### Informations associées

- "[Révoquer un jeton API](#)"

## Créez un jeton API Astra

Les étapes suivantes décrivent comment créer un jeton API Astra.

### Avant de commencer

Vous avez besoin d'informations d'identification pour un compte Astra.

### Description de la tâche

Cette tâche génère un jeton API sur l'interface Web Astra. Vous devez également récupérer l'ID de compte qui est également nécessaire lors de la réalisation d'appels API.

### Étapes

1. Connectez-vous à Astra en utilisant les identifiants de votre compte comme suit :
  - ASTRA Control Service : "<https://astra.netapp.io>"
  - ASTRA Control Center : utilisez l'URL de votre environnement local tel qu'établi lors de l'installation
2. Cliquez sur l'icône figure en haut à droite de la page et sélectionnez **API Access**.
3. Cliquez sur **générer jeton API** sur la page, puis cliquez sur **générer jeton API** dans la fenêtre contextuelle.
4. Cliquez sur l'icône pour copier la chaîne de token dans le presse-papiers et l'enregistrer dans votre éditeur.
5. Copiez et enregistrez l'ID de compte disponible sur la même page.

### Une fois que vous avez terminé

Lorsque vous accédez à l'API REST d'Astra Control via curl ou un langage de programmation, vous devez inclure le jeton de support d'API dans le protocole HTTP `Authorization` en-tête de demande.

## Votre premier appel API

Vous pouvez lancer une commande curl simple sur la CLI de votre station de travail pour commencer à utiliser l'API REST Astra Control et confirmer sa disponibilité.

### Avant de commencer

L'utilitaire Curl doit être disponible sur votre poste de travail local. Vous devez également disposer d'un jeton API et de l'identifiant de compte associé. Voir "[Obtenir un jeton API](#)" pour en savoir plus.

### Exemple de boucle

La commande Curl suivante récupère la liste des utilisateurs Astra. Fournissez les `<ACCOUNT_ID>` et `<API_TOKEN>` appropriés comme indiqué.

```
curl --location --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/users' --header
'Content-Type: application/json' --header 'Authorization: Bearer
<API_TOKEN>'
```



## Exemple de sortie JSON

```
{
  "items": [
    [
      "David",
      "Anderson",
      "844ec6234-11e0-49ea-8434-a992a6270ec1"
    ],
    [
      "Jane",
      "Cohen",
      "2a3e227c-fda7-4145-a86c-ed9aa0183a6c"
    ]
  ],
  "metadata": {}
}
```

## Concepts de base de Kubernetes

Plusieurs concepts Kubernetes sont pertinents pour l'utilisation de l'API REST d'Astra.

### Objets

Les objets gérés dans un environnement Kubernetes sont des entités permanentes qui représentent la configuration du cluster. Ces objets décrivent collectivement l'état du système, y compris la charge de travail du cluster.

### Espaces de noms

Les espaces de noms fournissent une technique d'isolement des ressources au sein d'un même cluster. Cette structure organisationnelle est utile pour répartir les types de travail, d'utilisateurs et de ressources. Les objets avec un *namespace scope* doivent être uniques dans le namespace, tandis que ceux avec un *cluster scope* doivent être uniques dans tout le cluster.

### Étiquettes

Des étiquettes peuvent être associées aux objets Kubernetes. Ils décrivent les attributs à l'aide de paires de valeurs clés et peuvent appliquer une organisation arbitraire sur le cluster, ce qui peut être utile à une entreprise, mais ne fonctionne pas dans le système Kubernetes de base.

## Préparez l'utilisation des workflows

Vous devez aussi connaître l'entreprise et le format des workflows Astra avant de les utiliser avec un déploiement en direct.

## Introduction

Un *workflow* est une séquence d'une ou de plusieurs étapes nécessaires à la réalisation d'une tâche ou d'un objectif administratif spécifique. Chaque étape d'un workflow de contrôle Astra est l'une des suivantes :

- Appel d'API REST (avec des détails tels que des exemples Curl et JSON)
- Appel d'un autre flux de travail Astra
- Tâche associée divers (par exemple, prise d'une décision de conception requise)

Ces flux de travail incluent les étapes clés et les paramètres nécessaires à l'exécution de chaque tâche. Ils constituent un point de départ pour la personnalisation de votre environnement d'automatisation.

## Paramètres d'entrée communs

Les paramètres d'entrée décrits ci-dessous sont communs à tous les échantillons curl utilisés pour illustrer un appel API REST.



Comme ces paramètres d'entrée sont universellement requis, ils ne sont pas décrits plus en détail dans les flux de travail individuels. Si des paramètres d'entrée supplémentaires sont utilisés pour un exemple de boucle spécifique, ils sont décrits dans la section **Paramètres d'entrée supplémentaires**.

### Paramètres de chemin

Le chemin du noeud final utilisé avec chaque appel d'API REST inclut les paramètres suivants. Voir aussi "[Format d'URL](#)" pour en savoir plus.

### ID de compte

Il s'agit de la valeur UUIDv4 identifiant le compte Astra sur lequel l'opération API s'exécute. Voir "[Obtenir un jeton API](#)" Pour plus d'informations sur la localisation de votre identifiant de compte.

### En-têtes de demande

En fonction de l'appel d'API REST, vous devrez peut-être inclure plusieurs en-têtes de requête.

### Autorisation

Tous les appels d'API dans les workflows requièrent un jeton d'API pour identifier l'utilisateur. Vous devez inclure le token dans le `Authorization` en-tête de demande. Voir "[Obtenir un jeton API](#)" Pour plus d'informations sur la génération d'un jeton API.

### Types de contenu

Avec LA PUBLICATION HTTP et LES requêtes PUT où JSON est inclus dans le corps de la demande, vous devez déclarer le type de support en fonction de la ressource Astra. Par exemple, vous pouvez inclure l'en-tête `Content-Type: application/astra-appSnap+json` lors de la création d'un snapshot pour une application gérée.

### Accepter

Vous pouvez déclarer le type de support spécifique du contenu que vous attendez dans la réponse en fonction de la ressource Astra. Par exemple, vous pouvez inclure l'en-tête `Accept: application/astra-appBackup+json` lors de la liste des sauvegardes pour une application gérée. Cependant, pour plus de simplicité, les échantillons curl dans les flux de production acceptent tous les types de support.

## Présentation des jetons et des identificateurs

Le jeton API et les autres valeurs d'ID utilisées avec les exemples de boucles sont opaques sans signification perceptible. Afin d'améliorer la lisibilité des échantillons, les valeurs réelles de jeton et d'ID ne sont pas utilisées. Des mots-clés réservés plus petits sont utilisés, ce qui présente plusieurs avantages :

- Les échantillons curl et JSON sont plus clairs et plus faciles à comprendre.
- Comme tous les mots-clés utilisent le même format avec des crochets et des lettres majuscules, vous pouvez rapidement identifier l'emplacement et le contenu à insérer ou extraire.
- Aucune valeur n'est perdue car les paramètres d'origine ne peuvent pas être copiés et utilisés avec un déploiement réel.

Voici quelques-uns des mots-clés réservés communs utilisés dans les exemples curl. Cette liste n'est pas exhaustive et des mots-clés supplémentaires sont utilisés au besoin. Leur signification devrait être évidente sur la base du contexte.

Mot-clé	Type	Description
<ID_COMPTE>	Chemin	Valeur UUIDv4 identifiant le compte sur lequel l'opération API s'exécute.
<API_TOKEN>	En-tête	Le jeton porteur identifiant et autorise l'appelant.
<ID_APP>	Chemin	Valeur UUIDv4 identifiant l'application pour l'appel d'API.

## Catégories de flux de travail

Selon votre modèle de déploiement, vous pouvez consulter deux catégories de workflows Astra. Si vous utilisez Astra Control Center, vous devez d'abord les workflows d'infrastructure, puis passer aux workflows de gestion. Avec Astra Control Service, vous pouvez généralement accéder directement aux workflows de gestion.



Les exemples de boucles des flux de travail utilisent l'URL du service de contrôle Astra. Vous devez modifier l'URL lorsque vous utilisez le centre de contrôle Astra sur site en fonction de votre environnement.

### Workflows d'infrastructure

Ces workflows sont associés à l'infrastructure Astra, notamment les identifiants, les compartiments et les systèmes de stockage back-end. Elles sont nécessaires avec le centre de contrôle Astra, mais dans la plupart des cas peuvent également être utilisées avec le service de contrôle Astra. Les flux de travail se concentrent sur les tâches requises pour établir et gérer un cluster géré par Astra.

### Flux de travail de gestion

Vous pouvez utiliser ces flux de travail une fois que vous avez un cluster géré. Les workflows sont axés sur la protection des applications, ainsi que sur les opérations de prise en charge, comme la sauvegarde, la restauration et le clonage d'une application.

## Référence d'API en ligne

## Accédez à la documentation de référence d'Astra API

Vous pouvez accéder aux détails des appels de l'API REST Astra Control, y compris les méthodes HTTP, les paramètres d'entrée et les réponses. Cette référence complète est utile lors du développement d'applications d'automatisation à l'aide de l'API REST.

### Avant de commencer

Vous avez besoin de identifiants pour vous connecter à l'interface utilisateur web d'Astra pour votre déploiement. La procédure d'accès à la documentation de référence est la même pour Astra Control Service et Astra Control Center. Seule l'URL est différente. Un jeton API n'est pas nécessaire pour accéder au document de référence et l'afficher

### Étapes

1. Connectez-vous à Astra en utilisant les identifiants de votre compte comme suit :
  - ASTRA Control Service : "<https://astra.netapp.io>"
  - ASTRA Control Center : utilisez l'URL de votre environnement local tel qu'établi lors de l'installation
2. Cliquez sur l'icône figure en haut à droite de la page et sélectionnez **API Access**.
3. En haut de la page, cliquez sur l'URL affichée sous **Documentation API**.

### Résultat

La page swagger est lancée dans une nouvelle fenêtre ou un nouvel onglet. Notez que l'URL inclut l'ID de compte du compte avec lequel vous vous êtes connecté.

### Et la suite ?

Vous pouvez éventuellement exécuter un appel d'API à partir de la page swagger. Voir "[Émettez un appel d'API REST Astra](#)" pour en savoir plus.

## Émettez un appel d'API REST Astra

Vous pouvez émettre un appel d'API REST Astra Control à partir de la page de documentation de référence de l'API.

### Avant de commencer

Vous devez vous connecter à Astra et accéder à la page de référence de l'API. Voir "[Accédez à la documentation de référence d'Astra API](#)" pour en savoir plus. Vous avez également besoin d'un jeton pour utiliser l'API REST. Voir "[Obtenir un jeton API](#)" Pour plus d'informations sur la génération d'un jeton d'API.

### Étapes

1. En haut de la page de référence de l'API, cliquez sur **Autoriser**.
2. Copiez et collez votre valeur de jeton d'API dans le champ de la fenêtre contextuelle, cliquez sur **Autoriser**, puis cliquez sur **Fermer**.
3. Faites défiler la page vers le bas et ouvrez l'appel d'API souhaité.
4. Cliquez avec le bouton droit de la souris sur **essayez-le**.
5. Faites défiler vers le bas dans le même appel d'API. Indiquez les valeurs de paramètres requises et cliquez sur **Exécute** pour émettre l'appel.

### Résultat

L'appel API est exécuté et le code d'état HTTP s'affiche.

# Implémentation REST Astra

## Conception centrale

### Services web REST

Representational State Transfer (REST) est un style qui permet de créer des applications Web distribuées. Lorsqu'il est appliqué à la conception d'une API de services Web, il établit un ensemble de technologies classiques et de meilleures pratiques pour l'exposition des ressources basées sur serveur et la gestion de leurs États. REST fournit une base cohérente pour le développement d'applications. Les détails de chaque API peuvent varier en fonction des choix de conception spécifiques. Vous devez connaître les caractéristiques de l'API REST Astra Control avant de l'utiliser avec un déploiement en direct.

### Ressources et représentation d'état

Les ressources sont les composants de base d'un système basé sur le Web. Lors de la création d'une application de services Web REST, les premières tâches de conception incluent :

- Identification des ressources système ou serveur

Chaque système utilise et gère les ressources. Une ressource peut être un fichier, une transaction commerciale, un processus ou une entité administrative. L'une des premières tâches de conception d'une application basée sur des services Web REST consiste à identifier les ressources.

- Définition des États de ressource et des opérations d'état associées

Les ressources se trouvent toujours dans un des États finis. Les États, ainsi que les opérations associées utilisées pour affecter les changements d'état, doivent être clairement définis.

### Terminaux URI

Chaque ressource REST doit être définie et mise à disposition à l'aide d'un schéma d'adressage bien défini. Les noeuds finaux où les ressources sont situées et identifiées utilisent un URI (Uniform Resource Identifier). L'URI fournit un cadre général pour créer un nom unique pour chaque ressource du réseau. L'URL (Uniform Resource Locator) est un type d'URI utilisé avec les services Web pour identifier et accéder aux ressources. Les ressources sont généralement exposées dans une structure hiérarchique similaire à un répertoire de fichiers.

### Messages HTTP

Le protocole HTTP (Hypertext Transfer Protocol) est le protocole utilisé par le client et le serveur de services Web pour échanger des messages de requête et de réponse sur les ressources. Dans le cadre de la conception d'une application de services Web, les méthodes HTTP sont mappées aux ressources et aux actions de gestion d'état correspondantes. Le HTTP est sans état. Par conséquent, pour associer un ensemble de requêtes et de réponses associées dans le cadre d'une transaction, des informations supplémentaires doivent être incluses dans les en-têtes HTTP des flux de données de requête et de réponse.

## Formatage JSON

Bien que l'information puisse être structurée et transférée de plusieurs façons entre un client de services Web et un serveur, l'option la plus populaire est JavaScript Object notation (JSON). JSON est une norme de l'industrie qui représente les structures de données simples en texte brut et permet de transférer les informations d'état décrivant les ressources. L'API REST Astra Control utilise JSON pour formater les données contenues dans le corps de chaque requête et réponse HTTP.

## Ressources et collections

L'API REST Astra Control permet d'accéder aux instances de ressources et aux ensembles d'instances de ressources.



Sur le plan conceptuel, une ressource REST \* est similaire à un **objet** tel que défini avec les langages et systèmes de programmation orientés objet (OOP). Parfois, ces termes sont utilisés de manière interchangeable. Mais en général, la méthode « ressource » est préférée lorsqu'elle est utilisée dans le contexte de l'API REST externe tandis que l'option « objet » est utilisée pour les données d'instance avec état correspondantes stockées sur le serveur.

### Caractéristiques des ressources Astra

L'API REST Astra Control est conforme aux principes de conception RESTful. Chaque instance de ressource Astra est créée en fonction d'un type de ressource bien défini. Un ensemble d'instances de ressource du même type est appelé **collection**. Les appels de l'API agissent sur des ressources individuelles ou des collections de ressources.

### Types de ressource

Les types de ressource inclus avec l'API REST Astra Control présentent les caractéristiques suivantes :

- Chaque type de ressource est défini à l'aide d'un schéma (généralement au format JSON).
- Chaque schéma de ressource inclut le type et la version de ressource
- Les types de ressources sont globalement uniques

### Instances de ressources

Les instances de ressources disponibles via l'API REST Astra Control présentent les caractéristiques suivantes :

- Les instances de ressources sont créées en fonction d'un type de ressource unique
- Le type de ressource est indiqué à l'aide de la valeur Type de support
- Les instances sont composées de données avec état qui sont conservées par le service Astra
- Chaque instance est accessible via une URL unique et longue durée
- Dans les cas où une instance de ressource peut avoir plusieurs représentations, différents types de support peuvent être utilisés pour demander la représentation souhaitée

### Collections de ressources

Les collections de ressources disponibles via l'API REST Astra Control présentent les caractéristiques suivantes :

- L'ensemble des instances de ressource d'un type de ressource unique est appelé collection

- Les collections de ressources ont une URL unique et de longue durée

### Identifiants d'instances

Un identifiant est attribué à chaque instance de ressource lors de sa création. Cet identifiant est une valeur UUIDv4 128 bits. Les valeurs UUIDv4 attribuées sont globalement uniques et immuables. Après l'émission d'un appel API qui crée une nouvelle instance, une URL avec l'ID associé est renvoyée à l'appelant dans un `Location` En-tête de la réponse HTTP. Vous pouvez extraire l'identificateur et l'utiliser sur les appels suivants lorsque vous faites référence à l'instance de ressource.



L'identifiant de ressource est la clé principale utilisée pour les collections.

### Structure commune pour les ressources Astra

Chaque ressource Astra Control est définie à l'aide d'une structure commune.

#### Les données communes

Chaque ressource Astra contient les valeurs-clés indiquées dans le tableau suivant.

Clé	Description
type	Type de ressource unique et global appelé <b>type de ressource</b> .
version	Un identificateur de version appelé <b>version de ressource</b> .
id	Un identificateur unique global appelé <b>identificateur de ressource</b> .
les métadonnées	Objet JSON contenant diverses informations, y compris les étiquettes de l'utilisateur et du système.

#### Objet de métadonnées

L'objet de métadonnées JSON inclus avec chaque ressource Astra contient les valeurs de clé indiquées dans le tableau suivant.

Clé	Description
étiquettes	Tableau JSON d'étiquettes spécifiées par le client associées à la ressource.
CréationTimestamp	Chaîne JSON contenant un horodatage indiquant quand la ressource a été créée.
ModificationTimestamp	Chaîne JSON contenant un horodatage au format ISO-8601 indiquant quand la ressource a été modifiée pour la dernière fois.
CreatedBy	Chaîne JSON contenant l'identifiant UUIDv4 de l'ID utilisateur qui a créé la ressource. Si la ressource a été créée par un composant système interne et qu'aucun UUID n'est associé à l'entité de création, l'UUID <b>null</b> est utilisé.

#### État de la ressource

Ressources sélectionnées a `state` valeur utilisée pour orchestrer les transitions de cycle de vie et contrôler l'accès.

### Détails HTTP

L'API REST Astra Control utilise HTTP et les paramètres associés pour agir sur les instances et les collections de ressources. Les détails de l'implémentation HTTP sont

présentés ci-dessous.

## Transactions API et modèle CRUD

L'API REST d'Astra Control met en œuvre un modèle transactionnel avec des opérations et des transitions d'état clairement définies.

### Transaction d'API de demande et de réponse

Chaque appel d'API REST est exécuté sous forme de requête HTTP auprès du service Astra. Chaque requête génère une réponse associée au client. Cette paire demande-réponse peut être considérée comme une transaction API.

### Prise en charge du modèle opérationnel CRUD

Chaque instance et collection de ressources disponibles via l'API REST Astra Control est accessible en fonction du modèle **CRUD**. Il existe quatre opérations, chacune étant mappée à une seule méthode HTTP. Ses opérations sont les suivantes :

- Création
- Lecture
- Mise à jour
- Supprimer

Pour certaines ressources Astra, seul un sous-ensemble de ces opérations est pris en charge. Vous devez consulter le "[Référence d'API en ligne](#)" Pour plus d'informations sur un appel d'API spécifique.

## Méthodes HTTP

Les méthodes HTTP ou verbes pris en charge par l'API sont présentées dans le tableau ci-dessous.

Méthode	CRUD	Description
OBTENEZ	Lecture	Récupère les propriétés d'un objet pour une instance ou une collection de ressources. Cette opération est considérée comme une opération <b>list</b> lorsqu'elle est utilisée avec une collection.
POST	Création	Crée une nouvelle instance de ressource basée sur les paramètres d'entrée. L'URL à long terme est renvoyée dans un <code>Location</code> en-tête de réponse.
EN	Mise à jour	Met à jour une instance de ressource entière avec le corps de demande JSON fourni. Les valeurs clés qui ne sont pas modifiables par l'utilisateur sont conservées.
SUPPRIMER	Supprimer	Supprime une instance de ressource existante.

## En-têtes de demande et de réponse

Le tableau suivant résume les en-têtes HTTP utilisés avec l'API REST Astra Control.



Voir "[RFC 7232](#)" et "[RFC 7233](#)" pour en savoir plus.



En-tête	Type	Remarques sur l'utilisation
Accepter	Demande	Si la valeur est "/" ou n'est pas fournie, <code>application/json</code> Est renvoyé dans l'en-tête de réponse Content-Type. Si la valeur est définie sur le type de support de ressource Astra, le même type de support est renvoyé dans l'en-tête Type de contenu.
Autorisation	Demande	Jeton porteur avec la clé API pour l'utilisateur.
Type de contenu	Réponse	Renvoyé en fonction du <code>Accept</code> en-tête de demande.
ETAG	Réponse	Inclus avec un succès tel que défini dans RFC 7232. La valeur est une représentation hexadécimale de la valeur MD5 pour l'ensemble de la ressource JSON.
IF-match	Demande	En-tête de demande préalable mise en œuvre comme décrit à la section 3.1 RFC 7232 et prise en charge des requêtes <b>PUT</b> .
Si-modifié-depuis	Demande	Un en-tête de requête de condition préalable implémenté comme décrit à la section 3.4 RFC 7232 et la prise en charge des requêtes <b>PUT</b> .
Si-non modifié-depuis	Demande	Un en-tête de requête de condition préalable implémenté comme décrit à la section 3.4 RFC 7232 et la prise en charge des requêtes <b>PUT</b> .
Emplacement	Réponse	Contient l'URL complète de la nouvelle ressource créée.

## Paramètres de requête

Les paramètres de requête suivants peuvent être utilisés avec les collections de ressources. Voir "[Travailler avec les collections](#)" pour en savoir plus.

Paramètre de requête	Description
<code>inclure</code>	Contient les champs à retourner lors de la lecture d'une collection.
<code>filtre</code>	Indique les champs devant correspondre pour qu'une ressource soit renvoyée lors de la lecture d'une collection.
<code>Orderby</code>	Détermine l'ordre de tri des ressources renvoyées lors de la lecture d'une collection.
<code>limite</code>	Limite le nombre maximal de ressources renvoyées lors de la lecture d'une collection.
<code>ignorer</code>	Définit le nombre de ressources à passer et ignorer lors de la lecture d'une collection.
<code>nombre</code>	Indique si le nombre total de ressources doit être renvoyé dans l'objet métadonnées.

## Codes d'état HTTP

Les codes d'état HTTP utilisés par l'API REST Astra Control sont décrits ci-dessous.



L'API REST Astra Control utilise également la norme **Détails du problème pour les API HTTP**. Voir "[Diagnostics et support](#)" pour en savoir plus.

Code	Signification	Description
200	OK	Indique la réussite des appels qui ne créent pas une nouvelle instance de ressource.
201	Créé	Un objet est créé avec succès et l'en-tête de réponse d'emplacement inclut l'identifiant unique de l'objet.
204	Aucun contenu	La demande a réussi bien qu'aucun contenu n'ait été renvoyé.
400	Demande incorrecte	L'entrée de la demande n'est pas reconnue ou est inappropriée.
401	Non autorisé	L'utilisateur n'est pas autorisé et doit être autorisé.
403	Interdit	L'accès est refusé en raison d'une erreur d'autorisation.
404	Introuvable	La ressource mentionnée dans la demande n'existe pas.
409	Conflit	La tentative de création d'un objet a échoué car celui-ci existe déjà.
500	Erreur interne	Une erreur interne générale s'est produite sur le serveur.
503	Service indisponible	Le service n'est pas prêt à traiter la demande pour une raison quelconque.

## Format d'URL

La structure générale de l'URL utilisée pour accéder à une instance de ressource ou à une collection via l'API REST est composée de plusieurs valeurs. Cette structure reflète le modèle d'objet sous-jacent et la conception du système.

### En tant que racine

Le compte Astra est la racine du chemin de ressource vers chaque point final REST. Ainsi, tous les chemins d'accès de l'URL commencent par `/account/{account_id}` où `account_id` est la valeur UUIDv4 unique du compte. Structure interne cette conception reflète une conception où tout accès aux ressources est basé sur un compte spécifique.

### Catégorie de ressource de point final

Les terminaux de ressources d'Astra se répartissent en trois catégories :

- Cœur (`/core`)
- Application gérée (`/k8s`)
- Topologie (`/topology`)

Voir "[Ressources](#)" pour en savoir plus.

### Version de catégorie

Chacune des trois catégories de ressources possède une version globale qui contrôle la version des ressources consultées. Par convention et définition, passage à une nouvelle version majeure d'une catégorie de ressources (par exemple, de `/v1` à `/v2`) Introduira des changements de rupture dans l'API.

### Instance ou collection de ressources

Une combinaison de types de ressources et d'identificateurs peut être utilisée dans le chemin, selon qu'une instance de ressource ou une collection est accédée.

## Exemple

- Chemin de ressource

En fonction de la structure présentée ci-dessus, un chemin type vers un noeud final est :  
`/accounts/{account_id}/core/v1/users.`

- URL complète

L'URL complète du noeud final correspondant est :  
`https://astra.netapp.io/accounts/{account_id}/core/v1/users.`

## Ressources et terminaux

Vous pouvez accéder aux ressources fournies par l'API REST Astra Control pour automatiser le déploiement d'Astra. Chaque ressource est disponible via un ou plusieurs terminaux. Vous trouverez ci-dessous une présentation des ressources REST que vous pouvez utiliser dans le cadre d'un déploiement d'automatisation.



Le format du chemin et de l'URL complète utilisés pour accéder aux ressources de contrôle Astra est basé sur plusieurs valeurs. Voir "[Format d'URL](#)" pour en savoir plus. Voir aussi "[Référence d'API en ligne](#)" Pour en savoir plus sur l'utilisation des ressources et des terminaux Astra,

## Résumé des ressources REST d'Astra Control

Les principaux terminaux de ressources de l'API REST Astra Control sont organisés en trois catégories. Chaque ressource est accessible avec l'ensemble complet des opérations CRUD (création, lecture, mise à jour, suppression) sauf mention contraire.

La colonne **version** indique la version d'Astra lorsque la ressource a été introduite pour la première fois. Ce champ est en gras pour les ressources les plus récemment ajoutées à l'API REST.

### Ressources centrales

Les terminaux de ressources de base fournissent les services de base nécessaires pour établir et maintenir l'environnement d'exécution Astra.

Ressource	Relâchez	Description
Compte	21.12	Les ressources de compte vous permettent de gérer les locataires isolés dans l'environnement de déploiement Astra Control mutualisé.
ASUP	21.08	Les ressources ASUP représentent les packs AutoSupport transférés au support NetApp.
Certificat	22.08	Les ressources de certificat représentent les certificats installés utilisés pour une authentification forte pour les connexions sortantes.
Informations d'identification	21.04	Les ressources de identifiants NetApp contiennent des informations relatives à la sécurité qui peuvent être utilisées avec les utilisateurs Astra, les clusters, les compartiments et les systèmes back-end de stockage.

<b>Ressource</b>	<b>Relâchez</b>	<b>Description</b>
Droits	21.08	Les ressources d'abonnement représentent les fonctions et capacités disponibles pour un compte en fonction des licences et des abonnements actifs.
Événement	21.04	Les ressources d'événements représentent tous les événements se produisant dans le système, y compris le sous-ensemble classé comme notifications.
Crochet d'exécution	21.12	Les ressources de hook d'exécution représentent des scripts personnalisés que vous pouvez exécuter avant ou après l'exécution d'un snapshot d'une application gérée.
Fonction	21.08	Les ressources de fonctionnalités représentent les fonctions Astra sélectionnées que vous pouvez interroger pour déterminer si elles sont activées ou désactivées dans le système. L'accès est limité en lecture seule.
Groupe	22.08	Les ressources du groupe représentent les groupes Astra et les ressources associées. Seuls les groupes LDAP sont pris en charge dans la version actuelle.
Source du crochet	21.12	Les ressources de la source de hook représentent le code source réel utilisé avec un crochet d'exécution. La séparation du code source et du contrôle d'exécution présente plusieurs avantages, tels que la possibilité de partager les scripts.
Groupe LDAP	22.1	Vous pouvez lister les groupes au sein du serveur LDAP configuré. L'accès aux groupes LDAP est en lecture seule.
Utilisateur LDAP	22.11	Vous pouvez lister les utilisateurs au sein du serveur LDAP configuré. L'accès aux utilisateurs LDAP est en lecture seule.
Licence	21.08	Les ressources de licence représentent les licences disponibles pour un compte Astra.
Notification	21.04	Les ressources de notification représentent les événements Astra qui ont une destination de notification. L'accès est fourni par utilisateur.
Création de package	22.04	Les ressources du package fournissent l'enregistrement et l'accès aux définitions de package. Les logiciels sont constitués de divers composants, notamment des fichiers, des images et d'autres artefacts.
Autorisations	23.06	Les ressources d'autorisation représentent les autorisations liées aux opérations au sein du système. L'API fournit un accès en lecture seule aux autorisations.
Rôle	23.06	Les ressources de rôle représentent les rôles disponibles dans le système. L'API fournit un accès en lecture seule aux rôles.
Liaison de rôles	21.04	Les ressources liées au rôle représentent les relations entre des paires spécifiques d'utilisateurs et de comptes. En plus du lien entre les deux, un ensemble d'autorisations est spécifié pour chaque à l'aide d'un rôle spécifique.
Réglage	21.08	Les ressources de définition représentent un ensemble de paires de clé-valeur qui décrivent une fonction pour un compte Astra spécifique.
Abonnement	21.08	Les ressources d'abonnement représentent les abonnements actifs pour un compte Astra.

Ressource	Relâchez	Description
Tâche	22.11	Les ressources de tâche fournissent un accès en lecture seule à la tâche gérée et peuvent être utilisées pour afficher l'état des tâches internes longues.
Jeton	21.04	Les ressources de token représentent les jetons disponibles pour accéder par programmation à l'API REST Astra Control.
Notification non lue	21.04	Les ressources de notification non lues représentent les notifications affectées à un utilisateur spécifique, mais pas encore lues.
Mise à niveau	22.04	Les ressources de mise à niveau permettent d'accéder aux composants logiciels et de lancer des mises à niveau.
Utilisateur	21.04	Les ressources utilisateur représentent les utilisateurs d'Astra qui ont accès au système en fonction de leur rôle défini.

### Ressources applicatives gérées

Les terminaux de ressources d'application gérée permettent d'accéder aux applications Kubernetes gérées.

Ressource	Relâchez	Description
Ressources applicatives	21.04	Les ressources d'application représentent les ensembles internes d'informations d'état nécessaires à la gestion des applications Astra.
Sauvegarde des applications	21.04	Les ressources de sauvegarde de l'application représentent les sauvegardes des applications gérées.
Snapshot de l'application	21.04	Les ressources de snapshot de l'application représentent les snapshots des applications gérées.
Remplacement du crochet d'exécution	21.12	Les ressources de remplacement du crochet d'exécution vous permettent de désactiver les crochets d'exécution NetApp par défaut préchargés pour des applications spécifiques, selon vos besoins.
Planification	21.04	Les ressources de planification correspondent aux opérations de protection des données planifiées pour les applications gérées dans le cadre d'une stratégie de protection des données.

### Ressources de topologie

Les points de terminaison de ressource de topologie fournissent un accès aux applications non gérées et aux ressources de stockage.

Ressource	Relâchez	Description
Ressource API	22.11	Les terminaux de ressource API fournissent un accès en lecture seule aux ressources Kubernetes dans un cluster géré spécifique.
Appli	21.04	Les ressources d'application représentent toutes les applications Kubernetes, y compris celles qui ne sont pas gérées par Astra.
AppMirror	22.08	Les ressources AppMirror représentent les ressources AppMirror pour la gestion des relations de mise en miroir des applications.

Ressource	Relâchez	Description
Godet	21.08	Les ressources de compartiment représentent les compartiments cloud S3 utilisés pour stocker les sauvegardes des applications gérées par Astra.
Le cloud	21.08	Les ressources cloud sont des clouds avec lesquels les clients Astra peuvent se connecter pour gérer les clusters et les applications.
Cluster	21.08	Les ressources en cluster représentent les clusters Kubernetes qui ne sont pas gérés par Kubernetes.
Nœud de cluster	21.12	Les ressources des nœuds de cluster apportent une résolution supplémentaire en vous permettant d'accéder aux nœuds individuels dans un cluster Kubernetes.
Cluster géré	21.08	Les ressources du cluster géré représentent les clusters Kubernetes actuellement gérés par Kubernetes.
Espace de noms	21.12	Les ressources d'espace de noms permettent d'accéder aux espaces de noms utilisés dans un cluster Kubernetes.
Système back-end	21.08	Les ressources de stockage back-end représentent des fournisseurs de services de stockage utilisables par les clusters et les applications gérés Astra.
Classe de stockage	21.08	Les ressources de classe de stockage représentent différents types ou classes de stockage détectés et disponibles pour un cluster géré spécifique.
Volumétrie	21.04	Les ressources de volume représentent les volumes de stockage Kubernetes associés aux applications gérées.

## Ressources supplémentaires et terminaux

Vous pouvez utiliser plusieurs ressources et terminaux supplémentaires pour prendre en charge un déploiement Astra,



Ces ressources et ces terminaux ne sont pas inclus dans la documentation de référence de l'API REST Astra Control.

### OpenAPI

Les nœuds finaux OpenAPI donnent accès au document JSON OpenAPI actuel et à d'autres ressources associées.

### OpenMetrics

Les nœuds finaux OpenMetrics fournissent un accès aux mesures du compte via la ressource OpenMetrics. Il est proposé avec le modèle de déploiement d'Astra Control Center.

## Autres considérations

### Sécurité RBAC

L'API REST Astra prend en charge le contrôle d'accès basé sur des rôles (RBAC) pour accorder et restreindre l'accès aux fonctions du système.

## Rôles d'Astra

Chaque utilisateur Astra est affecté à un seul rôle qui détermine les actions qui peuvent être exécutées. Les rôles sont classés dans une hiérarchie comme décrit dans le tableau ci-dessous.

Rôle	Description
Propriétaire	Dispose de toutes les autorisations du rôle d'administrateur et peut également supprimer des comptes Astra.
Admin	Dispose de toutes les autorisations du rôle membre et peut également inviter des utilisateurs à rejoindre un compte.
Membre	Peut gérer entièrement l'application Astra et les ressources de calcul.
Visualiseur	Limité à l'affichage des ressources uniquement.

## RBAC amélioré avec granularité de l'espace de noms



Cette fonctionnalité a été introduite avec la version 22.04 de l'API REST d'Astra.

Lorsqu'une liaison de rôle est établie pour un utilisateur spécifique, une contrainte peut être appliquée pour limiter les espaces de noms à lesquels l'utilisateur a accès. Il existe plusieurs façons de définir cette contrainte comme décrit dans le tableau ci-dessous. Voir le paramètre `roleConstraints` Dans l'API de liaison de rôles pour plus d'informations.

Espaces de noms	Description
Tout	L'utilisateur peut accéder à tous les espaces de noms via le paramètre générique "*". Il s'agit de la valeur par défaut pour maintenir la compatibilité descendante.
Aucune	La liste des contraintes est spécifiée, bien qu'elle soit vide. Cela indique que l'utilisateur ne peut accéder à aucun espace de noms.
Liste d'espace de noms	L'UUID d'un namespace est inclus dans ce document qui limite l'utilisateur à un seul namespace. Une liste séparée par des virgules peut également être utilisée pour permettre l'accès à plusieurs espaces de noms.
Étiquette	Une étiquette est spécifiée et l'accès à tous les espaces de noms correspondants est autorisé.

## Travailler avec les collections

L'API REST Astra Control offre plusieurs façons d'accéder aux collections de ressources via les paramètres de requête définis.

### Sélection de valeurs

Vous pouvez spécifier les paires clé-valeur qui doivent être renvoyées pour chaque instance de ressource à l'aide de l' `include` paramètre. Toutes les instances sont renvoyées dans le corps de réponse.

### Filtrage

Le filtrage des ressources de collection permet à un utilisateur API de spécifier des conditions qui déterminent si une ressource est renvoyée dans le corps de réponse. Le `filter` le paramètre est utilisé pour indiquer la condition de filtrage.

## Tri

Le tri des ressources de collection permet à un utilisateur d'API de spécifier l'ordre dans lequel les ressources sont renvoyées dans le corps de réponse. Le `orderBy` le paramètre est utilisé pour indiquer la condition de filtrage.

## Pagination

Vous pouvez appliquer la pagination en limitant le nombre d'instances de ressources renvoyées sur une demande à l'aide de l' `limit` paramètre.

## Nombre

Si vous incluez le paramètre booléen `count` réglé sur `true`, le nombre de ressources du tableau renvoyé pour une réponse donnée est indiqué dans la section métadonnées.

## Diagnostics et support

Il existe plusieurs fonctions de prise en charge disponibles avec l'API REST Astra Control qui peuvent être utilisées pour le diagnostic et le débogage.

## Ressources API

Plusieurs fonctions Astra sont exposées via des ressources API qui fournissent des informations de diagnostic et une assistance.

Type	Description
Événement	Les activités du système enregistrées dans le cadre du traitement Astra.
Notification	Sous-ensemble des événements jugés suffisamment importants pour être présenté à l'utilisateur.
Notification non lue	Les notifications qui n'ont pas encore été lues ou récupérées par l'utilisateur.

## Révoquer un jeton API

Vous pouvez révoquer un jeton API dans l'interface Web Astra lorsqu'il n'est plus nécessaire.

### Avant de commencer

Vous avez besoin de identifiants pour vous connecter à l'interface utilisateur web d'Astra pour votre déploiement. Vous devez également identifier les jetons que vous souhaitez révoquer.

### Description de la tâche

Une fois le token révoqué, il est immédiatement et définitivement inutilisable.

### Étapes

1. Connectez-vous à Astra en utilisant les identifiants de votre compte comme suit :
  - a. ASTRA Control Service : "<https://astra.netapp.io>"
  - b. ASTRA Control Center : utilisez l'URL de votre environnement local tel qu'établi lors de l'installation
2. Cliquez sur l'icône figure en haut à droite de la page et sélectionnez **API Access**.
3. Sélectionnez le ou les jetons que vous souhaitez révoquer.



4. Dans la liste déroulante **actions**, cliquez sur **révoquer jetons**.

# Workflows d'infrastructure

## Avant de commencer

Vous pouvez utiliser ces workflows pour créer et entretenir l'infrastructure utilisée avec un déploiement d'Astra Control Center. Dans de nombreux cas, les flux de travail peuvent également être utilisés avec le service Astra Control.



Il est possible de développer et d'améliorer ces flux de travail par NetApp à tout moment, et nous vous recommandons de les consulter régulièrement.

## Préparation générale

Avant d'utiliser l'un des flux de travail Astra, veuillez à le lire "[Préparez l'utilisation des workflows](#)".

## Catégories de flux de travail

Les workflows d'infrastructure sont organisés selon différentes catégories, pour faciliter la localisation.

Catégorie	Description
Identité et accès	Ces flux de travail vous permettent de gérer les identités et d'accéder à Astra. Les ressources comprennent les utilisateurs, les informations d'identification et les jetons.
Configuration LDAP	Vous pouvez configurer Astra Control Center pour qu'il utilise LDAP pour authentifier les utilisateurs sélectionnés.
Clusters	Vous pouvez ajouter des clusters Kubernetes gérés, ce qui vous permet de protéger et de prendre en charge les applications qu'ils contiennent.
Cloud	Ces workflows permettent d'accéder aux clouds disponibles via l'API REST d'Astra Control.
Seaux	Vous pouvez utiliser ces workflows pour créer et gérer les compartiments S3 utilisés pour stocker les sauvegardes.
Stockage	Ces workflows permettent d'ajouter et de gérer des volumes et des systèmes back-end de stockage.

## Identité et accès

### Dressez la liste des utilisateurs

Vous pouvez lister les utilisateurs définis pour un compte Astra spécifique.

#### 1. Dressez la liste des utilisateurs

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/core/v1/users

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
inclure	Requête	Non	Sélectionner éventuellement les valeurs que vous souhaitez renvoyer dans la réponse.

### Exemple Curl : renvoie toutes les données pour tous les utilisateurs

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/users' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple Curl : renvoie le prénom, le nom et l'ID de tous les utilisateurs

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/users?include=first
Name,lastName,id' --header 'Accept: */*' --header 'Authorization: Bearer
<API_TOKEN>'
```

### Exemple de sortie JSON

```
{
  "items": [
    [
      "David",
      "Anderson",
      "844ec6234-11e0-49ea-8434-a992a6270ec1"
    ],
    [
      "Jane",
      "Cohen",
      "2a3e227c-fda7-4145-a86c-ed9aa0183a6c"
    ]
  ],
  "metadata": {}
}
```

## Créer un utilisateur

Vous pouvez créer un utilisateur avec des informations d'identification spécifiques et un rôle prédéfini. Vous pouvez également restreindre l'accès de l'utilisateur à des espaces de noms spécifiques.

### 1. Sélectionnez un nom d'utilisateur

Exécutez le flux de travail ["Répertorier les utilisateurs"](#) et sélectionnez un nom disponible qui n'est pas actuellement utilisé.

### 2. Créez l'utilisateur

Effectuez l'appel de l'API REST suivant pour créer un utilisateur. Une fois l'appel terminé, le nouvel utilisateur ne sera pas encore utilisable.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/users

### Exemple d'entrée JSON

```
{
  "type" : "application/astra-user",
  "version" : "1.1",
  "firstName" : "John",
  "lastName" : "West",
  "email" : "jwest@example.com"
}
```

### Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/users' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data
@JSONinput
```

### Exemple de sortie JSON

```

{
  "metadata": {
    "creationTimestamp": "2022-11-20T17:23:15Z",
    "modificationTimestamp": "2022-11-20T17:23:15Z",
    "createdBy": "a20e91f3-2c49-443b-b240-615d940ec5f3",
    "labels": []
  },
  "type": "application/astra-user",
  "version": "1.2",
  "id": "d07dac0a-a328-4840-a216-12de16bbd484",
  "authProvider": "local",
  "authID": "jwest@example.com",
  "firstName": "John",
  "lastName": "West",
  "companyName": "",
  "email": "jwest@example.com",
  "postalAddress": {
    "addressCountry": "",
    "addressLocality": "",
    "addressRegion": "",
    "streetAddress1": "",
    "streetAddress2": "",
    "postalCode": ""
  },
  "state": "active",
  "sendWelcomeEmail": "false",
  "isEnabled": "true",
  "isInviteAccepted": "true",
  "enableTimestamp": "2022-11-20T17:23:15Z",
  "lastActTimestamp": ""
}

```

### 3. Sélectionner éventuellement les espaces de noms autorisés

Exécutez le flux de travail ["Lister les espaces de noms"](#) et sélectionnez les espaces de noms auxquels vous souhaitez limiter l'accès.

### 4. Lier l'utilisateur à un rôle

Exécutez l'appel d'API REST suivant pour lier l'utilisateur à un rôle. L'exemple ci-dessous n'impose aucune restriction sur l'accès à l'espace de noms. Voir ["RBAC amélioré avec granularité de l'espace de noms"](#) pour en savoir plus.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/core/v1/roleBindings

## Exemple d'entrée JSON

```
{
  "type" : "application/astra-roleBinding",
  "version" : "1.1",
  "userID" : "d07dac0a-a328-4840-a216-12de16bbd484",
  "accountID" : "29e1f39f-2bf4-44ba-a191-5b84ef414c95",
  "role" : "viewer",
  "roleConstraints": [ "*" ]
}
```

## Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/roleBindings'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data
@JSONinput
```

### 5. Créez une information d'identification

Effectuez l'appel de l'API REST suivant pour créer un identifiant et l'associer à l'utilisateur. Dans cet exemple, un mot de passe est fourni sous la forme d'une valeur base64. Le `name` La propriété doit contenir l'ID de l'utilisateur renvoyé à l'étape précédente. La propriété d'entrée `change` doit également être encodé en base64 et déterminer si l'utilisateur doit modifier son mot de passe lors de la première connexion (`true` ou `false`).



Cette étape est uniquement requise avec les déploiements Astra Control Center utilisant l'authentification locale. Il n'est pas nécessaire de déployer Astra Control Center avec LDAP ou avec Astra Control Service.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/credentials

## Exemple d'entrée JSON

```
{
  "type" : "application/astra-credential",
  "version" : "1.1",
  "name" : "d07dac0a-a328-4840-a216-12de16bbd484",
  "keyType" : "passwordHash",
  "keyStore" : {
    "cleartext" : "TmV0QXBwMTIz",
    "change" : "ZmFsc2U="
  },
  "valid" : "true"
}
```

### Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/credentials'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data
@JSONinput
```

## Configuration LDAP

### Préparez la configuration LDAP

Vous pouvez intégrer Astra Control Center avec un serveur LDAP (Lightweight Directory Access Protocol) pour effectuer l'authentification pour certains utilisateurs Astra. LDAP est un protocole standard de l'industrie pour l'accès aux informations d'annuaires distribués et un choix populaire pour l'authentification d'entreprise.

#### Informations associées

- ["Spécification technique LDAP feuille de route"](#)
- ["LDAP version 3"](#)

#### Aperçu du processus de mise en œuvre

À un niveau élevé, il existe plusieurs étapes à suivre pour configurer un serveur LDAP afin de fournir une authentification aux utilisateurs d'Astra.



Bien que les étapes présentées ci-dessous se trouvent dans une séquence, vous pouvez dans certains cas les exécuter dans un ordre différent. Par exemple, vous pouvez définir les utilisateurs et les groupes Astra avant de configurer le serveur LDAP.

1. Révision ["Exigences et restrictions"](#) connaître les options, les exigences et les limites.
2. Sélectionnez un serveur LDAP et les options de configuration souhaitées (y compris la sécurité).
3. Exécutez le flux de travail ["Configurez Astra pour qu'il utilise un serveur LDAP"](#) Pour intégrer Astra avec le

serveur LDAP.

4. Vérifiez les utilisateurs et les groupes du serveur LDAP pour vous assurer qu'ils sont correctement définis.
5. Exécutez le flux de travail approprié dans "[Ajoutez des entrées LDAP à Astra](#)" Identifier les utilisateurs à authentifier à l'aide de LDAP.

## Exigences et restrictions

Nous vous recommandons de consulter les éléments essentiels de configuration Astra présentés ci-dessous, y compris les limites et les options de configuration, avant de configurer Astra pour utiliser LDAP pour l'authentification.

### Uniquement pris en charge avec Astra Control Center

La plateforme Astra Control propose deux modèles de déploiement. L'authentification LDAP est prise en charge uniquement avec les déploiements d'Astra Control Center.

### Configuration via l'API REST ou l'interface utilisateur Web

La version actuelle d'Astra Control Center prend en charge la configuration de l'authentification LDAP à l'aide de l'API REST Astra Control et de l'interface utilisateur Web Astra.

### Serveur LDAP requis

Vous devez disposer d'un serveur LDAP pour accepter et traiter les demandes d'authentification Astra. Microsoft Active Directory est pris en charge avec la version actuelle d'Astra Control Center.

### Connexion sécurisée au serveur LDAP

Lors de la configuration du serveur LDAP dans Astra, vous pouvez éventuellement définir une connexion sécurisée. Dans ce cas, un certificat est nécessaire pour le protocole LDAPS.

### Configurer des utilisateurs ou des groupes

Vous devez sélectionner les utilisateurs à authentifier à l'aide de LDAP. Pour ce faire, vous pouvez identifier les utilisateurs individuels ou un groupe d'utilisateurs. Les comptes doivent être définis au niveau du serveur LDAP. Elles doivent également être identifiées dans Astra (type LDAP) qui permet de transférer les demandes d'authentification vers LDAP.

### Contrainte de rôle lors de la liaison d'un utilisateur ou d'un groupe

Avec la version actuelle d'Astra Control Center, la seule valeur prise en charge pour `roleConstraint` est `""`. Cela indique que l'utilisateur n'est pas limité à un ensemble limité d'espaces de noms et qu'il peut y accéder tous. Voir "[Ajoutez des entrées LDAP à Astra](#)" pour en savoir plus.

### Informations d'identification LDAP

Les informations d'identification utilisées par LDAP incluent le nom d'utilisateur (adresse e-mail) et le mot de passe associé.

### Adresses e-mail uniques

Toutes les adresses e-mail agissant comme noms d'utilisateur dans un déploiement Astra Control Center doivent être uniques. Vous ne pouvez pas ajouter un utilisateur LDAP avec une adresse e-mail déjà définie pour Astra. Si un e-mail en double existe, vous devez d'abord le supprimer d'Astra. Voir "[Supprimer des utilisateurs](#)" Sur le site de documentation Astra Control Center pour plus d'informations.

### Vous pouvez éventuellement définir d'abord les utilisateurs et les groupes LDAP

Vous pouvez ajouter les utilisateurs et groupes LDAP au Centre de contrôle Astra même s'ils n'existent pas encore dans LDAP ou si le serveur LDAP n'est pas configuré. Cela vous permet de préconfigurer les utilisateurs et les groupes avant de configurer le serveur LDAP.



## Utilisateur défini dans plusieurs groupes LDAP

Si un utilisateur LDAP appartient à plusieurs groupes LDAP et que des rôles différents ont été attribués aux groupes dans Astra, le rôle effectif de l'utilisateur lors de l'authentification sera le plus privilégié. Par exemple, si un utilisateur est affecté à l' `viewer` rôle avec `groupe1` mais a le `member` rôle dans le groupe 2, le rôle de l'utilisateur serait `member`. Ceci est basé sur la hiérarchie utilisée par Astra (la plus haute à la plus basse) :

- Propriétaire
- Admin
- Membre
- Visualiseur

## Synchronisation périodique du compte

Astra synchronise ses utilisateurs et groupes avec le serveur LDAP environ toutes les 60 secondes. Par conséquent, si un utilisateur ou un groupe est ajouté à LDAP ou supprimé, il peut prendre jusqu'à une minute avant qu'il soit disponible dans Astra.

## Désactivation et réinitialisation de la configuration LDAP

Avant de tenter de réinitialiser la configuration LDAP, vous devez d'abord désactiver l'authentification LDAP. De même, pour modifier le serveur LDAP (`connectionHost`), vous devez effectuer les deux opérations. Voir "[Désactivez et réinitialisez LDAP](#)" pour en savoir plus.

## Paramètres de l'API REST

Les workflows de configuration LDAP appellent l'API REST pour accomplir des tâches spécifiques. Chaque appel API peut inclure des paramètres d'entrée comme indiqué dans les échantillons fournis. Voir "[Référence d'API en ligne](#)" pour plus d'informations sur la localisation de la documentation de référence.

## Configurez Astra pour qu'il utilise un serveur LDAP

Vous devez sélectionner un serveur LDAP et configurer Astra pour qu'il utilise le serveur en tant que fournisseur d'authentification. La tâche de configuration comprend les étapes décrites ci-dessous. Chaque étape inclut un appel d'API REST unique.

### 1. Ajoutez un certificat CA

Effectuez l'appel d'API REST suivant pour ajouter un certificat d'autorité de certification à Astra.



Cette étape est facultative et requise uniquement si vous voulez qu'Astra et le LDAP communiquent via un canal sécurisé à l'aide de LDAPS.

Méthode HTTP	Chemin
POST	<code>/accounts/{account_id}/core/v1/certificats</code>

### Exemple d'entrée JSON

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "certUse": "rootCA",
  "cert": "LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUMyVEN",
  "isSelfSigned": "true"
}
```

Notez les informations suivantes concernant les paramètres d'entrée :

- `cert` Est une chaîne JSON contenant un certificat au format PKCS-11 codé en base64 (codé PEM).
- `isSelfSigned` doit être réglé sur `true` si le certificat est auto-signé. La valeur par défaut est `false`.

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/certificates'
--header 'Content-Type: application/astra-certificate+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```

{
  "type": "application/astra-certificate",
  "version": "1.0",
  "id": "a5212e7e-402b-4cff-bba0-63f3c6505199",
  "certUse": "rootCA",
  "cert": "LS0tLS1CRUdJTtiBDRVJUSUZJQ0FURS0tLS0tCk1JSUMyVEN",
  "cn": "adldap.example.com",
  "expiryTimestamp": "2023-07-08T20:22:07Z",
  "isSelfSigned": "true",
  "trustState": "trusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted",
        "expired"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted",
        "expired"
      ]
    },
    {
      "from": "expired",
      "to": [
        "untrusted",
        "trusted"
      ]
    }
  ],
  "trustStateDesired": "trusted",
  "trustStateDetails": [],
  "metadata": {
    "creationTimestamp": "2022-07-21T04:16:06Z",
    "modificationTimestamp": "2022-07-21T04:16:06Z",
    "createdBy": "8a02d2b8-a69d-4064-827f-36851b3e1e6e",
    "modifiedBy": "8a02d2b8-a69d-4064-827f-36851b3e1e6e",
    "labels": []
  }
}

```

## 2. Ajoutez les informations d'identification de liaison

Effectuez l'appel d'API REST suivant pour ajouter les informations d'identification de liaison.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/credentials

### Exemple d'entrée JSON

```
{
  "name": "ldapBindCredential",
  "type": "application/astra-credential",
  "version": "1.1",
  "keyStore": {
    "bindDn": "dWlkPWFkbWluLG91PXM5c3RlbQ==",
    "password": "cGFzc3dvcmQ="
  }
}
```

Notez les informations suivantes concernant les paramètres d'entrée :

- `bindDn` et `password` Sont les informations d'identification de liaison codées en base64 de l'utilisateur admin LDAP qui peut se connecter et rechercher dans le répertoire LDAP. `bindDn` Est l'adresse e-mail de l'utilisateur LDAP.

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/credentials'
--header 'Content-Type: application/astra-credential+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```

{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
  "name": "ldapBindCredential",
  "metadata": {
    "creationTimestamp": "2022-07-21T06:53:11Z",
    "modificationTimestamp": "2022-07-21T06:53:11Z",
    "createdBy": "527329f2-662c-41c0-ada9-2f428f14c137"
  }
}

```

Noter les paramètres de réponse suivants :

- Le `id` des informations d'identification sont utilisées dans les étapes suivantes du flux de travail.

### 3. Récupérez l'UUID du paramètre LDAP

Exécutez l'appel de l'API REST suivant pour récupérer l'UUID du `astra.account.ldap` Réglage inclus avec le centre de contrôle Astra.



L'exemple curl ci-dessous utilise un paramètre de requête pour filtrer la collection de paramètres. Vous pouvez à la place supprimer le filtre pour obtenir tous les paramètres, puis rechercher `astra.account.ldap`.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/core/v1/settings

### Exemple de boucle

```

curl --location -i --request GET
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/settings?filter=name%20eq%20'astra.account.ldap'&include=name,id' --header 'Accept: */*'
--header 'Authorization: Bearer <API_TOKEN>'

```

### Exemple de réponse JSON

```

{
  "items": [
    ["astra.account.ldap",
     "12072b56-e939-45ec-974d-2dd83b7815df"]
  ],
  "metadata": {}
}

```

#### 4. Mettez à jour le paramètre LDAP

Effectuez l'appel d'API REST suivant pour mettre à jour le paramètre LDAP et terminer la configuration. Utilisez le id Valeur de l'appel API précédent pour le <SETTING\_ID> Valeur dans le chemin d'accès à l'URL ci-dessous.



Vous pouvez d'abord lancer une demande GET pour le paramètre spécifique afin de voir le schéma de configuration. Ceci fournira plus d'informations sur les champs requis dans la configuration.

Méthode HTTP	Chemin
EN	/accounts/{account_id}/core/v1/settings/{setting_id}

#### Exemple d'entrée JSON

```

{
  "type": "application/astra-setting",
  "version": "1.0",
  "desiredConfig": {
    "connectionHost": "myldap.example.com",
    "credentialId": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
    "groupBaseDN": "OU=groups,OU=astra,DC=example,DC=com",
    "isEnabled": "true",
    "port": 686,
    "secureMode": "LDAPS",
    "userBaseDN": "OU=users,OU=astra,DC=example,dc=com",
    "userSearchFilter": "((objectClass=User))",
    "vendor": "Active Directory"
  }
}

```

Notez les informations suivantes concernant les paramètres d'entrée :

- isEnabled doit être réglé sur true ou une erreur peut se produire.

- `credentialId` est l'id des informations d'identification de liaison créées précédemment.
- `secureMode` doit être réglé sur LDAP ou LDAPS en fonction de votre configuration à l'étape précédente.
- Seul Active Directory est pris en charge en tant que fournisseur.

### Exemple de boucle

```
curl --location -i --request PUT --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/settings/<SETTING_ID>' --header 'Content-Type: application/astra-setting+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

Si l'appel a réussi, la réponse HTTP 204 est renvoyée.

### 5. Récupérez le paramètre LDAP

Vous pouvez éventuellement effectuer l'appel d'API REST suivant pour récupérer les paramètres LDAP et confirmer la mise à jour.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/core/v1/settings/{setting_id}

### Exemple de boucle

```
curl --location -i --request GET
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/settings/<SETTING_ID>' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```
{
  "items": [
    {
      "type": "application/astra-setting",
      "version": "1.0",
      "metadata": {
        "creationTimestamp": "2022-06-17T21:16:31Z",
        "modificationTimestamp": "2022-07-21T07:12:20Z",
        "labels": [],
        "createdBy": "system",
        "modifiedBy": "00000000-0000-0000-0000-000000000000"
      },
      "id": "12072b56-e939-45ec-974d-2dd83b7815df",
      "name": "astra.account.ldap",
    }
  ]
}
```

```

"desiredConfig": {
  "connectionHost": "10.193.61.88",
  "credentialId": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
  "groupBaseDN": "ou=groups,ou=astra,dc=example,dc=com",
  "isEnabled": "true",
  "port": 686,
  "secureMode": "LDAPS",
  "userBaseDN": "ou=users,ou=astra,dc=example,dc=com",
  "userSearchFilter": "((objectClass=User))",
  "vendor": "Active Directory"
},
"currentConfig": {
  "connectionHost": "10.193.160.209",
  "credentialId": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
  "groupBaseDN": "ou=groups,ou=astra,dc=example,dc=com",
  "isEnabled": "true",
  "port": 686,
  "secureMode": "LDAPS",
  "userBaseDN": "ou=users,ou=astra,dc=example,dc=com",
  "userSearchFilter": "((objectClass=User))",
  "vendor": "Active Directory"
},
"configSchema": {
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "astra.account.ldap",
  "type": "object",
  "properties": {
    "connectionHost": {
      "type": "string",
      "description": "The hostname or IP address of your LDAP server."
    },
    "credentialId": {
      "type": "string",
      "description": "The credential ID for LDAP account."
    },
    "groupBaseDN": {
      "type": "string",
      "description": "The base DN of the tree used to start the group
search. The system searches the subtree from the specified location."
    },
    "groupSearchCustomFilter": {
      "type": "string",
      "description": "Type of search that controls the default group
search filter used."
    },
    "isEnabled": {

```



```

    "type": "string",
    "description": "This property determines if this setting is
enabled or not."
  },
  "port": {
    "type": "integer",
    "description": "The port on which the LDAP server is running."
  },
  "secureMode": {
    "type": "string",
    "description": "The secure mode LDAPS or LDAP."
  },
  "userBaseDN": {
    "type": "string",
    "description": "The base DN of the tree used to start the user
search. The system searches the subtree from the specified location."
  },
  "userSearchFilter": {
    "type": "string",
    "description": "The filter used to search for users according a
search criteria."
  },
  "vendor": {
    "type": "string",
    "description": "The LDAP provider you are using.",
    "enum": ["Active Directory"]
  }
},
"additionalProperties": false,
"required": [
  "connectionHost",
  "secureMode",
  "credentialId",
  "userBaseDN",
  "userSearchFilter",
  "groupBaseDN",
  "vendor",
  "isEnabled"
]
},
"state": "valid",
}
],
"metadata": {}
}

```

Localisez le `state` champ de la réponse qui contient l'une des valeurs du tableau ci-dessous.

État	Description
en attente	Le processus de configuration est toujours actif et n'est pas encore terminé.
valide	La configuration a été effectuée avec succès et <code>currentConfig</code> la réponse correspond <code>desiredConfig</code> .
erreur	Le processus de configuration LDAP a échoué.

## Ajoutez des entrées LDAP à Astra

Après avoir configuré LDAP en tant que fournisseur d'authentification pour Astra Control Center, vous pouvez sélectionner les utilisateurs LDAP qu'Astra authentifie à l'aide des informations d'identification LDAP. Chaque utilisateur doit avoir un rôle dans Astra avant d'avoir accès à Astra via l'API REST Astra Control.

Il existe deux façons de configurer Astra pour affecter des rôles. Choisissez celle qui convient le mieux à votre environnement.

- ["Ajouter et lier un utilisateur individuel"](#)
- ["Ajouter et lier un groupe"](#)



Les informations d'identification LDAP se présentent sous la forme d'un nom d'utilisateur sous la forme d'une adresse e-mail et du mot de passe LDAP associé.

### Ajouter et lier un utilisateur individuel

Vous pouvez attribuer un rôle à chaque utilisateur Astra qui est utilisé après l'authentification LDAP. Ceci est approprié lorsqu'il y a un petit nombre d'utilisateurs et que chacun peut avoir des caractéristiques administratives différentes.

#### 1. Ajoutez un utilisateur

Effectuez l'appel d'API REST suivant pour ajouter un utilisateur à Astra et indiquer que LDAP est le fournisseur d'authentification.

Méthode HTTP	Chemin
POST	<code>/accounts/{account_id}/core/v1/users</code>

### Exemple d'entrée JSON

```
{
  "type" : "application/astra-user",
  "version" : "1.1",
  "authID" : "cn=JohnDoe,ou=users,ou=astra,dc=example,dc=com",
  "authProvider" : "ldap",
  "firstName" : "John",
  "lastName" : "Doe",
  "email" : "john.doe@example.com"
}
```

Notez les informations suivantes concernant les paramètres d'entrée :

- Les paramètres suivants sont requis :
  - authProvider
  - authID
  - email
- authID Est le nom distinctif (DN) de l'utilisateur dans LDAP
- email Doit être unique pour tous les utilisateurs définis dans Astra

Si le email La valeur n'est pas unique, une erreur se produit et un code d'état HTTP 409 est renvoyé dans la réponse.

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/users' --header
'Content-Type: application/astra-user+json' --header 'Accept: */*'
--header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```

{
  "metadata": {
    "creationTimestamp": "2022-07-21T17:44:18Z",
    "modificationTimestamp": "2022-07-21T17:44:18Z",
    "createdBy": "8a02d2b8-a69d-4064-827f-36851b3e1e6e",
    "labels": []
  },
  "type": "application/astra-user",
  "version": "1.2",
  "id": "a7b5e674-a1b1-48f6-9729-6a571426d49f",
  "authProvider": "ldap",
  "authID": "cn=JohnDoe,ou=users,ou=astra,dc=example,dc=com",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "",
  "email": "john.doe@example.com",
  "postalAddress": {
    "addressCountry": "",
    "addressLocality": "",
    "addressRegion": "",
    "streetAddress1": "",
    "streetAddress2": "",
    "postalCode": ""
  },
  "state": "active",
  "sendWelcomeEmail": "false",
  "isEnabled": "true",
  "isInviteAccepted": "true",
  "enableTimestamp": "2022-07-21T17:44:18Z",
  "lastActTimestamp": ""
}

```

## 2. Ajoutez une liaison de rôle pour l'utilisateur

Effectuez l'appel de l'API REST suivant pour lier l'utilisateur à un rôle spécifique. Vous devez créer l'UUID de l'utilisateur à l'étape précédente.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/core/v1/roleBindings

### Exemple d'entrée JSON

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "accountID": "{account_id}",
  "userID": "a7b5e674-a1b1-48f6-9729-6a571426d49f",
  "role": "member",
  "roleConstraints": ["*"]
}
```

Notez les informations suivantes concernant les paramètres d'entrée :

- Valeur utilisée ci-dessus pour `roleConstraint` Est la seule option disponible pour la version actuelle d'Astra. Il indique que l'utilisateur n'est pas limité à un ensemble limité d'espaces de noms et peut y accéder tous.

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/roleBindings'
--header 'Content-Type: application/astra-roleBinding+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```
{
  "metadata": {
    "creationTimestamp": "2022-07-21T18:08:24Z",
    "modificationTimestamp": "2022-07-21T18:08:24Z",
    "createdBy": "8a02d2b8-a69d-4064-827f-36851b3e1e6e",
    "labels": []
  },
  "type": "application/astra-roleBinding",
  "principalType": "user",
  "version": "1.1",
  "id": "b02c7e4d-d483-40d1-aaff-e1f900312114",
  "userID": "a7b5e674-a1b1-48f6-9729-6a571426d49f",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "d0fdbfa7-be32-4a71-b59d-13d95b42329a",
  "role": "member",
  "roleConstraints": ["*"]
}
```

Notez les éléments suivants concernant les paramètres de réponse :

- La valeur `user` pour le `principalType` champ indique que la liaison du rôle a été ajoutée pour un utilisateur (et non pour un groupe).

## Ajouter et lier un groupe

Vous pouvez affecter un rôle à un groupe Astra qui est utilisé après l'authentification LDAP. Ceci est approprié lorsqu'il y a un grand nombre d'utilisateurs et que chacun peut avoir des caractéristiques administratives similaires.

### 1. Ajoutez un groupe

Effectuez l'appel d'API REST suivant pour ajouter un groupe à Astra et indiquer que LDAP est le fournisseur d'authentification.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/groupes

### Exemple d'entrée JSON

```
{
  "type": "application/astra-group",
  "version": "1.0",
  "name": "Engineering",
  "authProvider": "ldap",
  "authID": "CN=Engineering,OU=groups,OU=astra,DC=example,DC=com"
}
```

Notez les informations suivantes concernant les paramètres d'entrée :

- Les paramètres suivants sont requis :
  - `authProvider`
  - `authID`

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/groups' --header
'Content-Type: application/astra-group+json' --header 'Accept: */*'
--header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de réponse JSON

```

{
  "type": "application/astra-group",
  "version": "1.0",
  "id": "8b5b54da-ae53-497a-963d-1fc89990525b",
  "name": "Engineering",
  "authProvider": "ldap",
  "authID": "CN=Engineering,OU=groups,OU=astra,DC=example,DC=com",
  "metadata": {
    "creationTimestamp": "2022-07-21T18:42:52Z",
    "modificationTimestamp": "2022-07-21T18:42:52Z",
    "createdBy": "8a02d2b8-a69d-4064-827f-36851b3e1e6e",
    "labels": []
  }
}

```

## 2. Ajoutez une liaison de rôle pour le groupe

Effectuez l'appel d'API REST suivant pour lier le groupe à un rôle spécifique. Vous devez créer l'UUID du groupe à l'étape précédente. Les utilisateurs qui sont membres du groupe pourront se connecter à Astra une fois que LDAP aura effectué l'authentification.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/core/v1/roleBindings

### Exemple d'entrée JSON

```

{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "accountID": "{account_id}",
  "groupID": "8b5b54da-ae53-497a-963d-1fc89990525b",
  "role": "viewer",
  "roleConstraints": ["*"]
}

```

Notez les informations suivantes concernant les paramètres d'entrée :

- Valeur utilisée ci-dessus pour `roleConstraint` Est la seule option disponible pour la version actuelle d'Astra. Il indique que l'utilisateur n'est pas limité à certains espaces de noms et peut y accéder tous.

### Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/roleBindings'
--header 'Content-Type: application/astra-roleBinding+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Exemple de réponse JSON

```
{
  "metadata": {
    "creationTimestamp": "2022-07-21T18:59:43Z",
    "modificationTimestamp": "2022-07-21T18:59:43Z",
    "createdBy": "527329f2-662c-41c0-ada9-2f428f14c137",
    "labels": []
  },
  "type": "application/astra-roleBinding",
  "principalType": "group",
  "version": "1.1",
  "id": "2f91b06d-315e-41d8-ae18-7df7c08fbb77",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "8b5b54da-ae53-497a-963d-1fc89990525b",
  "accountID": "d0fdbfa7-be32-4a71-b59d-13d95b42329a",
  "role": "viewer",
  "roleConstraints": ["*"]
}
```

Noter les éléments suivants concernant les paramètres de réponse :

- La valeur `group` pour le `principalType` champ indique que la liaison de rôle a été ajoutée pour un groupe (et non pour un utilisateur).

## Désactivez et réinitialisez LDAP

Il existe deux tâches administratives facultatives, bien que liées, que vous pouvez effectuer selon vos besoins pour un déploiement de centre de contrôle Astra. Vous pouvez désactiver globalement l'authentification LDAP et réinitialiser la configuration LDAP.

Les deux tâches de flux de travail requièrent l'ID pour le `astra.account.ldap` Réglage Astra. Les détails sur la récupération de l'ID de paramètre sont inclus dans **configurer le serveur LDAP**. Voir ["Récupère l'UUID du paramètre LDAP"](#) pour en savoir plus.

- ["Désactivez l'authentification LDAP"](#)
- ["Réinitialisez la configuration de l'authentification LDAP"](#)



## Désactivez l'authentification LDAP

Vous pouvez effectuer l'appel d'API REST suivant pour désactiver globalement l'authentification LDAP pour un déploiement Astra spécifique. L'appel met à jour le `astra.account.ldap` réglage et `isEnabled` la valeur est définie sur `false`.

Méthode HTTP	Chemin
EN	/accounts/{account_id}/core/v1/settings/{setting_id}

### Exemple d'entrée JSON

```
{
  "type": "application/astra-setting",
  "version": "1.0",
  "desiredConfig": {
    "connectionHost": "myldap.example.com",
    "credentialId": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
    "groupBaseDN": "OU=groups,OU=astra,DC=example,DC=com",
    "isEnabled": "false",
    "port": 686,
    "secureMode": "LDAPS",
    "userBaseDN": "OU=users,OU=astra,DC=example,dc=com",
    "userSearchFilter": "((objectClass=User))",
    "vendor": "Active Directory"
  }
}
```

```
curl --location -i --request PUT --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/settings/<SETTING_ID>' --header 'Content-Type: application/astra-setting+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

Si l'appel a réussi, le HTTP 204 la réponse est renvoyée. Vous pouvez éventuellement récupérer à nouveau les paramètres de configuration pour confirmer la modification.

## Réinitialisez la configuration de l'authentification LDAP

Vous pouvez effectuer l'appel d'API REST suivant pour déconnecter Astra du serveur LDAP et réinitialiser la configuration LDAP dans Astra. L'appel met à jour le `astra.account.ldap` réglage et valeur de `connectionHost` est effacé.

La valeur de `isEnabled` doit également être défini sur `false`. Vous pouvez soit définir cette valeur avant d'effectuer l'appel de réinitialisation, soit dans le cadre de l'appel de réinitialisation. Dans le deuxième cas, `connectionHost` doit être effacé et `isEnabled` défini sur `false` lors du même appel de réinitialisation.



Il s'agit d'une opération perturbatrice et vous devez procéder avec précaution. Elle supprime tous les utilisateurs et groupes LDAP importés. Il supprime également tous les utilisateurs, groupes et liaisons Astra (type LDAP) associés que vous avez créés dans Astra Control Center.

Méthode HTTP	Chemin
EN	/accounts/{account_id}/core/v1/settings/{setting_id}

### Exemple d'entrée JSON

```
{
  "type": "application/astra-setting",
  "version": "1.0",
  "desiredConfig": {
    "connectionHost": "",
    "credentialId": "3bd9c8a7-f5a4-4c44-b778-90a85fc7d154",
    "groupBaseDN": "OU=groups,OU=astra,DC=example,DC=com",
    "isEnabled": "false",
    "port": 686,
    "secureMode": "LDAPS",
    "userBaseDN": "OU=users,OU=astra,DC=example,dc=com",
    "userSearchFilter": "((objectClass=User))",
    "vendor": "Active Directory"
  }
}
```

Notez ce qui suit :

- Pour modifier le serveur LDAP, vous devez à la fois désactiver et réinitialiser la modification LDAP connectHost à une valeur nulle comme indiqué dans l'exemple ci-dessus.

```
curl --location -i --request PUT --data @JSONinput
'https://astra.example.com/accounts/<ACCOUNT_ID>/core/v1/settings/<SETTING_ID>' --header 'Content-Type: application/astra-setting+json' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

Si l'appel a réussi, le HTTP 204 la réponse est renvoyée. Vous pouvez éventuellement récupérer à nouveau la configuration pour confirmer la modification.

## Clusters

### Lister les clusters

Vous pouvez afficher la liste des clusters disponibles dans un cloud spécifique.

## 1. Sélectionnez le nuage

Exécutez le flux de travail "Lister les clouds" et sélectionnez le cloud contenant les clusters.

## 2. Dresser la liste des clusters

Effectuez l'appel d'API REST suivant pour répertorier les clusters dans un cloud spécifique.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/topologique/v1/nuages/{cloud_id}/clusters

### Exemple Curl : renvoie toutes les données de tous les clusters

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/clouds/<CLOUD_ID>/clusters' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de sortie JSON

```
{
  "items": [
    {
      "type": "application/astra-cluster",
      "version": "1.1",
      "id": "7ce83fba-6aa1-4e0c-a194-26e714f5eb46",
      "name": "openshift-clstr-ol-07",
      "state": "running",
      "stateUnready": [],
      "managedState": "managed",
      "protectionState": "full",
      "protectionStateDetails": [],
      "restoreTargetSupported": "true",
      "snapshotSupported": "true",
      "managedStateUnready": [],
      "managedTimestamp": "2022-11-03T15:50:59Z",
      "inUse": "true",
      "clusterType": "openshift",
      "accHost": "true",
      "clusterVersion": "1.23",
      "clusterVersionString": "v1.23.12+6b34f32",
      "namespaces": [
        "default",
        "kube-node-lease",
        "kube-public",
```

```
"kube-system",
"metallb-system",
"mysql",
"mysql-clone1",
"mysql-clone2",
"mysql-clone3",
"mysql-clone4",
"netapp-acc-operator",
"netapp-monitoring",
"openshift",
"openshift-apiserver",
"openshift-apiserver-operator",
"openshift-authentication",
"openshift-authentication-operator",
"openshift-cloud-controller-manager",
"openshift-cloud-controller-manager-operator",
"openshift-cloud-credential-operator",
"openshift-cloud-network-config-controller",
"openshift-cluster-csi-drivers",
"openshift-cluster-machine-approver",
"openshift-cluster-node-tuning-operator",
"openshift-cluster-samples-operator",
"openshift-cluster-storage-operator",
"openshift-cluster-version",
"openshift-config",
"openshift-config-managed",
"openshift-config-operator",
"openshift-console",
"openshift-console-operator",
"openshift-console-user-settings",
"openshift-controller-manager",
"openshift-controller-manager-operator",
"openshift-dns",
"openshift-dns-operator",
"openshift-etcd",
"openshift-etcd-operator",
"openshift-host-network",
"openshift-image-registry",
"openshift-infra",
"openshift-ingress",
"openshift-ingress-canary",
"openshift-ingress-operator",
"openshift-insights",
"openshift-kni-infra",
"openshift-kube-apiserver",
"openshift-kube-apiserver-operator",
```

```

    "openshift-kube-controller-manager",
    "openshift-kube-controller-manager-operator",
    "openshift-kube-scheduler",
    "openshift-kube-scheduler-operator",
    "openshift-kube-storage-version-migrator",
    "openshift-kube-storage-version-migrator-operator",
    "openshift-machine-api",
    "openshift-machine-config-operator",
    "openshift-marketplace",
    "openshift-monitoring",
    "openshift-multus",
    "openshift-network-diagnostics",
    "openshift-network-operator",
    "openshift-node",
    "openshift-oauth-apiserver",
    "openshift-openstack-infra",
    "openshift-operator-lifecycle-manager",
    "openshift-operators",
    "openshift-ovirt-infra",
    "openshift-sdn",
    "openshift-service-ca",
    "openshift-service-ca-operator",
    "openshift-user-workload-monitoring",
    "openshift-vsphere-infra",
    "pcloud",
    "postgresql",
    "trident"
  ],
  "defaultStorageClass": "4bacbb3c-0727-4f58-b13c-3a2a069baf89",
  "cloudID": "4f1e1086-f415-4451-a051-c7299cd672ff",
  "credentialID": "7ffd7354-b6c2-4efa-8e7b-cf64d5598463",
  "isMultizonal": "false",
  "tridentManagedStateAllowed": [
    "unmanaged"
  ],
  "tridentVersion": "22.10.0",
  "apiServiceID": "98df44dc-2baf-40d5-8826-e198b1b40909",
  "metadata": {
    "labels": [
      {
        "name": "astra.netapp.io/labels/read-
only/cloudName",
        "value": "private"
      }
    ]
  },
  "creationTimestamp": "2022-11-03T15:50:59Z",

```

```
    "modificationTimestamp": "2022-11-04T14:42:32Z",  
    "createdBy": "00000000-0000-0000-0000-000000000000"  
  }  
}  
]  
}
```

## Ajouter un cluster à l'aide des informations d'identification

Vous pouvez ajouter un cluster pour qu'il soit géré par Astra. À compter de la version 22.11 de l'Astra, vous pouvez ajouter un groupe d'instruments avec le centre de contrôle Astra et le service de contrôle Astra.



L'ajout d'un cluster n'est pas nécessaire lors de l'utilisation d'un service Kubernetes depuis l'un des principaux fournisseurs cloud (AKS, EKS, GKE).

### 1. Procurez-vous le fichier kubeconfig

Vous devez obtenir une copie du fichier **kubeconfig** auprès de votre administrateur ou service Kubernetes.

### 2. Préparez le fichier kubeconfig

Avant d'utiliser le fichier **kubeconfig**, vous devez effectuer les opérations suivantes :

#### Convertir le fichier du format YAML au format JSON

Si vous recevez le fichier kubeconfig formaté en YAML, vous devez le convertir au format JSON.

#### Codage JSON en base64

Vous devez coder le fichier JSON en base64.

#### Exemple

Voici un exemple de conversion du fichier kubeconfig de YAML au JSON, puis de codage dans base64 :

```
yq -o=json ~/.kube/config | base64
```

### 3. Sélectionnez le Cloud

Exécutez le flux de travail "[Lister les clouds](#)" et sélectionnez le cloud dans lequel le cluster sera ajouté.



Le seul cloud que vous pouvez sélectionner est le **cloud privé**.

### 4. Créez une information d'identification

Effectuez l'appel de l'API REST suivant pour créer des informations d'identification à l'aide du fichier kubeconfig.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/credentials

## Exemple d'entrée JSON

```
{
  "type" : "application/astra-credential",
  "version" : "1.1",
  "name" : "Cloud One",
  "keyType" : "kubeconfig",
  "keyStore" : {
    "base64": encoded_kubeconfig
  },
  "valid" : "true"
}
```

## Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/credentials'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data
@JSONinput
```

## 5. Ajoutez le cluster

Effectuez l'appel d'API REST suivant pour ajouter le cluster au cloud. La valeur du `credentialID` Le champ de saisie est obtenu à partir de l'appel d'API REST à l'étape précédente.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/topologique/v1/nuages/{cloud_id}/clusters

## Exemple d'entrée JSON

```
{
  "type" : "application/astra-cluster",
  "version" : "1.1",
  "credentialID": credential_id
}
```

## Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topologie/v1/clouds/<CLOUD_ID>/clusters' --header 'Accept: */*' --header 'Authorization: Bearer
<API_TOKEN>' --data @JSONinput
```

## Répertoire des clusters gérés

Vous pouvez lister les clusters Kubernetes actuellement gérés par Astra.

### 1. Dressez la liste des clusters gérés

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/Accounts/{account_ID}/topologique/v1/managedclusters

### Exemple Curl : renvoie toutes les données de tous les clusters

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/managedClusters
' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Gérer un cluster

Vous pouvez gérer un cluster Kubernetes afin d'assurer la protection des données.

### 1. Sélectionnez le cluster à gérer

Exécutez le flux de travail "[Lister les clusters](#)" et sélectionnez le cluster souhaité. La propriété `managedState` du cluster doit être `unmanaged`.

### 2. Sélectionnez éventuellement la classe de stockage

Éventuellement, exécutez le flux de travail "[Répertoire des classes de stockage](#)" et sélectionnez la classe de stockage souhaitée.



Si vous ne fournissez pas de classe de stockage à l'appel pour gérer le cluster, votre classe de stockage par défaut sera utilisée.

### 3. Gérez le cluster

Effectuez l'appel d'API REST suivant pour gérer le cluster.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/topologique/v1/managedclusters

### Exemple d'entrée JSON



```
{
  "type": "application/astra-managedCluster",
  "version": "1.0",
  "id": "d0fdf455-4330-476d-bb5d-4d109714e07d"
}
```

### Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/managedClusters
' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
--data @JSONinput
```

## Cloud

### Lister les clouds

Vous pouvez répertorier les nuages définis et disponibles un compte Astra spécifique.

#### 1. Dresser la liste des clouds

Effectuez l'appel d'API REST suivant pour répertorier les clouds.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/topologie/v1/clouds

### Exemple de curl : retournez toutes les données de tous les clouds

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/clouds'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Seaux

### Répertorier les rubriques

Vous pouvez afficher la liste des compartiments S3 définis pour un compte Astra spécifique.

#### 1. Dressez la liste des compartiments

Effectuez l'appel suivant de l'API REST pour afficher la liste des compartiments.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/topologique/v1/seaux

### Exemple de gondolage : renvoie toutes les données de tous les compartiments

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/buckets'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Stockage

### Répertorier les classes de stockage

Vous pouvez afficher la liste des classes de stockage disponibles.

#### 1. Sélectionnez le nuage

Exécutez le flux de travail "[Lister les clouds](#)" et choisissez le cloud dans lequel vous travaillez.

#### 2. Sélectionnez le cluster

Exécutez le flux de travail "[Lister les clusters](#)" et sélectionnez le cluster.

#### 3. Énumérez les classes de stockage d'un cluster spécifique

Effectuez l'appel d'API REST suivant pour répertorier les classes de stockage d'un cluster et d'un cloud spécifiques.

Méthode HTTP	Chemin
OBTENEZ	/Accounts/{account_ID}/topologique/v1/nuages/<CLOUD_ID>/clusters/<CLUSTER_ID>/storageClasses

### Exemple Curl : renvoie toutes les données de toutes les classes de stockage

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/clouds/<CLOUD_ID>/clusters/<CLUSTER_ID>/storageClasses' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de sortie JSON

```
{
  "items": [
    {
```

```

    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "4bacbb3c-0727-4f58-b13c-3a2a069baf89",
    "name": "ontap-basic",
    "provisioner": "csi.trident.netapp.io",
    "available": "eligible",
    "allowVolumeExpansion": "true",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "Immediate",
    "isDefault": "true",
    "metadata": {
      "createdBy": "system",
      "creationTimestamp": "2022-10-26T05:16:19Z",
      "modificationTimestamp": "2022-10-26T05:16:19Z",
      "labels": []
    }
  },
  {
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "150fe657-4a42-47a3-abc6-5dafba3de8bf",
    "name": "thin",
    "provisioner": "kubernetes.io/vsphere-volume",
    "available": "ineligible",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "Immediate",
    "metadata": {
      "createdBy": "system",
      "creationTimestamp": "2022-10-26T04:46:08Z",
      "modificationTimestamp": "2022-11-04T14:58:19Z",
      "labels": []
    }
  },
  {
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "7c6a5c58-6a0d-4cb6-98a0-8202ad2de74a",
    "name": "thin-csi",
    "provisioner": "csi.vsphere.vmware.com",
    "available": "ineligible",
    "allowVolumeExpansion": "true",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "WaitForFirstConsumer",
    "metadata": {
      "createdBy": "system",
      "creationTimestamp": "2022-10-26T04:46:17Z",

```

```

        "modificationTimestamp": "2022-10-26T04:46:17Z",
        "labels": []
    }
},
{
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "7010ef09-92a5-4c90-a5e5-3118e02dc9a7",
    "name": "vsim-san",
    "provisioner": "csi.trident.netapp.io",
    "available": "eligible",
    "allowVolumeExpansion": "true",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "Immediate",
    "metadata": {
        "createdBy": "system",
        "creationTimestamp": "2022-11-03T18:40:03Z",
        "modificationTimestamp": "2022-11-03T18:40:03Z",
        "labels": []
    }
}
]
}

```

## Liste des systèmes back-end

Vous pouvez lister les systèmes back-end disponibles.

### 1. Dressez la liste des systèmes back-end

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/Accounts/{account_ID}/topologique/v1/storageBackends

### Exemple de curl : renvoie toutes les données pour tous les systèmes back-end

```

curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/storageBackends
' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'

```

### Exemple de sortie JSON

```

{
  "items": [
    {
      "backendCredentialsName": "10.191.77.177",
      "backendName": "myinchunhcluster-1",
      "backendType": "ONTAP",
      "backendVersion": "9.8.0",
      "configVersion": "Not applicable",
      "health": "Not applicable",
      "id": "46467c16-1585-4b71-8e7f-f0bc5ff9da15",
      "location": "nalab2",
      "metadata": {
        "createdBy": "4c483a7e-207b-4f9a-87b7-799a4629d7c8",
        "creationTimestamp": "2021-07-30T14:26:19Z",
        "modificationTimestamp": "2021-07-30T14:26:19Z"
      },
      "ontap": {
        "backendManagementIP": "10.191.77.177",
        "managementIPs": [
          "10.191.77.177",
          "10.191.77.179"
        ]
      },
      "protectionPolicy": "Not applicable",
      "region": "Not applicable",
      "state": "Running",
      "stateUnready": [],
      "type": "application/astra-storageBackend",
      "version": "1.0",
      "zone": "Not applicable"
    }
  ]
}

```

## Activez des pools ANF dynamiques pour les clusters autogérés

Lors de la sauvegarde d'une application gérée dans un cluster privé sur site doté d'un système back-end de stockage ANF, vous devez activer la fonctionnalité de pools ANF dynamiques. Pour ce faire, il faut fournir un ID d'abonnement à utiliser lors de l'extension et de la réduction des pools de capacité.



Les pools ANF dynamiques sont une fonctionnalité des applications gérées par Astra qui utilisent un système back-end de stockage Azure NetApp Files (ANF). Lors de la sauvegarde de ces applications, Astra multiplie et réduit automatiquement les pools de capacité auxquels les volumes persistants appartiennent par 1.5. Cela permet de s'assurer que l'espace disponible pour la sauvegarde est suffisant sans frais permanents supplémentaires. Voir "[Sauvegardes d'applications Azure](#)" pour en savoir plus.

### 1. Ajoutez l'identifiant d'abonnement Azure

Effectuez l'appel de l'API REST suivant.



Vous devez mettre à jour l'exemple d'entrée JSON en fonction de votre environnement, y compris l'ID d'abonnement et la valeur base64 du principal de service.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/core/v1/credentials

## Exemple d'entrée JSON

```
{
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "UGhpcyCpcyBhbiBleGFtcGxlLg==",
    "base64":
"fwogICAgJmFwcElkIjogIjY4ZmSiODFiLTU0YWYtNDdjNC04ZjUzLWE2NDdlZTUzMGZkZCIsc
iAgICAiZGlzcGxheU5hbWUiOiAic3AtYXN0cmEtZGV2LXFhIiwKICAgICJuYW11IjogImh0dHA
6Ly9zcC1hc3RyYS1kZXYtcWEiLAogICAgInBhc3N3b3JkIjogIlllLQThRfk9IVVJkZWZYM0pST
WJlLnUeFBleVE0UnNwTG9DcUJjazAiLAogICAgInRlbnFudCI6ICIwMTFjZGY2Yy03NTEyLTQ
3MDUtYjI0ZS03NzIxYWZkOGNhMzciLAogICAgInN1YnNjcmlwdGlvbklkIjogImIyMDAxNTVmL
TAWMWEtNDNiZS04N2JlLTNlZGRlODNhY2VmNCIKfQ=="
  },
  "name": "myCert",
  "type": "application/astra-credential",
  "version": "1.1",
  "metadata": {
    "labels": [
      {
        "name": "astra.netapp.io/labels/read-only/credType",
        "value": "service-account"
      },
      {
        "name": "astra.netapp.io/labels/read-only/cloudName",
        "value": "OCP"
      },
      {
        "name": "astra.netapp.io/labels/read-only/azure/subscriptionID",
        "value": "b212156f-001a-43be-87be-3edde83acef5"
      }
    ]
  }
}
```

## Exemple de boucle

```
curl --location -i --request POST --data @JSONinput
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/credentials'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
--header 'Content-Type: application/astra-credential+json'
```

### 2. Ajouter un seuil si nécessaire

Si nécessaire, vous devez ajouter un compartiment à l'application gérée.

### 3. Sauvegardez l'application gérée

Exécutez le flux de travail "[Créez une sauvegarde pour une application](#)". Le pool de capacité sur lequel se trouve le volume persistant d'origine se développe et diminue automatiquement.

### 4. Consultez le journal des événements

Les événements d'activité sont consignés pendant la sauvegarde. Exécutez le flux de travail "[Dressez la liste des notifications](#)" pour afficher les messages.



# Flux de travail de gestion

## Avant de commencer

Vous pouvez utiliser ces flux de travail dans le cadre de l'administration des applications dans un cluster géré Astra.



Il est possible de développer et d'améliorer ces flux de travail par NetApp à tout moment, et nous vous recommandons de les consulter régulièrement.

## Préparation générale

Avant d'utiliser l'un des flux de travail Astra, veuillez à le lire "[Préparez l'utilisation des workflows](#)".

## Catégories de flux de travail

Les flux de travail de gestion sont organisés en différentes catégories, afin de localiser plus facilement celui que vous souhaitez.

Catégorie	Description
Contrôle des applications	Ces flux de production vous permettent de contrôler les applications gérées et non gérées. Vous pouvez afficher la liste des applications ainsi que créer et supprimer une application gérée.
Protection des applications	Ces flux de travail vous permettent de protéger vos applications gérées par le biais des snapshots et des sauvegardes.
Clonage et restauration des applications	Décrit le clonage et la restauration des applications gérées dans ce workflow.
Assistance	Plusieurs workflows sont disponibles pour débogage et prise en charge de vos applications, ainsi que pour l'environnement Kubernetes général.

## Autres considérations

L'utilisation des flux de travail de gestion peut prendre en compte plusieurs considérations supplémentaires.

### Clonage d'une application

Vous devez tenir compte de plusieurs facteurs lors du clonage d'une application. Les paramètres décrits ci-dessous font partie de l'entrée JSON.

#### Identificateur de cluster source

La valeur de `sourceClusterID` identifie toujours le cluster sur lequel l'application d'origine est installée.

#### Identificateur de cluster

La valeur de `clusterID` identifie le cluster sur lequel la nouvelle application sera installée.

- Lors du clonage au sein d'un même cluster, `clusterID` et `sourceClusterID` avoir la même valeur.
- Lors du clonage entre clusters, les deux valeurs sont différentes et `clusterID` Doit être l'ID du cluster

cible.

## Espaces de noms

Le namespace la valeur doit être différente de celle de l'application source d'origine. De plus, le namespace du clone ne peut pas exister et Astra va le créer.

## Sauvegardes et snapshots

Vous pouvez également cloner une application à partir d'une sauvegarde ou d'un snapshot existant à l'aide de `backupID` ou `snapshotID` paramètres. Si vous ne fournissez pas de sauvegarde ou de snapshot, Astra crée d'abord une sauvegarde de l'application, puis clone à partir de la sauvegarde.

## Restauration d'une application

Voici quelques points à prendre en compte lors de la restauration d'une application.

- La restauration d'une application est très similaire à l'opération de clonage.
- Lors de la restauration d'une application, vous devez fournir une sauvegarde ou un instantané.

# Contrôle des applications

## Répertorier les applications

Vous pouvez lister les applications actuellement gérées par Astra. Pour rechercher des snapshots ou des sauvegardes d'une application spécifique, vous pouvez effectuer cette opération.

### 1. Dressez la liste des applications

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/account/{account_id}/k8s/v2/apps

## Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
include	Requête	Non	Sélectionner éventuellement les valeurs que vous souhaitez renvoyer dans la réponse.

## Exemple de curl : renvoie toutes les données de toutes les applications

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps' --header
'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Exemple de curl : renvoie le nom, l'ID et l'état de toutes les applications

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps?include=name,id
,state' --header 'Accept: */*' --header 'Authorization: Bearer
<API_TOKEN>'
```

## Exemple de sortie JSON

```
{
  "items": [
    [
      "mysql",
      "4ee2b8fa-3696-4f32-8879-399792f477c3",
      "ready"
    ],
    [
      "postgresql",
      "3b984474-e5c9-4b64-97ee-cdeb9bcd212e",
      "ready"
    ],
  ],
  "metadata": {}
}
```

## Obtenir une application

Vous pouvez récupérer toutes les variables de ressource décrivant une seule application.

### Avant de commencer

Vous devez avoir l'ID de l'application que vous souhaitez récupérer. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire les applications"](#) pour localiser l'application.

### 1. Obtenez l'application

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/account/{account_id}/k8s/v2/apps/{app_id}

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Valeur ID de l'application à récupérer.

### Exemple de curl : renvoie toutes les données de l'application

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps/<APP_ID>'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Gérer une application

Vous pouvez créer une application gérée basée sur une application déjà connue d'Astra dans un espace de noms spécifique. Lorsqu'une application est gérée ou définie par Astra, vous pouvez la protéger en effectuant des sauvegardes et des copies Snapshot.

### 1. Sélectionnez l'espace de noms

Exécutez le flux de travail "[Lister les espaces de noms](#)" et sélectionnez l'espace de noms.

### 2. Sélectionnez le cluster

Exécutez le flux de travail "[Lister les clusters](#)" et sélectionnez le cluster.

### 3. Gérer l'application

Effectuez l'appel suivant de l'API REST pour gérer l'application.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/k8s/v2/apps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
JSON	Corps	Oui.	Fournit les paramètres nécessaires à l'identification de l'application à gérer. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "clusterID": "7ce83fba-6aa1-4e0c-a194-26e714f5eb46",
  "name": "subtext",
  "namespaceScopedResources": [{"namespace": "kube-matrix"}],
  "type": "application/astra-app",
  "version": "2.0"
}
```

## Exemple de curl : gérer une application

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps' --header
'Content-Type: application/astra-app+json' --header 'Accept: */*' --header
'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Annuler la gestion d'une application

Vous pouvez supprimer une application gérée lorsqu'elle n'est plus nécessaire. La suppression d'une application gérée supprime également les planifications associées.

### Avant de commencer

Vous devez avoir l'ID de l'application que vous souhaitez annuler la gestion. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire des applications"](#) pour localiser l'application.

Les sauvegardes et snapshots de l'application ne sont pas automatiquement supprimés lorsqu'ils sont supprimés. Si vous n'avez plus besoin des sauvegardes et des snapshots, vous devez les supprimer avant de supprimer l'application.

### 1. Non géré de l'application

Effectuez l'appel suivant de l'API REST pour supprimer l'application.

Méthode HTTP	Chemin
SUPPRIMER	/account/{account_id}/k8s/v2/apps/{app_id}

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application à supprimer.

## Exemple de curl : supprimez une application gérée

```
curl --location -i --request DELETE
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps/<APP_ID>'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

# Protection des applications

## Répertorier les snapshots

Vous pouvez afficher la liste des instantanés pris pour une application spécifique.

### Avant de commencer

Vous devez disposer de l'ID de l'application pour laquelle vous souhaitez répertorier les instantanés. Si nécessaire, vous pouvez utiliser le workflow "[Répertorier les applications](#)" pour localiser l'application.

### 1. Dressez la liste des instantanés

Effectuez l'appel suivant de l'API REST pour afficher la liste des snapshots.

Méthode HTTP	Chemin
OBTENEZ	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appSnaps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application propriétaire des snapshots répertoriés.
nombre	Requête	Non	Si <code>count=true</code> le nombre de snapshots est inclus dans la section métadonnées de la réponse.

## Exemple de curl : renvoie tous les snapshots de l'application

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appSnaps'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Exemple de boucle : renvoie tous les snapshots de l'application et du nombre

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appSnap
ps?count=true' --header 'Accept: */*' --header 'Authorization: Bearer
<API_TOKEN>'
```

## Exemple de sortie JSON

```
{
  "items": [
    {
      "type": "application/astra-appSnap",
      "version": "1.1",
      "id": "1ce34da4-bb0a-4926-b925-4a5d85dda8c2",
      "hookState": "success",
      "metadata": {
        "createdBy": "a530e865-23e8-4e2e-8020-e92c419a3867",
        "creationTimestamp": "2022-10-30T22:44:20Z",
        "modificationTimestamp": "2022-10-30T22:44:20Z",
        "labels": []
      },
      "snapshotAppAsset": "0ebfe3f8-40ed-4bdc-88c4-2144fbda85a0",
      "snapshotCreationTimestamp": "2022-10-30T22:44:33Z",
      "name": "snapshot-david-1",
      "state": "completed",
      "stateUnready": []
    }
  ],
  "metadata": {}
}
```

## Répertoriez les sauvegardes

Vous pouvez afficher la liste des sauvegardes créées pour une application spécifique.

### Avant de commencer

Vous devez disposer de l’ID de l’application pour laquelle vous souhaitez répertorier les sauvegardes. Si nécessaire, vous pouvez utiliser le workflow ["Répertorier les applications"](#) pour localiser l’application.

#### 1. Dressez la liste des sauvegardes

Effectuez l’appel de l’API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appBackups

## Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application gérée propriétaire des sauvegardes répertoriées.

### Exemple Curl : renvoie toutes les sauvegardes de l'application

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appBackups' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de sortie JSON



```

{
  "items": [
    {
      "type": "application/astra-appBackup",
      "version": "1.1",
      "id": "8edeb4a4-fd8b-4222-a559-1013145b28fc",
      "name": "backup-david-oct28-1",
      "bucketID": "a443e58f-59bd-4d45-835a-1bc7813f659a",
      "snapshotID": "dfe237cb-57b7-4576-af4d-00ba3a8f2828",
      "state": "completed",
      "stateUnready": [],
      "hookState": "success",
      "totalBytes": 205219132,
      "bytesDone": 205219132,
      "percentDone": 100,
      "metadata": {
        "labels": [
          {
            "name": "astra.netapp.io/labels/read-
only/triggerType",
            "value": "backup"
          }
        ],
        "creationTimestamp": "2022-10-28T21:58:37Z",
        "modificationTimestamp": "2022-10-28T21:58:55Z",
        "createdBy": "a530e865-23e8-4e2e-8020-e92c419a3867"
      }
    }
  ],
  "metadata": {}
}

```

## Créer un instantané pour une application

Vous pouvez créer un instantané pour une application spécifique.

### Avant de commencer

Vous devez avoir l'ID de l'application pour laquelle vous souhaitez créer un snapshot. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire les applications"](#) pour localiser l'application.

#### 1. Créer un snapshot

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appSnaps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application gérée où le snapshot sera créé.
JSON	Corps	Oui.	Fournit les paramètres de l'instantané. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "type": "application/astra-appSnap",
  "version": "1.1",
  "name": "snapshot-david-1"
}
```

### Exemple de curl : créez un snapshot pour l'application

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appSnaps' --header 'Content-Type: application/astra-appSnap+json' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Créez une sauvegarde pour une application

Vous pouvez créer une sauvegarde pour une application spécifique, puis utiliser la sauvegarde pour restaurer ou cloner l'application.

#### Avant de commencer

Vous devez avoir l'ID de l'application que vous souhaitez sauvegarder. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire des applications"](#) pour localiser l'application.

#### 1. Créez une sauvegarde

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
POST	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appBackups

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application où la sauvegarde sera créée.
JSON	Corps	Oui.	Fournit les paramètres de la sauvegarde. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "name": "backup-david-1"
}
```

### Exemple Curl : créez une sauvegarde pour l'application

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appBackups' --header 'Content-Type: application/astra-appBackup+json' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Supprime un snapshot

Vous pouvez supprimer un snapshot associé à une application.

#### Avant de commencer

Vous devez disposer des éléments suivants :

- ID de l'application propriétaire de l'instantané. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire des applications"](#) pour localiser l'application.
- ID du snapshot à supprimer. Si nécessaire, vous pouvez utiliser le workflow ["Répertoire des snapshots"](#) pour localiser l'instantané.

## 1. Supprimez le snapshot

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
SUPPRIMER	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appSnaps/{appSnap_ID}

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application gérée propriétaire du snapshot.
id de snapshot	Chemin	Oui.	Identifie le snapshot à supprimer.

### Exemple de curl : supprimez un seul snapshot pour l'application

```
curl --location -i --request DELETE
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appSnaps/<SNAPSHOT_ID>' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Supprimer une sauvegarde

Vous pouvez supprimer une sauvegarde associée à une application.

### Avant de commencer

Vous devez disposer des éléments suivants :

- ID de l'application propriétaire de la sauvegarde. Si nécessaire, vous pouvez utiliser le workflow "[Répertoire les applications](#)" pour localiser l'application.
- ID de la sauvegarde à supprimer. Si nécessaire, vous pouvez utiliser le workflow "[Répertoriez les sauvegardes](#)" pour localiser l'instantané.

### 1. Supprimez la sauvegarde

Effectuez l'appel de l'API REST suivant.



Vous pouvez forcer la suppression d'une sauvegarde ayant échoué à l'aide de l'en-tête de demande facultatif comme décrit ci-dessous.

Méthode HTTP	Chemin
SUPPRIMER	/Accounts/{account_ID}/k8s/v1/apps/{app_ID}/appBackups/{appBackup_ID}

## Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
id de l'application	Chemin	Oui.	Identifie l'application gérée propriétaire de la sauvegarde.
id de sauvegarde	Chemin	Oui.	Identifie la sauvegarde à supprimer.
forcer la suppression	En-tête	Non	Utilisé pour forcer la suppression d'une sauvegarde ayant échoué.

### Exemple de curl : supprimez une sauvegarde unique pour l'application

```
curl --location -i --request DELETE
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appBackups/<BACKUP_ID>' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de curl : supprimez une sauvegarde unique pour l'application avec l'option forcer

```
curl --location -i --request DELETE
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/appBackups/<BACKUP_ID>' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --header 'Force-Delete: true'
```

## Création d'une règle de protection des données

Vous pouvez créer une règle de protection des données basée sur une ou plusieurs planifications.

### 1. Sélectionnez l'application

Exécutez le flux de travail "[Répertorier les applications](#)" et sélectionnez l'application souhaitée.

### 2. Créer la protection

Effectuez l'appel d'API REST suivant pour créer une stratégie de protection pour une application spécifique.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/k8s/v1/apps/{app_id}/programmations

## Exemple d'entrée JSON

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

## Exemple de boucle

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v1/apps/<APP_ID>/schedules' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
--data @JSONinput
```

# Clonage et restauration d'une application

## Cloner une application

Vous pouvez créer une application en clonant une application existante.

### Avant de commencer

Notez les éléments suivants concernant ce flux de travail :

- Aucune sauvegarde d'application ou snapshot n'est utilisée
- L'opération de clonage est effectuée au sein du même cluster
- La nouvelle application est placée dans un espace de noms différent



Pour cloner une application vers un autre cluster, vous devez mettre à jour le `clusterId` Paramètre JSON dans l'entrée correspondant à votre environnement.

### 1. Sélectionnez l'application à cloner

Exécutez le flux de travail "[Répertoire des applications](#)" et sélectionnez l'application à cloner. Plusieurs des valeurs de ressource sont nécessaires pour l'appel REST utilisé pour cloner l'application.

## 2. Cloner l'application

Effectuez l'appel suivant de l'API REST pour cloner l'application.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/k8s/v2/apps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
JSON	Corps	Oui.	Fournit les paramètres de l'application clonée. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "type": "application/astra-app",
  "version": "2.0",
  "name": "mysql-clone",
  "clusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "sourceClusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "namespace": "mysql-ns",
  "sourceAppID": "e591ee59-ea90-4a9f-8e6c-d2b6e8647096"
}
```

### Exemple de curl : clonez une application

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps' --header
'Content-Type: application/astra-app+json' --header '*' --header
'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Cloner une application à partir d'un snapshot

Vous pouvez créer une nouvelle application en la clonant à partir d'un snapshot.

### Avant de commencer

Notez les éléments suivants concernant ce flux de travail :

- Un snapshot d'application est utilisé
- L'opération de clonage est effectuée au sein du même cluster



Pour cloner une application vers un autre cluster, vous devez mettre à jour le `clusterId` Paramètre JSON dans l'entrée correspondant à votre environnement.

### 1. Sélectionnez l'application à cloner

Exécutez le flux de travail "[Répertoire les applications](#)" et sélectionnez l'application à cloner. Plusieurs des valeurs de ressource sont nécessaires pour l'appel REST utilisé pour cloner l'application.

### 2. Sélectionnez le snapshot à utiliser

Exécutez le flux de travail "[Répertoire les snapshots](#)" et sélectionnez le snapshot que vous souhaitez utiliser.

### 3. Clonez l'application

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/k8s/v2/apps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
JSON	Corps	Oui.	Fournit les paramètres de l'application clonée. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "type": "application/astra-app",
  "version": "2.0",
  "name": "mysql-clone2",
  "clusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "sourceClusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "namespace": "mysql",
  "snapshotID": "e24515bd-a28e-4b28-b832-f3c74dbf32fb"
}
```

### Exemple de curl : cloner une application à partir d'un snapshot



```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps' --header
'Content-Type: application/astra-app+json' --header '*/*' --header
'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Cloner une application à partir d'une sauvegarde

Vous pouvez créer une nouvelle application en la clonant à partir d'une sauvegarde.

### Avant de commencer

Notez les éléments suivants concernant ce flux de travail :

- Une sauvegarde d'application est utilisée
- L'opération de clonage est effectuée au sein du même cluster



Pour cloner une application vers un autre cluster, vous devez mettre à jour le `clusterId` Paramètre JSON dans l'entrée correspondant à votre environnement.

### 1. Sélectionnez l'application à cloner

Exécutez le flux de travail "[Répertorier les applications](#)" et sélectionnez l'application à cloner. Plusieurs des valeurs de ressource sont nécessaires pour l'appel REST utilisé pour cloner l'application.

### 2. Sélectionnez la sauvegarde à utiliser

Exécutez le flux de travail "[Répertoriez les sauvegardes](#)" et sélectionnez la sauvegarde que vous souhaitez utiliser.

### 3. Clonez l'application

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
POST	/accounts/{account_id}/k8s/v2/qpps

### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
JSON	Corps	Oui.	Fournit les paramètres de l'application clonée. Voir l'exemple ci-dessous.

## Exemple d'entrée JSON

```
{
  "type": "application/astra-app",
  "version": "2.0",
  "name": "mysql-clone3",
  "clusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "sourceClusterID": "30880586-d579-4d27-930f-a9633e59173b",
  "namespace": "mysql",
  "backupID": "e24515bd-a28e-4b28-b832-f3c74dbf32fb"
}
```

## Exemple Curl : cloner une application à partir d'une sauvegarde

```
curl --location -i --request POST
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps' --header
'Content-Type: application/astra-app+json' --header '*/*' --header
'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

## Restaurez une application à partir d'une sauvegarde

Vous pouvez restaurer une application en créant une nouvelle application à partir d'une sauvegarde.

### 1. Sélectionnez l'application à restaurer

Exécutez le flux de travail "[Répertorier les applications](#)" et sélectionnez l'application à cloner. Plusieurs des valeurs de ressources sont nécessaires pour l'appel DE REPOS utilisé pour restaurer l'application.

### 2. Sélectionnez la sauvegarde à utiliser

Exécutez le flux de travail "[Répertoriez les sauvegardes](#)" et sélectionnez la sauvegarde que vous souhaitez utiliser.

### 3. Restaurez l'application

Effectuez l'appel de l'API REST suivant. Vous devez fournir l'ID d'une sauvegarde (comme indiqué ci-dessous) ou d'un instantané.

Méthode HTTP	Chemin
EN	/account/{account_id}/k8s/v2/apps/{app_id}

## Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
JSON	Corps	Oui.	Fournit les paramètres de l'application clonée. Voir l'exemple ci-dessous.

### Exemple d'entrée JSON

```
{
  "type": "application/astra-app",
  "version": "2.0",
  "backupID": "e24515bd-a28e-4b28-b832-f3c74dbf32fb"
}
```

### Exemple Curl : restaurez une application à partir d'une sauvegarde

```
curl --location -i --request PUT
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/k8s/v2/apps/<APP_ID>'
--header 'Content-Type: application/astra-app+json' --header '*/*'
--header 'ForceUpdate: true' --header 'Authorization: Bearer <API_TOKEN>'
--data @JSONinput
```

## Espaces de noms

### Lister les espaces de noms

Vous pouvez lister les espaces de noms disponibles.

#### 1. Dressez la liste des espaces de noms

Exécutez l'appel d'API REST suivant pour afficher la liste des namespaces.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/topologique/v1/namespaces

### Exemple Curl : renvoie toutes les données de tous les espaces de noms

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topologie/v1/namespaces'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

## Exemple Curl : nom, état et ID de cluster pour tous les namespaces

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/namespaces?include=name,namespaceState,clusterID' --header 'Accept: */*' --header
'Authorization: Bearer <API_TOKEN>'
```

## Exemple de sortie JSON

```
{
  "items": [
    [
      "default",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "kube-node-lease",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "kube-public",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "kube-system",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "mysql",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "mysql-clonel",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "netapp-acc-operator",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ]
  ]
}
```

```

    ],
    [
      "openshift",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ],
    [
      "trident",
      "discovered",
      "922f924a-a476-4a79-97f6-472571698154"
    ]
  ],
  "metadata": {}
}

```

## Assistance

### Dressez la liste des notifications

Vous pouvez lister les notifications d'un compte Astra spécifique. Vous pouvez le faire dans le cadre de la surveillance de l'activité du système ou du débogage d'un problème.

#### 1. Dressez la liste des notifications

Effectuez l'appel de l'API REST suivant.

Méthode HTTP	Chemin
OBTENEZ	/accounts/{account_id}/core/v1/notifications

#### Paramètres d'entrée supplémentaires

Outre les paramètres communs à tous les appels API REST, les paramètres suivants sont également utilisés dans les exemples de boucles pour cette étape.

Paramètre	Type	Obligatoire	Description
filtre	Requête	Non	Vous pouvez éventuellement filtrer les notifications que vous souhaitez renvoyer dans la réponse.
inclure	Requête	Non	Sélectionner éventuellement les valeurs que vous souhaitez renvoyer dans la réponse.

#### Exemple de boucle : renvoie toutes les notifications

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/notifications'
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple Curl : renvoie la description des notifications avec gravité d'avertissement

```
curl --location -i --request GET
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/notifications?filter=severity%20eq%20'warning'&include=description' --header 'Accept: */*'
--header 'Authorization: Bearer <API_TOKEN>'
```

### Exemple de sortie JSON

```
{
  "items": [
    [
      "Trident on cluster david-ie-00 has failed or timed out;
installation of the Trident operator failed or is not yet complete;
operator failed to reach an installed state within 300.00 seconds;
container trident-operator not found in operator deployment"
    ],
    [
      "Trident on cluster david-ie-00 has failed or timed out;
installation of the Trident operator failed or is not yet complete;
operator failed to reach an installed state within 300.00 seconds;
container trident-operator not found in operator deployment"
    ]
  ],
  "metadata": {}
}
```

## Supprimer une application ayant échoué

Il se peut que vous ne puissiez pas supprimer une application gérée si elle a une sauvegarde ou un snapshot en état d'échec. Dans ce cas, vous pouvez supprimer manuellement l'application à l'aide du workflow décrit ci-dessous.

### 1. Sélectionnez l'application à supprimer

Exécutez le flux de travail ["Répertoire les applications"](#) et sélectionnez l'application à supprimer.

### 2. Dressez la liste des sauvegardes existantes de l'application

Exécutez le flux de travail ["Répertoriez les sauvegardes"](#).

### **3. Supprimez toutes les sauvegardes**

Supprimez toutes les sauvegardes de l'application en exécutant le flux de travail "[Supprimer une sauvegarde](#)" pour chaque sauvegarde de la liste.

### **4. Dressez la liste des instantanés existants de l'application**

Exécutez le flux de travail "[Répertorier les snapshots](#)".

### **5. Supprimez tous les instantanés**

Exécutez le flux de travail "[Supprime un snapshot](#)" à partir de chaque instantané de la liste.

### **6. Retirez l'application**

Exécutez le flux de travail "[Annuler la gestion d'une application](#)" pour supprimer l'application.

# À l'aide de Python

## Kit de développement logiciel NetApp Astra Control Python

Le kit de développement logiciel NetApp Astra Control Python est un logiciel open source qui permet d'automatiser le déploiement d'Astra Control. Il constitue également une ressource précieuse pour en savoir plus sur l'API REST Astra Control, peut-être dans le cadre de la création de votre propre plateforme d'automatisation.



Dans un souci de simplicité, le kit de développement NetApp Astra Control Python sera appelé **SDK** au cours du reste de cette page.

### Deux outils logiciels connexes

Le SDK inclut deux outils différents bien que associés qui fonctionnent à différents niveaux d'abstraction lors de l'accès à l'API REST Astra Control.

#### Kit de développement Astra

Le kit de développement logiciel Astra fournit les principales fonctionnalités de la plateforme. Il inclut un ensemble de classes Python qui abstrait les appels de l'API REST sous-jacente. Ces classes prennent en charge les actions administratives sur diverses ressources Astra Control, notamment les applications, les sauvegardes, les instantanés et les clusters.

Le kit de développement Astra fait partie de l'offre et est fourni en une seule pièce `astraSDK.py` fichier. Vous pouvez importer ce fichier dans votre environnement et utiliser les classes directement.



Le **SDK Python de contrôle Astra** (ou uniquement SDK) de NetApp est le nom de l'ensemble du package. Le **Astra SDK** fait référence aux classes Python de base dans le fichier unique `astraSDK.py`.

#### Script Toolkit

En plus du fichier Astra SDK, le `toolkit.py` script également disponible. Ce script fonctionne à un niveau d'abstraction plus élevé en donnant accès à des actions administratives discrètes définies en interne comme des fonctions Python. Le script importe le SDK Astra et fait des appels aux classes selon les besoins.

### Comment y accéder

Vous pouvez accéder au SDK de la manière suivante.

#### Pack Python

Le SDK est disponible à l'adresse "[Index des paquets Python](#)" sous le nom **actoolkit**. Un numéro de version est attribué au package et continuera d'être mis à jour au besoin. Vous devez utiliser l'utilitaire de gestion de paquets **PIP** pour installer le package dans votre environnement.

Une fois installé, les `astraSDK.py` classes peuvent être utilisées en plaçant `import astraSDK` dans vos scripts. En outre, `actoolkit` peut être appelé directement sur votre invite de commande et équivaut à `toolkit.py` (`actoolkit list clusters` est identique à `./toolkit.py list clusters`).

Voir "[PyPI : kit de développement Python de contrôle NetApp Astra](#)" pour en savoir plus.



## Code source GitHub

Le code source du SDK est également disponible sur GitHub. Le référentiel inclut les éléments suivants :

- `astraSDK.py` (SDK Astra avec classes Python)
- `toolkit.py` (script basé sur les fonctions de niveau supérieur)
- Conditions requises et instructions détaillées pour l'installation
- Scripts d'installation
- Documentation complémentaire

Vous pouvez cloner le "[GitHub : kits NetApp/netapp-astra-toolkits](#)" référentiel pour votre environnement local.

## Conditions requises pour l'installation et de base

Il y a plusieurs options et conditions requises à considérer dans le cadre de l'installation de l'emballage et de la préparation à l'utilisation.

### Résumé des options d'installation

Vous pouvez installer le SDK de l'une des manières suivantes :

- Utilisez le préparé "[Docker : kits de ressources NetApp/astra](#)" image, avec toutes les dépendances nécessaires installées, y compris `actoolkit`
- Utiliser le PIP pour installer le `actoolkit` Package de PyPI dans votre environnement Python
- Clonez le référentiel GitHub et copiez/modifiez les deux fichiers Python de base afin qu'ils soient accessibles à votre code client Python

Reportez-vous aux pages PyPI et GitHub pour plus d'informations.

### Exigences relatives à l'environnement Astra Control

Qu'il s'agisse d'utiliser directement les classes Python du SDK Astra ou des fonctions du `toolkit.py` À terme, vous accéderez à l'API REST lors d'un déploiement d'Astra Control. Vous aurez donc besoin d'un compte Astra et d'un jeton API. Voir "[Avant de commencer](#)" Et les autres pages de la section **Get Started** de cette documentation pour plus d'informations.

### Exigences relatives au kit de développement logiciel NetApp Astra Control Python

Le SDK a plusieurs conditions préalables liées à l'environnement Python local. Par exemple, vous devez utiliser Python 3.8 ou une version ultérieure. En outre, plusieurs paquets Python sont requis. Pour plus d'informations, consultez la page de référentiel GitHub ou la page de package PyPI.

## Résumé des ressources utiles

Voici quelques ressources utiles pour commencer.

- "[PyPI : kit de développement Python de contrôle NetApp Astra](#)"
- "[GitHub : kits NetApp/netapp-astra-toolkits](#)"
- "[Docker : kits de ressources NetApp/astra](#)"

# Python natif

## Avant de commencer

Python est un langage de développement populaire pour l'automatisation des data centers. Avant d'utiliser les fonctions natives de Python avec plusieurs packages courants, vous devez préparer l'environnement et les fichiers d'entrée requis.



En plus d'accéder directement à l'API REST Astra Control avec Python, NetApp propose un kit d'outils qui résume l'API et élimine une partie de la complexité. Voir "[Kit de développement logiciel NetApp Astra Control Python](#)" pour en savoir plus.

## Préparation de l'environnement

Les exigences de configuration de base pour exécuter les scripts Python sont décrites ci-dessous.

### Python 3

La dernière version de Python 3 doit être installée.

### Bibliothèques supplémentaires

Les bibliothèques **requêtes** et **urllib3** doivent être installées. Vous pouvez utiliser pip ou un autre outil de gestion Python, selon les besoins de votre environnement.

### Accès réseau

Le poste de travail sur lequel les scripts s'exécutent doit disposer d'un accès réseau et pouvoir accéder à Astra Control. Lorsque vous utilisez le service Astra Control, vous devez être connecté à Internet et être en mesure de vous connecter au service à <https://astra.netapp.io>.

### Informations d'identité

Vous avez besoin d'un compte Astra valide avec l'identifiant de compte et le jeton API. Voir "[Obtenir un jeton API](#)" pour en savoir plus.

## Créez les fichiers d'entrée JSON

Les scripts Python s'appuient sur les informations de configuration contenues dans les fichiers d'entrée JSON. Des exemples de fichiers sont fournis ci-dessous.



Vous devez mettre à jour les échantillons en fonction de votre environnement.

### Informations d'identité

Le fichier suivant contient le jeton API et le compte Astra. Vous devez transmettre ce fichier aux scripts Python à l'aide de `-i` (ou `--identity`) Paramètre CLI.

```
{
  "api_token": "kH4CA_uVIa8q9UuPzhJaAHaG1aR7-no901DkkrVjIXk=",
  "account_id": "5131dfdf-03a4-5218-ad4b-fe84442b9786"
}
```

## Répertorier les applications

Vous pouvez utiliser le script suivant pour répertorier les applications de votre compte Astra.



Voir "[Avant de commencer](#)" Par exemple le fichier d'entrée JSON requis.

```
#!/usr/bin/env python3
##-----
-----
#
# Usage: python3 list_man_apps.py -i identity_file.json
#
# (C) Copyright 2022 NetApp, Inc.
#
# This sample code is provided AS IS, with no support or warranties of
# any kind, including but not limited for warranties of merchantability
# or fitness of any kind, expressed or implied. Permission to use,
# reproduce, modify and create derivatives of the sample code is granted
# solely for the purpose of researching, designing, developing and
# testing a software application product for use with NetApp products,
# provided that the above copyright notice appears in all copies and
# that the software application product is distributed pursuant to terms
# no less restrictive than those set forth herein.
#
##-----
-----

import argparse
import json
import requests
import urllib3
import sys

# Global variables
api_token = ""
account_id = ""

def get_managed_apps():
    ''' Get and print the list of apps '''

    # Global variables
    global api_token
    global account_id

    # Create an HTTP session
```

```

sess1 = requests.Session()

# Suppress SSL unsigned certificate warning
urllib3.disable_warnings(urllib3.exceptions.InsecureRequestWarning)

# Create URL
url1 = "https://astra.netapp.io/accounts/" + account_id +
"/k8s/v2/apps"

# Headers and response output
req_headers = {}
resp_headers = {}
resp_data = {}

# Prepare the request headers
req_headers.clear
req_headers['Authorization'] = "Bearer " + api_token
req_headers['Content-Type'] = "application/astra-app+json"
req_headers['Accept'] = "application/astra-app+json"

# Make the REST call
try:
    resp1 = sess1.request('get', url1, headers=req_headers,
allow_redirects=True, verify=False)

except requests.exceptions.ConnectionError:
    print("Connection failed")
    sys.exit(1)

# Retrieve the output
http_code = resp1.status_code
resp_headers = resp1.headers

# Print the list of apps
if resp1.ok:
    resp_data = json.loads(resp1.text)
    items = resp_data['items']
    for i in items:
        print(" ")
        print("Name: " + i['name'])
        print("ID: " + i['id'])
        print("State: " + i['state'])
    else:
        print("Failed with HTTP status code: " + str(http_code))

print(" ")

```

```

# Close the session
sess1.close()

return

def read_id_file(idf):
    ''' Read the identity file and save values '''

    # Global variables
    global api_token
    global account_id

    with open(idf) as f:
        data = json.load(f)

    api_token = data['api_token']
    account_id = data['account_id']

    return

def main(args):
    ''' Main top level function '''

    # Global variables
    global api_token
    global account_id

    # Retrieve name of JSON input file
    identity_file = args.id_file

    # Get token and account
    read_id_file(identity_file)

    # Issue REST call
    get_managed_apps()

    return

def parseArgs():
    ''' Parse the CLI input parameters '''

    parser = argparse.ArgumentParser(description='Astra REST API -
List the apps',
                                   add_help = True)
    parser.add_argument("-i", "--identity", action="store", dest
="id_file", default=None,
                        help='(Req) Name of the identity input file',

```

```
required=True)

    return parser.parse_args()

if __name__ == '__main__':
    ''' Begin here '''

    # Parse input parameters
    args = parseArgs()

    # Call main function
    main(args)
```

# Référence API

## Overview

The Astra Control REST API reference documentation contains the details of all the REST API calls, including the endpoints, HTTP methods, input parameters, and responses. This complete reference is helpful when developing automation applications using the API.

The Astra REST API provides CRUD (Create-Read-Update-Delete) access to all the Astra Control resources except where noted for a specific resource category. This reference documentation applies to the 23.10 release of Astra Control REST API.

## ASUP

### ASUP overview

The ASUP API provides access to ASUP resources in order to create and optionally upload the AutoSupport bundles.

### Create a new ASUP resource

POST `/accounts/{account_id}/core/v1/asups`

Indicates the desired values for the ASUP API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

#### Request Body

Indicates the desired values for the ASUP API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-asup"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
upload	string	True	JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: <ul style="list-style-type: none"> <li>"true" - Upload the AutoSupport bundle.</li> <li>"false" - Do not upload the AutoSupport bundle.</li> </ul>
dataWindowStart	string	False	JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>
dataWindowEnd	string	False	JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example request

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "upload": "true"
}
```

### Response

Status: 201, Returns the newly created asup resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-asup"</li> </ul>
version	string	True	<p>Version of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
creationState	string	True	<p>JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - AutoSupport bundle generation is running normally.</li> <li>• "completed" - AutoSupport bundle generation has completed.</li> <li>• "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle.</li> <li>• "failed" - AutoSupport bundle generation is in a permanent failure state.</li> </ul>
creationStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
upload	string	True	<p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "true" - Upload the AutoSupport bundle.</li><li>• "false" - Do not upload the AutoSupport bundle.</li></ul>

Name	Type	Required	Description
uploadState	string	False	<p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running").</li> <li>• "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license.</li> <li>• "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial").</li> <li>• "completed" - AutoSupport bundle upload has completed.</li> <li>• "failed" - AutoSupport bundle upload is in a permanent failure state.</li> </ul>

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
triggerType	string	True	<p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "manual" - The ASUP resource and associated AutoSupport bundle were created manually.</li> <li>• "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.</li> </ul>
dataWindowStart	string	True	<p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
dataWindowEnd	string	True	<p>JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "id": "9950003f-a1c7-5ca7-8930-06eec25f60aa",
  "creationState": "running",
  "creationStateDetails": [],
  "upload": "true",
  "uploadState": "pending",
  "uploadStateDetails": [],
  "triggerType": "manual",
  "dataWindowStart": "2020-08-05T12:24:00.000000Z",
  "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all ASUP resources

GET /accounts/{account\_id}/core/v1/asups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">asup_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-asups",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-asup",
      "version": "1.0",
      "id": "80796606-79ba-480b-966c-e4c600fbf623",
      "creationState": "completed",
      "creationStateDetails": [],
      "upload": "true",
      "uploadState": "running",
      "uploadStateDetails": [],
      "triggerType": "manual",
      "dataWindowStart": "2020-08-05T12:24:00.000000Z",
      "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1b32a508-cc6f-4f1b-809f-c42fd91b4848"
      }
    },
    {
      "type": "application/astra-asup",
      "version": "1.0",
      "id": "6503131d-8b36-4434-b34f-73661ae8100b",
      "creationState": "completed",
      "creationStateDetails": [],
      "upload": "true",
      "uploadState": "completed",
      "uploadStateDetails": [],
      "triggerType": "scheduled",
      "dataWindowStart": "2020-08-04T13:30:00.000000Z",
      "dataWindowEnd": "2020-08-05T13:30:00.000000Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-05T13:30:00.012321Z",
        "modificationTimestamp": "2020-08-05T13:30:00.012321Z",
        "createdBy": "1b32a508-cc6f-4f1b-809f-c42fd91b4848"
      }
    }
  ],
  "metadata": {
```

```
"labels": [],
"creationTimestamp": "2022-10-06T20:58:16.305662Z",
"modificationTimestamp": "2022-10-06T20:58:16.305662Z",
"createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

Name	Type	Required	Description
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

asup\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-asup"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
creationState	string	True	JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip". Defined values are: <ul style="list-style-type: none"> <li>• "running" - AutoSupport bundle generation is running normally.</li> <li>• "completed" - AutoSupport bundle generation has completed.</li> <li>• "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle.</li> <li>• "failed" - AutoSupport bundle generation is in a permanent failure state.</li> </ul>

Name	Type	Required	Description
creationStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
upload	string	True	<p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Upload the AutoSupport bundle.</li> <li>• "false" - Do not upload the AutoSupport bundle.</li> </ul>

Name	Type	Required	Description
uploadState	string	False	<p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running").</li> <li>• "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license.</li> <li>• "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial").</li> <li>• "completed" - AutoSupport bundle upload has completed.</li> <li>• "failed" - AutoSupport bundle upload is in a permanent failure state.</li> </ul>

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDe tail]	False	<p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
triggerType	string	True	<p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "manual" - The ASUP resource and associated AutoSupport bundle were created manually.</li> <li>• "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.</li> </ul>
dataWindowStart	string	True	<p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
dataWindowEnd	string	True	JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> If not specified on create, a metadata object will be created with no labels.

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an ASUP resource

GET /accounts/{account\_id}/core/v1/asups/{asup\_id}

Returns the stored ASUP API resource in the JSON response body. If the AutoSupport bundle "creationState" is "completed" or "partial", the AutoSupport bundle can be downloaded by specifying an Accept header containing "/" or "application/gzip".

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
asup_id	string	path	True	ID of the asup collection to list

### Response

Status: 200, Returns the stored ASUP API resource in the JSON response body. If the AutoSupport bundle "creationState" is "completed" or "partial", the AutoSupport bundle can be downloaded by specifying an Accept header containing "\*/\*" or "application/gzip".

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-asup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>



Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
creationState	string	True	<p>JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - AutoSupport bundle generation is running normally.</li> <li>• "completed" - AutoSupport bundle generation has completed.</li> <li>• "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle.</li> <li>• "failed" - AutoSupport bundle generation is in a permanent failure state.</li> </ul>
creationStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
upload	string	True	<p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "true" - Upload the AutoSupport bundle.</li><li>• "false" - Do not upload the AutoSupport bundle.</li></ul>

Name	Type	Required	Description
uploadState	string	False	<p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running").</li> <li>• "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license.</li> <li>• "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial").</li> <li>• "completed" - AutoSupport bundle upload has completed.</li> <li>• "failed" - AutoSupport bundle upload is in a permanent failure state.</li> </ul>

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
triggerType	string	True	<p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "manual" - The ASUP resource and associated AutoSupport bundle were created manually.</li> <li>• "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.</li> </ul>
dataWindowStart	string	True	<p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
dataWindowEnd	string	True	<p>JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example response

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "id": "9950003f-a1c7-5ca7-8930-06eec25f60aa",
  "creationState": "completed",
  "creationStateDetails": [],
  "upload": "false",
  "triggerType": "manual",
  "dataWindowStart": "2020-08-05T12:24:00.000000Z",
  "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Account

## Account overview

The Account API represents isolated tenants in a multitenant system.

## Create a new account

POST /accounts

Indicates the desired values for the Account API resource to be created.

### Request Body

Indicates the desired values for the Account API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-account"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
name	string	True	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 63</li><li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "name": "Testing 123"
}
```

### Response

Status: 201, Returns the newly created account resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-account"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the account. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>

Name	Type	Required	Description
isEnabled	string	True	<p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled. If the account has never been enabled, this field is absent. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
accountContact	<a href="#">accountContact</a>	False	<p>JSON object containing user contact information to create an owner user at the time of account activation.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "id": "666a3f38-d4fa-5b62-a391-a69029758d32",
  "name": "fraught-pines",
  "state": "pending",
  "isEnabled": "false",
  "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>

Name	Type	Required	Description
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

Name	Type	Required	Description
firstName	string	True	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
lastName	string	True	JSON string containing a user specified long-form last name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
companyName	string	False	JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user specified email address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
postalAddress	<a href="#">postalAddress</a>	True	JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field

Name	Type	Required	Description
reason	string	True	Reason why the request body field is invalid

## List all accounts

GET /accounts

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: <continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">account_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-accounts",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "70796606-79ba-480b-966c-e4c600fbf622",
      "name": "fraught-pines",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    },
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "7976114d-35ec-48a7-ba31-22d8e94a8bb2",
      "name": "sad-dino",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

Name	Type	Required	Description
firstName	string	True	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
lastName	string	True	<p>JSON string containing a user specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
email	string	True	<p>JSON strings containing a user specified email address.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
postalAddress	<a href="#">postalAddress</a>	True	JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	



Name	Type	Required	Description
modifiedBy	string	False	

account\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>
isEnabled	string	True	<p>JSON string indicating the account is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled.</p> <p>If the account has never been enabled, this field is absent.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
accountContact	<a href="#">accountContact</a>	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an account

GET /accounts/{account\_id}

Returns the stored Account API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the account collection to list <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

### Response

Status: 200, Returns the stored Account API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the account. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the account. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>
isEnabled	string	True	<p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>

Name	Type	Required	Description
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled.</p> <p>If the account has never been enabled, this field is absent.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
accountContact	<a href="#">accountContact</a>	False	<p>JSON object containing user contact information to create an owner user at the time of account activation.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "id": "666a3f38-d4fa-5b62-a391-a69029758d32",
  "name": "fraught-pines",
  "state": "active",
  "isEnabled": "true",
  "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

Name	Type	Required	Description
firstName	string	True	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
lastName	string	True	<p>JSON string containing a user specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
email	string	True	<p>JSON strings containing a user specified email address.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
postalAddress	<a href="#">postalAddress</a>	True	JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an account

PUT /accounts/{account\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the account collection to list <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>
isEnabled	string	False	<p>JSON string indicating the account is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled.</p> <p>If the account has never been enabled, this field is absent.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
accountContact	<a href="#">accountContact</a>	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "name": "frightened-pine"
}
```

### Response

Status: 204, Indicates if the account resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

Name	Type	Required	Description
addressCountry	string	False	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	False	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	False	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	False	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	False	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

Name	Type	Required	Description
firstName	string	False	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
email	string	False	<p>JSON strings containing a user specified email address.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>



Name	Type	Required	Description
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	

Name	Type	Required	Description
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an account

DELETE /accounts/{account\_id}

Removes the specified Account API resource.

### Side Effects

- "deletePending" is set to "true" and the account can no longer be accessed.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the account collection to list <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>

### Response

Status: 204, Indicates if the account resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## App

### App overview

The App API represents Kubernetes applications, including those unmanaged by Astra.

### Create a new app for a managed cluster

POST /accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps

Indicates the desired values for the App API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource

### Request Body

Indicates the desired values for the App API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> <li>"2.2"</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}
```

### Response

Status: 201, Returns the newly created app resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> <li>"2.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app

Name	Type	Required	Description
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [],
  "name": "jenkins",
  "namespaceScopedResources": [
    {
      "namespace": "production",
      "labelSelectors": []
    }
  ],
  "state": "pending",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production"
  ],
  "clusterName": "GKE-22",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>



## namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

## storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>

Name	Type	Required	Description
destination	string	True	<p>JSON string containing the name of the destination storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	True	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.

Name	Type	Required	Description
GVKN	array[GVKN]	True	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 253</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>



### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2"] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.

Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the apps for a managed cluster

GET /accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,state</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">app_2.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-apps",
  "version": "2.2",
  "items": [
    [
      "2ff50f4b-fe40-4980-913f-8a4469184822",
      "mysql",
      "ready"
    ],
    [
      "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "jenkins",
      "ready"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**



## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>

clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.  <ul style="list-style-type: none"> <li>This object is internally validated against Astra /apiResources.</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2"] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	True	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	<p>JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.</p>



Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### app\_2.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> <li>"2.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	<p>JSON array of JSON objects describing the cluster-scoped resources that are part of this app</p>
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	<p>JSON array of JSON objects describing the resources that are part of this app</p>
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDe tail</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an app for a managed cluster

GET

/accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps/{app\_id}

Returns the stored App API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the app collection to list

### Response

Status: 200, Returns the stored App API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-app"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"2.0"</li><li>"2.1"</li><li>"2.2"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
links	array[ <a href="#">type_astra_link</a> ]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app

Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>



Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v2/managedClusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f"
    },
    {
      "rel": "collection",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v1/clouds/892814c9-77a1-46f3-b54a-82c34cdf0032/clusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/namespaces/da78daf6-8e11-4220-a461-6b1d4a6dc231/apps"
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "disruptiveBackup",
      "hints": {
        "allow": [],
        "permissions": [
          "appBackup-create"
        ]
      }
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "nonDisruptiveBackup",
      "hints": {
        "allow": [
          "POST"
        ],
        "permissions": [
```

```

        "appBackup-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "restore",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "app-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appSnaps",
    "type": "application/astra-appSnap",
    "title": "snapshot",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appSnap-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "clone",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [

```

```

        "app-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f",
    "type": "application/astra-app",
    "title": "inPlaceRestore",
    "hints": {
        "allow": [
            "PUT"
        ],
        "permissions": [
            "app-update"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appMirrors",
    "type": "application/astra-appMirror",
    "title": "replication",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appMirror-create"
        ]
    }
},
],
"name": "jenkins",
"namespaceScopedResources": [
    {
        "namespace": "production-clone",
        "labelSelectors": [
            "app = jenkins,release = production"
        ]
    }
],
"namespaceMapping": [

```



```

    {
      "source": "production",
      "destination": "production-clone"
    }
  ],
  "state": "ready",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production-clone"
  ],
  "snapshotID": "8d561930-0437-4647-b3e6-49b8a5362e3d",
  "clusterName": "GKE-24",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>

clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.  <ul style="list-style-type: none"> <li>This object is internally validated against Astra /apiResources.</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>



### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2"] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	True	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 253</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>[ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	<p>JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.</p>

Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an app for a managed cluster

PUT

/accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps/{app\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the app collection to list

Name	Type	In	Required	Description
forceUpdate	string	header	False	Flag that enables destructive overwrites. Only include this when requesting an in-place restore (IPR).  • example: true

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-app"
version	string	True	Version of the resource. Defined values are:  • "2.0" • "2.1" • "2.2"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "mysql-old"
}
```

### Response

Status: 204, Indicates if the app resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{  
  "type": "https://astra.netapp.io/problems/1",  
  "title": "Resource not found",  
  "detail": "The resource specified in the request URI wasn't found.",  
  "status": "404"  
}
```

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	False	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>



Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

"app=mysql,version=2" ] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	False	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	False	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	False	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	False	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 253</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	True	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.

Name	Type	Required	Description
GVKN	array[GVKN]	True	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an app for a managed cluster

### DELETE

/accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps/{app\_id}

Removes the specified App API resource.

### Side Effects

- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer appear under /apps.
- First, the application goes into the deleting state and then deletes all associated schedules, snapshots, backups, and the stored application state.

### Parameters



Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the app collection to list

### Response

Status: 204, Indicates if the app resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/91",
  "title": "Application not deleted",
  "detail": "The application wasn't deleted because of an internal
server issue.",
  "status": "500"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/112",
  "title": "Application not ready",
  "detail": "The application is currently unavailable.",
  "status": "409"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new app

POST /accounts/{account\_id}/k8s/v2/apps

Indicates the desired values for the App API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the App API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-app"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"2.0"</li><li>"2.1"</li><li>"2.2"</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	restoreFilter	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}
```

### Response

Status: 201, Returns the newly created app resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> <li>"2.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app

Name	Type	Required	Description
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [],
  "name": "jenkins",
  "namespaceScopedResources": [
    {
      "namespace": "production",
      "labelSelectors": []
    }
  ],
  "state": "pending",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production"
  ],
  "clusterName": "GKE-22",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

## namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

## storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>



Name	Type	Required	Description
destination	string	True	<p>JSON string containing the name of the destination storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	True	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.

Name	Type	Required	Description
GVKN	array[GVKN]	True	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 253</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2"] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.



Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all apps

GET /accounts/{account\_id}/k8s/v2/apps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,state</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">app_2.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-apps",
  "version": "2.2",
  "items": [
    [
      "2ff50f4b-fe40-4980-913f-8a4469184822",
      "mysql",
      "ready"
    ],
    [
      "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "jenkins",
      "ready"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>



Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>

clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"> <li>This object is internally validated against Astra /apiResources.</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2" ] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	True	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	<p>JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.</p>

Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	



Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### app\_2.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> <li>"2.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
links	array[ <a href="#">type_astra_link</a> ]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[clusterScopedResources]	False	<p>JSON array of JSON objects describing the cluster-scoped resources that are part of this app</p>
namespaceScopedResources	array[namespaceScopedResources]	True	<p>JSON array of JSON objects describing the resources that are part of this app</p>
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDe tail</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>



Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an app

GET /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Returns the stored App API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the app collection to list

### Response

Status: 200, Returns the stored App API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-app"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"2.0"</li><li>"2.1"</li><li>"2.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
links	array[ <a href="#">type_astra_link</a> ]	True	Links describing supported operations against the resource.
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v2/managedClusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f"
    },
    {
      "rel": "collection",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v1/clouds/892814c9-77a1-46f3-b54a-82c34cdf0032/clusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/namespaces/da78daf6-8e11-4220-a461-6b1d4a6dc231/apps"
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "disruptiveBackup",
      "hints": {
        "allow": [],
        "permissions": [
          "appBackup-create"
        ]
      }
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "nonDisruptiveBackup",
      "hints": {
        "allow": [
          "POST"
        ],
        "permissions": [
```

```

        "appBackup-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "restore",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "app-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appSnaps",
    "type": "application/astra-appSnap",
    "title": "snapshot",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appSnap-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "clone",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [

```

```

        "app-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f",
    "type": "application/astra-app",
    "title": "inPlaceRestore",
    "hints": {
        "allow": [
            "PUT"
        ],
        "permissions": [
            "app-update"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appMirrors",
    "type": "application/astra-appMirror",
    "title": "replication",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appMirror-create"
        ]
    }
},
"name": "jenkins",
"namespaceScopedResources": [
    {
        "namespace": "production-clone",
        "labelSelectors": [
            "app = jenkins,release = production"
        ]
    }
],
"namespaceMapping": [

```

```

    {
      "source": "production",
      "destination": "production-clone"
    }
  ],
  "state": "ready",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production-clone"
  ],
  "snapshotID": "8d561930-0437-4647-b3e6-49b8a5362e3d",
  "clusterName": "GKE-24",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes.  <ul style="list-style-type: none"> <li>This string is internally validated against Astra /apiResources</li> </ul>

#### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.  <ul style="list-style-type: none"> <li>This object is internally validated against Astra /apiResources.</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

"app=mysql,version=2" ] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	True	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>



Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	False	<p>JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.</p>

Name	Type	Required	Description
GVKN	array[GVKN]	False	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an app

PUT /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the app collection to list
forceUpdate	string	header	False	Flag that enables destructive overwrites. Only include this when requesting an in-place restore (IPR). <ul style="list-style-type: none"> <li>example: true</li> </ul>

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-app"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "2.0"</li><li>• "2.1"</li><li>• "2.2"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	False	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app

Name	Type	Required	Description
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> <li>• "deleting" - The application is in the process of being deleted</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The application has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The application has a protection policy defined, but is out of conformance with that policy</li> <li>• "none" - The application does not have a protection policy defined</li> <li>• "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
storageClassMapping	array[ <a href="#">storageClassMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
restoreFilter	<a href="#">restoreFilter</a>	False	<p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "mysql-old"
}
```

### Response

Status: 204, Indicates if the app resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	False	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>



### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

["app=mysql,version=2" ] — Select all resources that have a label whose name

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### namespaceMapping

Name	Type	Required	Description
source	string	False	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	False	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### storageClassMapping

Name	Type	Required	Description
source	string	False	<p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema if Storage Class name is used</li> <li>• '*' to specify all storage classes</li> </ul>
destination	string	False	<p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

#### GVKN

Name	Type	Required	Description
group	string	False	<p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>

Name	Type	Required	Description
version	string	False	<p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
kind	string	False	<p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> <li>• This string is internally validated against Astra /apiResources</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings describing namespaces to include or exclude resources from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
names	array[string]	False	<p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

Name	Type	Required	Description
resourceSelectionCriteria	string	True	JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude.

Name	Type	Required	Description
GVKN	array[GVKN]	True	JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an app

DELETE /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Removes the specified App API resource.

### Side Effects

- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer appear under /apps.
- First, the application goes into the deleting state and then deletes all associated schedules, snapshots, backups, and the stored application state.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the app collection to list

### Response

Status: 204, Indicates if the app resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/91",
  "title": "Application not deleted",
  "detail": "The application wasn't deleted because of an internal
server issue.",
  "status": "500"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/112",
  "title": "Application not ready",
  "detail": "The application is currently unavailable.",
  "status": "409"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# AppMirror

## AppMirror overview

The AppMirror API enables management of AppMirror relationships.

## Create a new AppMirror resource

POST /accounts/{account\_id}/k8s/v1/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

### Request Body

Indicates the desired values for the AppMirror API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

### Response

Status: 201, Returns the newly created appMirror resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>



Name	Type	Required	Description
healthStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```

```
],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]
```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses



Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all AppMirror resources

GET /accounts/{account\_id}/k8s/v1/appMirrors

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appMirror_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.1",
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaceMapping": [
        {
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
          "namespaces": [
            "ns1-src",
            "ns2-src"
          ]
        },
        {
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
          "namespaces": [
            "ns1-dest",
            "ns2-dest"
          ]
        }
      ],
      "state": "established",
      "stateTransitions": [
        {
          "from": "establishing",
          "to": [
            "established",
            "deleting"
          ]
        },
        {
          "from": "established",
          "to": [
            "failingOver",
            "deleting"
          ]
        }
      ],
    }
  ],
}
```

```

    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/1",
      "title": "AppMirror relationship established",
      "detail": "The AppMirror relationship has been successfully
established."
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    }
  ],
  {
    "from": "normal",

```

```

    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
  "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
  "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
  "destinationAppID": "e829c5e0-750f-44ad-a684-ae85be2c2bb",
  "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",

```

```

"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],

```



```

    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [],
  "transferState": "idle",
  "transferStateTransitions": [
    {
      "from": "transferring",
      "to": [
        "idle"
      ]
    },
    {
      "from": "idle",
      "to": [
        "transferring"
      ]
    }
  ],
  "transferStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination.",
      "additionalDetails": {
        "completionTime": "2023-07-06T22:46:39Z",
        "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
        "startTime": "2023-07-06T22:46:08Z"
      }
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",

```

```

    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2023-07-06T22:45:24Z",
    "modificationTimestamp": "2023-07-06T22:45:24Z",
    "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
  }
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### appMirror\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an AppMirror resource

GET /accounts/{account\_id}/k8s/v1/appMirrors/{appMirror\_id}

Returns the stored AppMirror API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
appMirror_id	string	path	True	ID of the appMirror collection to list

### Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>



Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "namespaceMapping": [
    {
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "namespaces": [
        "ns1-src",
        "ns2-src"
      ]
    },
    {
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaces": [
        "ns1-dest",
        "ns2-dest"
      ]
    }
  ],
  "state": "established",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",

```

```

        "deleting"
    ]
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ]
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
}
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/1",
        "title": "AppMirror relationship established",
        "detail": "The AppMirror relationship has been successfully
established."
    }
],
"healthState": "normal",
"healthStateTransitions": [
    {
        "from": "indeterminate",
        "to": [
            "normal",
            "warning",
            "critical"
        ]
    },
    {
        "from": "normal",
        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    }
]

```

```

    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an AppMirror resource

PUT /accounts/{account\_id}/k8s/v1/appMirrors/{appMirror\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Various side effects based on desiredState.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
appMirror_id	string	path	True	ID of the appMirror collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Various side effects based on desiredState.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	False	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	False	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	False	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>



### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

### Response

Status: 204, Indicates if the appMirror resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{  
  "type": "https://astra.netapp.io/problems/1",  
  "title": "Resource not found",  
  "detail": "The resource specified in the request URI wasn't found.",  
  "status": "404"  
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an AppMirror resource

DELETE /accounts/{account\_id}/k8s/v1/appMirrors/{appMirror\_id}

Removes the specified AppMirror API resource.

Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

### Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
appMirror_id	string	path	True	ID of the appMirror collection to list

### Response

```
Status: 204, Indicates if the appMirror resource was deleted.
```

### Response

```
Status: 401, Unauthorized
```

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new AppMirror resource for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource

### Request Body

Indicates the desired values for the AppMirror API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

### Response

Status: 201, Returns the newly created appMirror resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>



Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```

```
],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]
```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses



Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the AppMirror resources for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: appMirror_1.1_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.1",
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaceMapping": [
        {
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
          "namespaces": [
            "ns1-src",
            "ns2-src"
          ]
        },
        {
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
          "namespaces": [
            "ns1-dest",
            "ns2-dest"
          ]
        }
      ],
      "state": "established",
      "stateTransitions": [
        {
          "from": "establishing",
          "to": [
            "established",
            "deleting"
          ]
        },
        {
          "from": "established",
          "to": [
            "failingOver",
            "deleting"
          ]
        }
      ],
    }
  ],
}
```

```

    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/1",
      "title": "AppMirror relationship established",
      "detail": "The AppMirror relationship has been successfully
established."
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    }
  ],
  {
    "from": "normal",

```

```

        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ]
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ]
    }
],
"healthStateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/2",
        "title": "SnapMirror syncing successfully",
        "detail": "All SnapMirror relationships are synchronizing as
expected."
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
{
    "type": "application/astra-appMirror",
    "version": "1.1",
    "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
    "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
    "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "destinationAppID": "e829c5e0-750f-44ad-a684-ae85be2c2bb",
    "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",

```

```

"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],

```



```

    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [],
  "transferState": "idle",
  "transferStateTransitions": [
    {
      "from": "transferring",
      "to": [
        "idle"
      ]
    },
    {
      "from": "idle",
      "to": [
        "transferring"
      ]
    }
  ],
  "transferStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination.",
      "additionalDetails": {
        "completionTime": "2023-07-06T22:46:39Z",
        "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
        "startTime": "2023-07-06T22:46:08Z"
      }
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",

```

```

    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2023-07-06T22:45:24Z",
    "modificationTimestamp": "2023-07-06T22:45:24Z",
    "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
  }
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### appMirror\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an AppMirror resource for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors/{appMirror\_id}

Returns the stored AppMirror API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
appMirror_id	string	path	True	ID of the appMirror collection to list

### Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application.</p> <p>Only updated when swapping the sourceAppID with the destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application.</p> <p>This field is read-only and is determined based on the host cluster of the source application.</p> <p>If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application.</p> <p>Cannot be provided on create because a new app ID will be generated as part of relationship initialization.</p> <p>Can only be updated when swapping sourceAppID with the destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>



Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "namespaceMapping": [
    {
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "namespaces": [
        "ns1-src",
        "ns2-src"
      ]
    },
    {
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaces": [
        "ns1-dest",
        "ns2-dest"
      ]
    }
  ],
  "state": "established",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",

```

```

        "deleting"
    ]
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ]
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
}
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/1",
        "title": "AppMirror relationship established",
        "detail": "The AppMirror relationship has been successfully
established."
    }
],
"healthState": "normal",
"healthStateTransitions": [
    {
        "from": "indeterminate",
        "to": [
            "normal",
            "warning",
            "critical"
        ]
    },
    {
        "from": "normal",
        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    }
]

```

```

    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an AppMirror resource for an app

PUT /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors/{appMirror\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Various side effects based on desiredState.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
appMirror_id	string	path	True	ID of the appMirror collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Various side effects based on desiredState.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	False	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	False	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	False	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>



### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

### Response

Status: 204, Indicates if the appMirror resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"><li>• "source"</li><li>• "destination"</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
role	string	False	The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> <li>• "source"</li> <li>• "destination"</li> </ul>

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
additionalDetails	<a href="#">additionalDetails</a>	False	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an AppMirror resource for an app

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors/{appMirror\_id}

Removes the specified AppMirror API resource.

Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

### Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
appMirror_id	string	path	True	ID of the appMirror collection to list

### Response

```
Status: 204, Indicates if the appMirror resource was deleted.
```

### Response

```
Status: 401, Unauthorized
```

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Application Asset

## Application Asset overview

The Application Asset API provides access to internal collections of state information used to manage applications.

## List the application assets for an application backup

GET /accounts/{account\_id}/topology/v1/appBackups/{appBackup\_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
appBackup_id	string	path	True	ID of the containing appBackup resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: assetType,asset Name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

### type\_json

JSON object containing the entire content of the Kubernetes resource definition.

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^[a-z0-9A-Z_-]{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### appAsset\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
resource	<a href="#">type_json</a>	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application asset from an application backup

GET

/accounts/{account\_id}/topology/v1/appBackups/{appBackup\_id}/appAssets/{appAsset\_id}

Returns the stored Application Asset API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
appBackup_id	string	path	True	ID of the containing appBackup resource
appAsset_id	string	path	True	ID of the appAsset collection to list

## Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appAsset"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the application assets for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/apps/{app\_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: assetType,asset Name

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### appAsset\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application asset for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/apps/{app\_id}/appAssets/{appAsset\_id}

Returns the stored Application Asset API resource in the JSON response body.

### Parameters



Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the containing app resource
appAsset_id	string	path	True	ID of the appAsset collection to list

## Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appAsset"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels



Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the application assets for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: assetType,asset Name

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### appAsset\_1.1\_get\_response\_body



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
resource	<a href="#">type_json</a>	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application asset for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appAssets/{appAsset\_id}

Returns the stored Application Asset API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appAsset_id	string	path	True	ID of the appAsset collection to list

## Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appAsset"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response



Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the application assets from an application backup for an app

GET

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups/{appBackup\_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appBackup_id	string	path	True	ID of the containing appBackup resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: assetType,asset Name

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### appAsset\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application asset from an application backup for an app

GET

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups/{appBackup\_id}/appAssets/{appAsset\_id}

Returns the stored Application Asset API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appBackup_id	string	path	True	ID of the containing appBackup resource
appAsset_id	string	path	True	ID of the appAsset collection to list

## Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appAsset"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>



Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

### type\_json

JSON object containing the entire content of the Kubernetes resource definition.

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^[a-z0-9A-Z_-]{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List application assets for an application snapshot

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps/{appSnap\_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the containing appSnap resource
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>assetType,assetName</code></li> </ul>



Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### appAsset\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application asset for an application snapshot and app

GET

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps/{appSnap\_id}/appAssets/{appAsset\_id}

Returns the stored Application Asset API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the containing appSnap resource
appAsset_id	string	path	True	ID of the appAsset collection to list

## Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appAsset"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Application Backup

### Application Backup overview

The Application Backup API enables a user to create and view backups of a managed application.

### List all application backups

GET `/accounts/{account_id}/topology/v1/appBackups`

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,state</code></li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appBackup_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.2",
  "items": [
    [
      "5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "app-name-245",
      "pending"
    ],
    [
      "f8faa690-7e09-48a4-b33c-7965712acd0c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/96",
  "title": "Backups not listed",
  "detail": "The backups didn't list because of an internal server issue.",
  "status": "500"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

appBackup\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-appBackup"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "pending" - The application backup is scheduled for discovery</li><li>• "discovering" - The application backup is in the process of being discovered</li><li>• "running" - The application backup is running normally</li><li>• "completed" - The application backup has completed successfully</li><li>• "failed" - The application backup is in a permanent failure state</li><li>• "removed" - The application backup is not currently accessible</li><li>• "unknown" - The application backup state cannot be determined</li><li>• "deleting" - The application backup is scheduled for deletion</li></ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
totalBytes	number	False	JSON number containing the total number of bytes in the backup.
bytesDone	number	False	JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application backup

GET /accounts/{account\_id}/topology/v1/appBackups/{appBackup\_id}

Returns the stored Application Backup API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appBackup"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> <li>• "deleting" - The application backup is scheduled for deletion</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>

Name	Type	Required	Description
bytesDone	number	False	<p>JSON number containing the number of bytes backed up for a running backup.</p> <p>When the backup is completed, it matches with the totalBytes field.</p>
percentDone	number	False	<p>JSON number containing the percentage complete for a running backup.</p> <p>When the backup is completed, it is set to "100".</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/95",
  "title": "Backup not retrieved",
  "detail": "The backup wasn't retrieved because of an internal server issue.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete an application backup

DELETE /accounts/{account\_id}/topology/v1/appBackups/{appBackup\_id}

Removes the specified Application Backup API resource. Backups in progress will be canceled, and then deleted.

### Side Effects

- If a backup is complete, the backup data is deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 204, Indicates if the appBackup resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/97",
  "title": "Backup not deleted",
  "detail": "The backup wasn't deleted because of an internal server issue.",
  "status": "500"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/128",
  "title": "Backup cancellation not allowed",
  "detail": "A pending backup can't be canceled.",
  "status": "409"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new application backup for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups

Indicates the desired values for the Application Backup API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource

### Request Body

Indicates the desired values for the Application Backup API resource to be created.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-appBackup"</li> </ul>
version	string	True	<p>Version of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
name	string	False	<p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example request

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "name": "app-name-245"
}
```

### Response

Status: 201, Returns the newly created appBackup resource in the JSON response body.



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appBackup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
bucketID	string	True	<p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> <li>• "deleting" - The application backup is scheduled for deletion</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>

Name	Type	Required	Description
bytesDone	number	False	JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/94",
  "title": "Backup not created",
  "detail": "The backup wasn't created because of an internal server issue.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the application backups for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,state</code></li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appBackup_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.2",
  "items": [
    [
      "5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "app-name-245",
      "pending"
    ],
    [
      "f8faa690-7e09-48a4-b33c-7965712acd0c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/96",
  "title": "Backups not listed",
  "detail": "The backups didn't list because of an internal server issue.",
  "status": "500"
}
```



## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

appBackup\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-appBackup"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> <li>• "deleting" - The application backup is scheduled for deletion</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
totalBytes	number	False	JSON number containing the total number of bytes in the backup.
bytesDone	number	False	JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application backup for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups/{appBackup\_id}

Returns the stored Application Backup API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appBackup"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> <li>• "deleting" - The application backup is scheduled for deletion</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>

Name	Type	Required	Description
bytesDone	number	False	JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/95",
  "title": "Backup not retrieved",
  "detail": "The backup wasn't retrieved because of an internal server issue.",
  "status": "500"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete an application backup for an app

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups/{appBackup\_id}

Removes the specified Application Backup API resource. Backups in progress will be canceled, and then deleted.

### Side Effects

- If a backup is complete, the backup data is deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 204, Indicates if the appBackup resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/97",
  "title": "Backup not deleted",
  "detail": "The backup wasn't deleted because of an internal server issue.",
  "status": "500"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/128",
  "title": "Backup cancellation not allowed",
  "detail": "A pending backup can't be canceled.",
  "status": "409"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Application Snapshot

## Application Snapshot overview

The Application Snapshot API enables a user to create and view snapshots of a managed application.

## Create a new application snapshot for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps

Indicates the desired values for the Application Snapshot API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

Name	Type	In	Required	Description
app_id	string	path	True	ID of the containing app resource

### Request Body

Indicates the desired values for the Application Snapshot API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-appSnap"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
name	string	False	JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example request

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "name": "app-name-245"
}
```

### Response

Status: 201, Returns the newly created appSnap resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-appSnap"</li> </ul>
version	string	True	<p>Version of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	<p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "id": "4f56a1df-8f47-541a-bd81-77260053a2f6",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the application snapshots for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,state</code></li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">appSnap_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appSnaps",
  "version": "1.2",
  "items": [
    [
      "2b6dafc3-2172-4431-a482-6306b2703130",
      "app-name-245",
      "pending"
    ],
    [
      "6fd9b31a-3924-4c9a-878b-175fa9538b8c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

appSnap\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-appSnap"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDe tail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an application snapshot

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps/{appSnap\_id}

Returns the stored Application Snapshot API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the appSnap collection to list

## Response

Status: 200, Returns the stored Application Snapshot API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appSnap"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1" • "1.2"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>



## Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "id": "4f56a1df-8f47-541a-bd81-77260053a2f6",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete an application snapshot

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps/{appSnap\_id}

Removes the specified Application Snapshot API resource.

### Side Effects

- If a snapshot is in progress, the snapshot is cancelled.
- If a snapshot is complete, the snapshot data is deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the appSnap collection to list

### Response

Status: 204, Indicates if the appSnap resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/144",
  "title": "Backup in progress",
  "detail": "The snapshot wasn't deleted because it is currently being
  used by a backup.",
  "status": "409"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Bucket

### Bucket overview

The Bucket API provides access to buckets used to store application backups in Astra.



## Create a new bucket

POST /accounts/{account\_id}/topology/v1/buckets

Indicates the desired values for the Bucket API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the Bucket API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 256</li></ul>

Name	Type	Required	Description
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "Test Bucket",
  "credentialID": "d5b3854c-38de-42c6-9269-b5c052aba76f",
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  }
}
```

## Response

Status: 201, Returns the newly created bucket resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-assigned name for the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
retentionTime	number	False	<p>Number of seconds representing the time a file on this bucket will be retained for. Defined values are:</p> <ul style="list-style-type: none"> <li>• -1 (Unsupported bucket)</li> <li>• 0 (No known retention policy)</li> <li>• 0 (Known retention policy)</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.
azure	azure	False	JSON object that provides Azure protocol parameters.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

If not specified on create, a metadata object will be created with no labels.

If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all buckets

GET /accounts/{account\_id}/topology/v1/buckets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">bucket_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-buckets",
  "version": "1.2",
  "items": [
    [
      "4c753e39-25e9-4b36-a8de-69f168aa59cd",
      "Test Bucket",
      "gcp"
    ],
    [
      "d8fd585d-6429-4c08-a308-af193a88eac7",
      "Local",
      "ontap-s3"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
azure	azure	False	JSON object that provides Azure protocol parameters.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### bucket\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-bucket"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the bucket. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>

Name	Type	Required	Description
stateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
retentionTime	number	False	<p>Number of seconds representing the time a file on this bucket will be retained for. Defined values are:</p> <ul style="list-style-type: none"> <li>• -1 (Unsupported bucket)</li> <li>• 0 (No known retention policy)</li> <li>• 0 (Known retention policy)</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	bucketParameters	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Retrieve a bucket

GET /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Returns the stored Bucket API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
bucket_id	string	path	True	ID of the bucket collection to list

### Response

Status: 200, Returns the stored Bucket API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-assigned name for the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
retentionTime	number	False	<p>Number of seconds representing the time a file on this bucket will be retained for. Defined values are:</p> <ul style="list-style-type: none"> <li>• -1 (Unsupported bucket)</li> <li>• 0 (No known retention policy)</li> <li>• 0 (Known retention policy)</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "retentionTime": 57627,
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

gcp

JSON object that provides Google Cloud protocol parameters.



Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
azure	azure	False	JSON object that provides Azure protocol parameters.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a bucket

PUT /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
bucket_id	string	path	True	ID of the bucket collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 256</li></ul>

Name	Type	Required	Description
credentialID	string	False	<p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	False	<p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
provider	string	False	<p>JSON string indicating the bucket protocol that can be used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	False	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "New Bucket Name"
}
```

### Response

Status: 204, Indicates if the bucket resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	False	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	False	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	False	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	False	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	False	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
azure	azure	False	JSON object that provides Azure protocol parameters.

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field

Name	Type	Required	Description
reason	string	True	Reason why the request body field is invalid

## Delete a bucket

DELETE /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Removes the specified Bucket API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
bucket_id	string	path	True	ID of the bucket collection to list

### Response

Status: 204, Indicates if the bucket resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Certificate

## Certificate overview

The Certificate App API represents admin-trusted certificates that are used for establishing outgoing connections.

## Create a new certificate

POST /accounts/{account\_id}/core/v1/certificates

Indicates the desired values for the Certificate API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates the desired values for the Certificate API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-certificate"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
isSelfSigned	string	False	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul> </li> </ul>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted.</p> <p>If not specified on create, the default value is "trusted".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSB0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURSB0tLS0t"
}
```

### Response

Status: 201, Returns the newly created certificate resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-certificate"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
expiryTimestamp	string	True	<p>JSON string containing a timestamp indicating when the certificate expires.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
trustStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbcd4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtIBDRVJUSUZJQ0FURSOtLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURSOtLS0t",
  "cn": "vcenter.example.com",
  "isSelfSigned": "false",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "trustState": "trusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDesired": "trusted",
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 400, Bad request



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all certificates

GET /accounts/{account\_id}/core/v1/certificates

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
continue		query	False	Indicates the token to resume listing from. <p>URL examples:</p> <pre>"continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</pre> <p>OpenAPI examples:</p> <pre>"&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</pre>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> <ul style="list-style-type: none"> <li>• example: certUse%20eq%20'rootCA'</li> </ul>
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>• example: id,cn,isSelfSigned</li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">certificate_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-certificates",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "prod.region-1.example.com",
      "true"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "prod.region-2.example.com",
      "false"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "prod.example.com",
      "false"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/164",
  "title": "Requested resource in unexpected state",
  "detail": "The requested resource can't be returned because it isn't in the expected state. Wait for the conflict to be resolved and retry the request.",
  "status": "409"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

certificate\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-certificate"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 511</li></ul>
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"><li>• If the value is provided, that value will be used.</li><li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li><li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li></ul> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "true" - The certificate is self-signed.</li><li>• "false" - The certificate is not self-signed.</li></ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>



Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_up date	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a certificate

GET /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Returns the stored Certificate API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
certificate_id	string	path	True	ID of the certificate collection to list

### Response

Status: 200, Returns the stored Certificate API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-certificate"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
expiryTimestamp	string	True	<p>JSON string containing a timestamp indicating when the certificate expires.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbcd4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t",
  "cn": "vcenter.example.com",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "isSelfSigned": "true",
  "trustState": "untrusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters



### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/164",
  "title": "Requested resource in unexpected state",
  "detail": "The requested resource can't be returned because it isn't in the expected state. Wait for the conflict to be resolved and retry the request.",
  "status": "409"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a certificate

PUT /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Replaces the entire stored resource with the supplied JSON request body.

### Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".
- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
certificate_id	string	path	True	ID of the certificate collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body.

### Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".

- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-certificate"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>

Name	Type	Required	Description
cert	string	False	<p>JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
cn	string	False	<p>JSON string containing a common name extracted from the certificate. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
expiryTimestamp	string	False	<p>JSON string containing a timestamp indicating when the certificate expires. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
isSelfSigned	string	False	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul> </li> </ul>
trustState	string	False	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>



Name	Type	Required	Description
trustStateTransitions	array[ <a href="#">type_astra_stateTransition</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>
trustStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "trustStateDesired": "trusted"
}
```

### Response

Status: 204, Indicates if the certificate resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a certificate

DELETE /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Removes the specified Certificate API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
certificate_id	string	path	True	ID of the certificate collection to list

### Response

Status: 204, Indicates if the certificate resource was deleted.

### Response

Status: 503, Service unavailable



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

# Cloud

## Cloud overview

The Cloud API provides access to cloud resources to allow clients to connect to specific clouds to manage clusters and applications.

## Create a new cloud

POST /accounts/{account\_id}/topology/v1/clouds

Indicates the desired values for the Cloud API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the Cloud API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```

{
  "type": "application/astra-cloud",
  "version": "1.1",
  "name": "GKE",
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}

```

## Response

Status: 201, Returns the newly created cloud resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all clouds

GET /accounts/{account\_id}/topology/v1/clouds

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,state</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">cloud_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clouds",
  "version": "1.1",
  "items": [
    [
      "2f9e63fa-8ba8-414a-a57c-0f3042b80682",
      "gcp",
      "discovering"
    ],
    [
      "f723febe-b167-44dd-b07d-c075a8bbe4f3",
      "aws",
      "failed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### cloud\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cloud

GET /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Returns the stored Cloud API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
cloud_id	string	path	True	ID of the cloud collection to list

### Response

Status: 200, Returns the stored Cloud API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a cloud

PUT /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- An update will trigger a rediscovery of SAs and clusters.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the cloud collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- An update will trigger a rediscovery of SAs and clusters.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	False	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
state	string	False	<p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
cloudType	string	False	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-cloud",
  "version": "1.1"
}
```

### Response

Status: 204, Indicates if the cloud resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a cloud

DELETE /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Deletes the requested cloud instance and any non-managed clusters and volumes associated with that specific cloud.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the cloud collection to list

### Response

Status: 204, Indicates if the cloud resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/141",
  "title": "Action blocked: Delete cloud instance",
  "detail": "The cloud instance wasn't deleted because there are managed clusters associated with this cloud instance.",
  "status": "409"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

# Cluster

## Cluster overview

The Cluster API represents unmanaged Kubernetes clusters.

## Create a new cluster for a cloud

POST /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters

Indicates the desired values for the Cluster API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
cloud_id	string	path	True	ID of the containing cloud resource

## Request Body

Indicates the desired values for the Cluster API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li><li>• "1.4"</li><li>• "1.5"</li><li>• "1.6"</li></ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li></ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
connectorCapabilities	array[string]	False	Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.6",
  "name": "GKE-22",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}
```

### Response

Status: 201, Returns the newly created cluster resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-cluster"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>

Name	Type	Required	Description
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>



Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</p>

Name	Type	Required	Description
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema            If not specified on create, a metadata object will be created with no labels.            If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.6",
  "id": "b8c3bce9-5f8f-5f5a-a456-2b2eb6cfd2b6",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/64",
  "title": "Storage classes not found",
  "detail": "Storage classes from Trident weren't found.",
  "status": "500"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the clusters for a cloud

GET /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: <code>id,name,managedState</code></li></ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">cluster_1.6_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.6",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

cluster\_1.6\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>



Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated.</p> <p>If credentialID and a relay capable connector is provided, an error is generated.</p>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cluster for a cloud

GET /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}

Returns the stored Cluster API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 200, Returns the stored Cluster API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li><li>• "1.4"</li><li>• "1.5"</li><li>• "1.6"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>

Name	Type	Required	Description
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>

Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</p>



Name	Type	Required	Description
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema            If not specified on create, a metadata object will be created with no labels.            If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.6",
  "id": "b8c3bce9-5f8f-5f5a-a456-2b2eb6cfd2b6",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation
on the cluster.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a cluster for a cloud

PUT /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the cluster collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>

Name	Type	Required	Description
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>



Name	Type	Required	Description
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>

Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</p>

Name	Type	Required	Description
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.6"
}
```

### Response

Status: 204, Indicates if the cluster resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation on the cluster.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Delete a cluster for a cloud

DELETE /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}

Removes the specified Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 204, Indicates if the cluster resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List all clusters

GET /accounts/{account\_id}/topology/v1/clusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,managedState</li></ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">cluster_1.6_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.6",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```



**Definitions**

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

cluster\_1.6\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>



Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>"managed" - Trident instance on the cluster is managed by Astra</li> <li>"unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>"managed" - Manage Trident on this cluster</li> <li>"unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated.</p> <p>If credentialID and a relay capable connector is provided, an error is generated.</p>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Returns the stored Cluster API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 200, Returns the stored Cluster API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li><li>"1.4"</li><li>"1.5"</li><li>"1.6"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>

Name	Type	Required	Description
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>



Name	Type	Required	Description
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>

Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</p>

Name	Type	Required	Description
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema            If not specified on create, a metadata object will be created with no labels.            If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.6",
  "id": "b8c3bce9-5f8f-5f5a-a456-2b2eb6cfd2b6",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation
on the cluster.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a cluster

PUT /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
cluster_id	string	path	True	ID of the cluster collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>



Name	Type	Required	Description
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>

Name	Type	Required	Description
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>

Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated.</p>

Name	Type	Required	Description
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
connectorCapabilities	array[string]	False	<p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.6"
}
```

### Response

Status: 204, Indicates if the cluster resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation on the cluster.",
  "status": "500"
}
```

### Error

Status: 404, Not found



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a cluster

DELETE /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Removes the specified Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 204, Indicates if the cluster resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Cluster node

## Cluster node overview

The Cluster Node API provides access to the nodes associated with a cluster.

## List the cluster nodes for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  name,instanceT  ype</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "^[a-z0-9A-Z_-.]{1,63}\$"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cluster node for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/clusterNodes/{clusterNode\_id}

Returns the stored Cluster Node API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
clusterNode_id	string	path	True	ID of the clusterNode collection to list

## Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-clusterNode"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value that indicates the Kubernetes name for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	<p>JSON string containing a value that indicates the Kubernetes role for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the cluster nodes for a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: <code>name,instanceType</code></li></ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```



## Definitions

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cluster node for a cluster

GET

/accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/clusterNodes/{clusterNode\_id}

Returns the stored Cluster Node API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
cluster_id	string	path	True	ID of the containing cluster resource
clusterNode_id	string	path	True	ID of the clusterNode collection to list

## Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-clusterNode"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**



## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the cluster nodes for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: <code>name,instanceType</code></li></ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "^[a-z0-9A-Z_-.]{1,63}\$"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	



## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a cluster node for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/clusterNodes/{clusterNode\_id}

Returns the stored Cluster Node API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
clusterNode_id	string	path	True	ID of the clusterNode collection to list

## Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-clusterNode"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value that indicates the Kubernetes name for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	<p>JSON string containing a value that indicates the Kubernetes role for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>



Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Credential

## Credential overview

The Credential API provides access to securely persist objects containing sensitive information.

## Create a new credential

POST `/accounts/{account_id}/core/v1/credentials`

Indicates the desired values for the Credential API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the Credential API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-credential"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>

Name	Type	Required	Description
keyStore	keyStore	True	<p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.</li> </ul>
valid	string	False	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

- stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by159 the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "myCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

## Response

Status: 201, Returns the newly created credential resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 127</li></ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>

Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by<sup>163</sup> the name does not

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```

{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

Service (S3) access.

### Example response

- Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

with a value containing a base64-encoded S3 access

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.

Defined values are:

- Conforms to the base64 Encoded Data Schema  
No limits are placed on the lengths of the strings.

Hash mapping strings to string

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all credentials

GET /accounts/{account\_id}/core/v1/credentials

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
continue		query	False	Indicates the token to resume listing from. <p>URL examples:</p> <pre>"continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</pre> <p>OpenAPI examples:</p> <pre>"&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</pre>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>• example: id,name</li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">credential_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-credentials",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "myCert"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "kubeconfig"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "password"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### credential\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 127</li></ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <p>"generic" - The credential is a generic collection of data. This is</p>

Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

must exist within the keyStore with a value containing a base64-encoded cleartext password:

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

is performed as follows:

- A "certificate" string must exist within the keyStore, with a value containing a base64-encoded

## Retrieve a credential

GET /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Returns the stored Credential API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
credential_id	string	path	True	ID of the credential collection to list

### Response

Status: 200, Returns the stored Credential API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

value containing a base64-encoded PEM private key.

- "s3" - Indicates the credentials are for Simple Storage Service (S3) access.
- Extended validation is performed as follows:
  - An "accessKey" string must exist within the keyStore with a value containing a base64-encoded S3 access key.
  - An "accessSecret" string must exist within the keyStore with a value containing a base64-encoded S3 access secret.

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>

Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by `by183` the name does not

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

keyStore, with a value containing a base64-encoded PEM

encoded private key

exist within the keyStore, with a value containing a base64-encoded PEM private

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

Service (S3) access.

### Example response

- Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

with a value containing a base64-encoded S3 access

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a credential

PUT /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Parameters



Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
credential_id	string	path	True	ID of the credential collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-credential"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 127</li> </ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>

Name	Type	Required	Description
keyStore	keyStore	True	<p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.</li> </ul>
valid	string	False	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

- stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by `by191` the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "oldCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

## Response

Status: 204, Indicates if the credential resource was updated.

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Response

Status: 406, Not acceptable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

keyStore with a value containing a base64-encoded S3 access

## Response

Status: 500, Internal server error

string must exist

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

## Response

Status: 412, Precondition failed

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/38",
  "title": "Precondition not met",
  "detail": "The conditional headers aren't satisfied.",
  "status": "412"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/39",
  "title": "Credential exists",
  "detail": "A credential of this type already exists.",
  "status": "409"
}
```

### Response

Status: 502, Bad gateway

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/40",
  "title": "Communication failed",
  "detail": "Communication wasn't made with downstream services.",
  "status": "502"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```



## Error

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

## Definitions

## See Definitions

### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.

Defined values are:

- Conforms to the base64 Encoded Data Schema  
No limits are placed on the lengths of the strings.

Hash mapping strings to string

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a credential

DELETE /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Removes the specified Credential API resource.

### Side Effects

- If the credential being deleted is relied on by another resource or API, the deletion might cause unintended side effects within other APIs or the system as a whole.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
credential_id	string	path	True	ID of the credential collection to list

### Response

Status: 204, Indicates if the credential resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Entitlement

## Entitlement overview

The Entitlement API represents which features or capacities are enabled by the licenses and subscriptions active for an account.

## List all entitlements

GET /accounts/{account\_id}/core/v1/entitlements

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: product,entitlementType,entitlementValue,allocation</li> </ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>



Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">entitlement_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-entitlements",
  "version": "1.0",
  "items": [
    [
      "Astra SDS",
      "capacity",
      "2",
      null
    ],
    [
      "Astra Enterprise",
      "clusters",
      "100",
      "5e9fe8f7-4c54-441c-ac94-fd8451f9ca38"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### entitlement\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-entitlement"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

<b>Name</b>	<b>Type</b>	<b>Required</b>	<b>Description</b>
allocation	string	False	JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema.
product	string	False	JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema.
productVersion	string	False	JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema.
entitlementType	string	True	JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema.
entitlementValue	string	True	JSON string containing the capacity associated with the entitlement. String contents not validated by the schema.
entitlementConsumption	string	False	JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema.

Name	Type	Required	Description
sourceLicense	string	False	JSON string containing the license object ID that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceSubscription	string	False	JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an entitlement

GET /accounts/{account\_id}/core/v1/entitlements/{entitlement\_id}

Returns the stored Entitlement API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
entitlement_id	string	path	True	ID of the entitlement collection to list

### Response

Status: 200, Returns the stored Entitlement API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-entitlement"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema.
product	string	False	JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema.
productVersion	string	False	JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema.
entitlementType	string	True	JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema.

Name	Type	Required	Description
entitlementValue	string	True	JSON string containing the capacity associated with the entitlement. String contents not validated by the schema.
entitlementConsumption	string	False	JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema.
sourceLicense	string	False	<p>JSON string containing the license object ID that the entitlement is sourced from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceSubscription	string	False	<p>JSON string containing the ID of the subscription object that the entitlement is sourced from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the entitlement becomes valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-entitlement",
  "version": "1.0",
  "id": "8bdafc19-bde6-5f45-9808-4893c845c9f5",
  "product": "Astra SDS",
  "productVersion": "1.0",
  "entitlementType": "capacity",
  "entitlementValue": "2",
  "entitlementConsumption": "1",
  "sourceLicense": "c8aa757a-5318-489f-8134-a2a1a6956a3e",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Event

## Event overview

The Event API provides access to events occurring in the system.

## List all events

GET /accounts/{account\_id}/core/v1/events

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.



## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,summary</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">event_1.4_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-events",
  "version": "1.4",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "2064d1c1-4bc6-466e-9c30-b941a11be16a",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.



Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

event\_1.4\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-event"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li><li>• "1.4"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a dot notation (.) hierarchical name for the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: "[a-z](\.[a-z])+\$"</li> </ul>
sequenceCount	number	True	<p>JSON number containing a sequence count.</p> <p>The number is incremented by the system each time a new event is received.</p>
summary	string	True	<p>JSON string containing the short-form (less than 40 characters) summary of the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	<p>JSON string containing a timestamp that indicates when an event occurred.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: "[a-z]*"</li> </ul>

Name	Type	Required	Description
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code></li> </ul>

Name	Type	Required	Description
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>



Name	Type	Required	Description
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	JSON object containing additional event-specific information.
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an event

GET /accounts/{account\_id}/core/v1/events/{event\_id}

Returns the stored Event API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
event_id	string	path	True	ID of the event collection to list

### Response

Status: 200, Returns the stored Event API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-event"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> <li>"1.4"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>"</li> </ul>
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z-]*\$"</code></li> </ul>
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code></li> </ul>
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>



Name	Type	Required	Description
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>

Name	Type	Required	Description
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>

Name	Type	Required	Description
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
accountID	string	False	<p>JSON string containing the account ID associated with an event. Only included for events associated with an account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	<p>JSON object containing additional event-specific information.</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-event",
  "version": "1.4",
  "id": "c32df10b-8cfb-5a1e-9510-2a262b476009",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5dfd1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Execution Hook

### Execution Hook overview

The Execution Hook API enables simple management of execution hooks. Execution hooks contain additional configuration and references to a hook source resource.

### Create a new execution hook

POST /accounts/{account\_id}/core/v1/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>

## Request Body

Indicates the desired values for the Execution Hook API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"><li>• "netapp" - NetApp provided execution hook.</li><li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li></ul>

Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>

Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>

Name	Type	Required	Description
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

## Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>

Name	Type	Required	Description
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>



Name	Type	Required	Description
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.

Name	Type	Required	Description
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

#### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields



Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all execution hooks

GET /accounts/{account\_id}/core/v1/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHook_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

If not specified on create, a metadata object will be created with no labels.

If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### executionHook\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>

Name	Type	Required	Description
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an execution hook

GET /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>

Name	Type	Required	Description
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an execution hook

PUT /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	False	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	False	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	False	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	False	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

### Response

Status: 204, Indicates if the executionHook resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an execution hook

DELETE /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Removes the specified Execution Hook API resource.

### Side Effects

- The deleted execution hook will no longer run as part of future actions.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 204, Indicates if the executionHook resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### Create a new execution hook for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource

## Request Body

Indicates the desired values for the Execution Hook API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"><li>• "netapp" - NetApp provided execution hook.</li><li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li></ul>

Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>

Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run.</li> </ul> <p>The default value is "true".</p>

Name	Type	Required	Description
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

## Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>

Name	Type	Required	Description
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.

Name	Type	Required	Description
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

#### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the execution hooks for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"



Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHook_1.3_get_r</a> <a href="#">esponse_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### executionHook\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>Name must be unique across all execution hook resources.</p>
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>

Name	Type	Required	Description
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an execution hook for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>

Name	Type	Required	Description
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an execution hook for an app

PUT /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
executionHook_id	string	path	True	ID of the executionHook collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	False	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	False	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> <li>• "failover"</li> </ul>

Name	Type	Required	Description
stage	string	False	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post".</li> </ul>
hookSourceID	string	False	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

### Response

Status: 204, Indicates if the executionHook resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an execution hook for an app

DELETE

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Removes the specified Execution Hook API resource.

### Side Effects

- The deleted execution hook will no longer run as part of future actions.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 204, Indicates if the executionHook resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Execution Hook Override

### Execution Hook Override overview

The Execution Hook Override API allows a user to disable the preloaded "netapp" execution hooks for a specific application. **(NOTE BELOW API DEPRECATIONS)**

### Create a new execution hook override resource for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides

Indicates the desired values for the Execution Hook Override API resource to be created.



This operation is deprecated.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource

## Request Body

Indicates the desired values for the Execution Hook Override API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"><li>Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li></ul>

Name	Type	Required	Description
enabled	string	True	<p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> <li>"true" - The execution hook is enabled and will run in a specified order</li> <li>"false" - The execution hook is disabled and cannot run</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false"
}
```

### Response

Status: 201, Returns the newly created executionHookOverride resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li></ul>

Name	Type	Required	Description
enabled	string	True	<p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application with which the override is linked. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "id": "c11af802-5e53-5897-8cd9-2de730494be3",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false",
  "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the execution hook override resources for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.



This operation is deprecated.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHookOverride_1</a> , <a href="#">.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-executionHookOverrides",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "36d06222-bd0c-4897-89c2-c16dd9265e12",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    },
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "f8d1ce66-6c0e-4d3a-96c5-a5e76669442d",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "36b076ae-b7c4-4e96-a323-ed167ede74ba",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### executionHookOverride\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an execution hook override resource

GET

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides/{executionHookOverride\_id}

Returns the stored Execution Hook Override API resource in the JSON response body.



This operation is deprecated.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
executionHookOverride_id	string	path	True	ID of the executionHookOverride collection to list

### Response

Status: 200, Returns the stored Execution Hook Override API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "id": "c11af802-5e53-5897-8cd9-2de730494be3",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false",
  "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an execution hook override resource

PUT

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides/{executionHookOverride\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be disabled if the value of enabled is changed from "true" to "false" during the replace operation.
- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled if the value of enabled is changed from "false" to "true" during the replace operation.



This operation is deprecated.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
executionHookOverride_id	string	path	True	ID of the executionHookOverride collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be disabled if the value of enabled is changed from "true" to "false" during the replace operation.
- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled if the value of enabled is changed from "false" to "true" during the replace operation.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-executionHookOverride"
version	string	True	Version of the resource. Defined values are:  • "1.0"

Name	Type	Required	Description
id	string	False	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	False	<p>JSON string containing the ID of an execution hook. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	False	<p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application with which the override is linked. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "enabled": "false"
}
```

### Response

Status: 204, Indicates if the executionHookOverride resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an execution hook override resource

DELETE

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides/{executionHookOverride\_id}

Removes the specified Execution Hook Override API resource.

### Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled when a new execution hook override is deleted if it had an enabled value of "false".



This operation is deprecated.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
executionHookOverride_id	string	path	True	ID of the executionHookOverride collection to list

### Response

Status: 204, Indicates if the executionHookOverride resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Feature

### Feature overview

The Feature API provides read-only access to feature flag resources in order to determine which features are enabled or disabled in the system.

### List all features

GET /accounts/{account\_id}/core/v1/features

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples:  "orderBy=name",  "orderBy=name%20desc"</p> <p>OpenAPI examples:  "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples:  "skip=1"</p> <p>OpenAPI examples:  "1"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: feature_1.1_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-features",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-feature",
      "version": "1.0",
      "id": "c1d4d2f7-9b30-45a2-9657-8b24f17a4fd1",
      "name": "astra.account.rbac",
      "isEnabled": "true",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2021-02-19T22:10:22.448274Z",
        "modificationTimestamp": "2021-02-19T22:10:22.448274Z",
        "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb"
      }
    },
    {
      "type": "application/astra-feature",
      "version": "1.0",
      "id": "85c693cd-2f89-4944-982a-e885301162bd",
      "name": "astra.account.smtp",
      "isEnabled": "false",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2021-02-19T22:10:22.448274Z",
        "modificationTimestamp": "2021-02-19T22:10:22.448274Z",
        "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response



Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### feature\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-feature"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The feature flag is enabled.</li> <li>• "false" - The feature flag is disabled.</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a feature

GET /accounts/{account\_id}/core/v1/features/{feature\_id}

Returns the stored Feature API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
feature_id	string	path	True	ID of the feature collection to list

### Response

Status: 200, Returns the stored Feature API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-feature"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The feature flag is enabled.</li> <li>• "false" - The feature flag is disabled.</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-feature",
  "version": "1.1",
  "id": "2d960b50-10be-5a19-a3ef-80bd08c12a89",
  "name": "astra.account.rbac",
  "isEnabled": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response



Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Group

## Group overview

The Group API provides access to Astra group resources.

## Create a new group

POST /accounts/{account\_id}/core/v1/groups

Indicates the desired values for the Group API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates the desired values for the Group API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
name	string	False	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"><li>first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li><li>authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:<ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 2048</li></ul></li></ul>

Name	Type	Required	Description
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>"ldap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 2048</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com"
}
```

## Response

Status: 201, Returns the newly created group resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"><li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li><li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:<ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 2048</li></ul></li></ul>

Name	Type	Required	Description
authProvider	string	True	<p>The authentication provider for the group resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

## Response

Status: 406, Not acceptable

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all groups

GET /accounts/{account\_id}/core/v1/groups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,authProvider, authID</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">group_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-groups",
  "version": "1.1",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "ldap",
      "CN=Testers,CN=groups,DC=example,DC=com"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "ldap",
      "CN=Admins,CN=groups,DC=example,DC=com"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "ldap",
      "CN=SREs,CN=groups,DC=example,DC=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

Name	Type	Required	Description
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### group\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification.</li> </ul> Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}

Returns the stored Group API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the group collection to list

### Response

Status: 200, Returns the stored Group API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>
authProvider	string	True	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a group

PUT /accounts/{account\_id}/core/v1/groups/{group\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the group collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-group"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul> </li> </ul>
authProvider	string	False	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	False	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "my-qa-group",
  "authID": "CN=QA,CN=Groups,DC=example,DC=com"
}
```

### Response

Status: 204, Indicates if the group resource was updated.

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a group

DELETE /accounts/{account\_id}/core/v1/groups/{group\_id}

Removes the specified Group API resource.

### Side Effects

- The following resources associated with the group are deleted:

- Role bindings referring to the group

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the group collection to list

### Response

Status: 204, Indicates if the group resource was deleted.

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

## Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

## Error

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new group for a user

POST /accounts/{account\_id}/core/v1/users/{user\_id}/groups

Indicates the desired values for the Group API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource

### Request Body

Indicates the desired values for the Group API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-group"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
name	string	False	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul> </li> </ul>
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com"
}
```

### Response

Status: 201, Returns the newly created group resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-group"</li> </ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul> </li> </ul>
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>• "Idap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

## Response

Status: 406, Not acceptable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

## Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

## Error

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List groups for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/groups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,authProvider, authID</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>



Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: <continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">group_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-groups",
  "version": "1.1",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "ldap",
      "CN=Testers,CN=groups,DC=example,DC=com"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "ldap",
      "CN=Admins,CN=groups,DC=example,DC=com"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "ldap",
      "CN=SREs,CN=groups,DC=example,DC=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

Name	Type	Required	Description
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### group\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification.</li> </ul> Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a group for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}

Returns the stored Group API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the group collection to list

### Response

Status: 200, Returns the stored Group API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul> </li> </ul>
authProvider	string	True	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a group for a user

PUT /accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the group collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-group"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>
authProvider	string	False	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	False	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 2048</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "my-qa-group",
  "authID": "CN=QA,CN=Groups,DC=example,DC=com"
}
```

### Response

Status: 204, Indicates if the group resource was updated.

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a group for a user

DELETE /accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}

Removes the specified Group API resource.

### Side Effects

- The following resources associated with the group are deleted:

- Role bindings referring to the group

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the group collection to list

## Response

Status: 204, Indicates if the group resource was deleted.

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

## Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

## Error

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Hook source

### Hook source overview

The Hook Source API enables simple management of hook sources separate from the management of the execution hook resources. For example, a single hook source can be referenced by multiple execution hooks to avoid duplicate hook sources and allow a single API call to update one hook source, even if it is used by multiple execution hook resources.

### Create a new hook source

POST /accounts/{account\_id}/core/v1/hookSources

Indicates the desired values for the Hook Source API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

### Request Body

Indicates the desired values for the Hook Source API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-hookSource"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63 The name is required to be unique within all hook source resources.</li> </ul>
sourceType	string	True	JSON string defining the hook source type. Defined values are: <ul style="list-style-type: none"> <li>"script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>



Name	Type	Required	Description
source	string	True	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "name": "Payroll script",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for payroll"
}
```

## Response

Status: 201, Returns the newly created hookSource resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```



## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all hook sources

GET /accounts/{account\_id}/core/v1/hookSources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">hookSource_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-hookSources",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "2d6154dd-6863-4a26-8017-6be092b8b0bd",
      "name": "Payroll script",
      "private": "false",
      "preloaded": "false",
      "sourceType": "script",
      "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
      "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "b71c6793-aa9b-4654-92ef-60663a0aedac",
      "name": "Payroll script",
      "private": "true",
      "preloaded": "false",
      "sourceType": "script",
      "sourceMD5Checksum": "6469094cb279f6d91358bc5062d15baf",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-08T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-08T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "682fe9d2-52d2-4c30-bcec-ecefddde359c",
      "name": "NetApp preloaded ",

```

```

    "private": "true",
    "preloaded": "false",
    "sourceType": "script",
    "sourceMD5Checksum": "7864495443c1087104520a320a2225c9",
    "description": "NetApp Postgres preloaded snapshot pre and post",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-07-12T12:24:52.256624Z",
      "modificationTimestamp": "2020-07-12T12:24:52.256624Z",
      "createdBy": "4428cfd4-27fd-4248-9f49-bd3a02043ab8"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### hookSource\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a hook source

GET /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Returns the stored Hook Source API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

### Response

Status: 200, Returns the stored Hook Source API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters



### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a hook source

PUT /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.

- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.
- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-hookSource"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	False	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	False	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	False	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	False	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "source": "ZWNobyAiVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for order processing v2"
}
```

### Response

Status: 204, Indicates if the hookSource resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response



Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a hook source

DELETE /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Removes the specified Hook Source API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

### Response

Status: 204, Indicates if the hookSource resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Kubernetes API Resource

## Kubernetes API Resource overview

The Kubernetes API Resource API provides read-only access to Kubernetes API resources to filter the ones supported by Astra on a given cluster.

## List the K8s API resources for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/apiResources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: id,kind,apiVersion</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: apiResource_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-apiResources",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "ClusterRole",
      "rbac.authorization.k8s.io/v1"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "ClusterRoleBinding",
      "rbac.authorization.k8s.io/v1"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### apiResource\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-apiResource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
apiVersion	string	True	<p>JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a></p>
kind	string	True	<p>JSON string representing the kind of the resource, as set in or by Kubernetes. The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a></p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a K8s API resource

GET

```
/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apiResources/{apiResource_id}
```

Returns the specific API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
apiResource_id	string	path	True	ID of the apiResource collection to list

## Response

Status: 200, Returns the specific API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-apiResource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
apiVersion	string	True	JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a>



Name	Type	Required	Description
kind	string	True	<p>JSON string representing the kind of the resource, as set in or by Kubernetes.</p> <p>The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated.</p> <p>More info:  <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a></p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```

{
  "type": "application/astra-apiResource",
  "version": "1.0",
  "id": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "kind": "ClusterRole",
  "apiVersion": "rbac.authorization.k8s.io/v1",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# LDAP Group

## LDAP Group overview

The LDAP Group API provides read-only access to LDAP groups within the configured LDAP server.

## List all LDAP groups

GET /accounts/{account\_id}/core/v1/ldapGroups

Returns a JSON array of JSON objects containing the results of the request URL.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,cn,dn</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.

Name	Type	Required	Description
items	array[Any of: ldapGroup_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-ldapGroups",
  "version": "1.0",
  "items": [
    [
      "4a461f57-70e6-5732-882e-8d5f684f15a1",
      "boulder_sysadmins",
      "cn=boulder_sysadmins,ou=groups,dc=example,dc=com"
    ],
    [
      "da4bbb6f-8f2c-57eb-a9cf-6eefbf9e35d",
      "rtp_sysadmins",
      "cn=rtp_sysadmins,ou=groups,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



Name	Type	Required	Description
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

### Response

Status: 406, Not acceptable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### ldapGroup\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-ldapGroup"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an LDAP group

GET /accounts/{account\_id}/core/v1/ldapGroups/{ldapGroup\_id}

Returns a JSON object representing the stored LDAP resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
ldapGroup_id	string	path	True	ID of the ldapGroup collection to list

### Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-ldapGroup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-ldapGroup",
  "version": "1.0",
  "id": "cb05a289-a7a1-502c-a2bc-7e75dba8fddc",
  "cn": "boulder_sysadmins",
  "dn": "cn=boulder_sysadmins,ou=groups,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response



Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## LDAP User

### LDAP User overview

The LDAP User API provides read-only access to LDAP users within the configured LDAP server.

### List all LDAP users

GET /accounts/{account\_id}/core/v1/ldapUsers

Returns a JSON array of JSON objects containing the results of the request URL.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,cn,dn</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.

Name	Type	Required	Description
items	array[Any of: ldapUser_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-ldapUsers",
  "version": "1.0",
  "items": [
    [
      "b4bcef18-14ad-5bc1-91ce-3cce15aa8791",
      "John Doe",
      "cn=John Doe,ou=people,dc=example,dc=com"
    ],
    [
      "98b10d6f-8693-555f-b258-70de4cc7301f",
      "Jane Doe",
      "cn=Jane Doe,ou=people,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

### Response

Status: 406, Not acceptable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

### Response

Status: 500, Internal server error

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

### Error

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### ldapUser\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-ldapUser"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
email	string	False	JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 63</li> </ul>
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an LDAP user

GET /accounts/{account\_id}/core/v1/ldapUsers/{ldapUser\_id}

Returns a JSON object representing the stored LDAP resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
ldapUser_id	string	path	True	ID of the ldapUser collection to list

## Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-ldapUser"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
email	string	False	JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 3</li> <li>Maximum length: 63</li> </ul>

Name	Type	Required	Description
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-ldapUser",
  "version": "1.0",
  "id": "2add73ff-89dc-5ff1-be85-39d97549556d",
  "email": "<a href="
mailto:johndoe@example.com">johndoe@example.com</a>",
  "firstName": "John",
  "lastName": "Doe",
  "cn": "John Doe",
  "dn": "cn=John Doe,ou=people,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## License

### License overview

The License API represents licenses loaded into the account.

### Create a new license

POST /accounts/{account\_id}/core/v1/licenses

Indicates the desired values for the License API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates the desired values for the License API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"><li>Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

## Response

Status: 201, Returns the newly created license resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	<p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>

Name	Type	Required	Description
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
product	string	True	JSON string containing the product string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.

Name	Type	Required	Description
addons	array[ <a href="#">addons</a> ]	False	<p>JSON array of JSON objects containing the list of add-ons from the license.</p> <p>An add-on is a change in license occurring at a potential future date.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema.</li> </ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all licenses

GET /accounts/{account\_id}/core/v1/licenses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,product</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: license_1.0_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-licenses",
  "version": "1.0",
  "items": [
    [
      "c8aa757a-5318-489f-8134-a2a1a6956a3e",
      "Astra SDS"
    ],
    [
      "0f7cc03d-9afc-4192-af7f-b29ab24f8f2a",
      "Astra Enterprise"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### license\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-license"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>



Name	Type	Required	Description
validFromTimestamp	string	True	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	JSON string containing the product string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a license

GET /accounts/{account\_id}/core/v1/licenses/{license\_id}

Returns the stored License API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
license_id	string	path	True	ID of the license collection to list

### Response

Status: 200, Returns the stored License API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-license"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	<p>JSON string containing the product string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	<p>JSON string containing the version string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	<p>JSON string containing the serial number string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a license

PUT /accounts/{account\_id}/core/v1/licenses/{license\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
license_id	string	path	True	ID of the license collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-license"
version	string	True	Version of the resource. Defined values are:  • "1.0"

Name	Type	Required	Description
id	string	False	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	<p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
isEvaluation	string	False	<p>JSON string indicating whether the license is an evaluation license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	False	<p>JSON string containing the license protocol extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	False	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license becomes valid.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	False	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	False	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	False	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	False	<p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
capacity	string	False	JSON string containing the capacity extracted from the license.
capacity2	string	False	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

## Response

Status: 204, Indicates if the license resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields



Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a license

DELETE /accounts/{account\_id}/core/v1/licenses/{license\_id}

Removes the specified License API resource. The automatically installed evaluation license cannot be deleted.

### Side Effects

- Entitlements are recalculated to remove the license entitlements visible through the Entitlement API. If the automatically installed evaluation license was present on this system before deletion, it is reapplied to the system automatically.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
license_id	string	path	True	ID of the license collection to list

### Response

Status: 204, Indicates if the license resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Managed cluster

## Managed cluster overview

The Managed Cluster API represents managed Kubernetes clusters.

## Create a new managed cluster

POST /accounts/{account\_id}/topology/v1/managedClusters

Indicates desired values for the Managed Cluster API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

## Request Body

Indicates desired values for the Managed Cluster API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: <ul style="list-style-type: none"><li>• "managed" - Manage Trident on this cluster</li><li>• "unmanaged" - Do not manage Trident on this cluster</li></ul>

Name	Type	Required	Description
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.3",
  "id": "b82af145-054d-5f0d-bf47-3d22457a8b99",
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "tridentManagedStateDesired": "managed"
}
```

### Response

Status: 201, Returns the newly created managedCluster resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>



Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>



Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.3",
  "id": "b82af145-054d-5f0d-bf47-3d22457a8b99",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all managed clusters

GET /accounts/{account\_id}/topology/v1/managedClusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,managedState</li></ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">managedCluster_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-managedClusters",
  "version": "1.3",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

managedCluster\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>



Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If not included, it has not yet been discovered.</p>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a managed cluster

GET /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Returns the stored Managed Cluster API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 200, Returns the stored Managed Cluster API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-managedCluster"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>



Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.3",
  "id": "b82af145-054d-5f0d-bf47-3d22457a8b99",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "true",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a managed cluster

PUT /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-managedCluster"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1" • "1.2" • "1.3"

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	False	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>



Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>



Name	Type	Required	Description
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
metadata	type_astra_metadata_update	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.3",
  "defaultStorageClass": "0b146cda-7fc1-4f32-804c-8130a38a7e1c"
}
```

### Response

Status: 204, Indicates if the managedCluster resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a managed cluster

DELETE /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Removes the specified Managed Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 204, Indicates if the managedCluster resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Metrics

### Metrics overview

The Metrics API represents metrics associated with a given account.

### Retrieve all metrics for an account

GET /accounts/{account\_id}/metrics

Returns all metrics for the account

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

## Response

Status: 200, Returns a OpenMetrics text document containing all metrics for the account.

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

# Namespace

## Namespace overview

The Namespace API provides read-only access to namespace resources in order to describe namespaces associated with a given cluster.

## List the namespaces for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)



Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/namespaces/{namespace\_id}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
namespace_id	string	path	True	ID of the namespace collection to list

## Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>

Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the namespaces for a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>
cluster_id	string	path	True	ID of the containing cluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a cluster

GET

```
/accounts/{account_id}/topology/v1/clusters/{cluster_id}/namespaces/{namespace_id}
}
```

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
cluster_id	string	path	True	ID of the containing cluster resource
namespace_id	string	path	True	ID of the namespace collection to list

## Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>



Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"discovered" - The namespace has been found in the cluster</li> <li>"removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	



## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List all namespaces

GET /accounts/{account\_id}/topology/v1/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	



## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace

GET /accounts/{account\_id}/topology/v1/namespaces/{namespace\_id}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
namespace_id	string	path	True	ID of the namespace collection to list

### Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-namespace"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>

Name	Type	Required	Description
namespaceStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the namespaces for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>



Name	Type	Required	Description
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/namespaces/{namespace\_id}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
namespace_id	string	path	True	ID of the namespace collection to list

## Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
links	array[type_astra_link]	True	Links describing supported operations against the resource.
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>

Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

targetSchema

accept-post

accept-put

hints

Name	Type	Required	Description
status	string	False	
allow	array[string]	False	
accept-post	<a href="#">accept-post</a>	False	
permissions	array[string]	False	
accept-put	<a href="#">accept-put</a>	False	

type\_astra\_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	<a href="#">targetSchema</a>	False	
title	string	False	
hints	<a href="#">hints</a>	False	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Notification

## Notification overview

The Notification API provides per-user access to events with a notification destination.

## List all notifications

GET /accounts/{account\_id}/core/v1/notifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>• example: id,summary</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p> <ul style="list-style-type: none"> <li>• example: 4</li> </ul>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> <li>• example: true</li> </ul>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">notification_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-notifications",
  "version": "1.3",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "275a8c6f-ebf6-4d10-b671-77d1b8c7c0a6",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

notification\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-notification"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a dot notation (.) hierarchical name for the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
sequenceCount	number	True	<p>JSON number containing a sequence count.</p> <p>The number is incremented by the system each time a new event is received.</p>
summary	string	True	<p>JSON string containing the short-form (less than 40 characters) summary of the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	<p>JSON string containing a timestamp that indicates when an event occurred.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z]*\$"</code></li> </ul>

Name	Type	Required	Description
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-[a-zA-Z]+\$"</code></li> </ul>



Name	Type	Required	Description
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Included only for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	JSON object containing additional event-specific information.
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a notification

GET /accounts/{account\_id}/core/v1/notifications/{notification\_id}

Returns the stored Notification API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
notification_id	string	path	True	ID of the notification collection to list

### Response

Status: 200, Returns the stored Notification API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-notification"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> </ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z-]*\$"</code></li> </ul>
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+\$"</code></li> </ul>
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>

Name	Type	Required	Description
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Included only for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>

Name	Type	Required	Description
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
accountID	string	False	<p>JSON string containing the account ID associated with an event. Only included for events associated with an account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	<p>JSON object containing additional event-specific information.</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## Example response

```
{
  "type": "application/astra-notification",
  "version": "1.3",
  "id": "03c645d6-75f0-59b0-95f2-862ae344ea27",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5df1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "destinations": [
    "notification"
  ],
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  }
}
```

```
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Package

### Package overview

The Package API represents installable software packages.

### Create a new package

POST /accounts/{account\_id}/core/v1/packages

Indicates desired values for the Package API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>

### Request Body

Indicates desired values for the Package API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 31</li> <li>Example values are: <ul style="list-style-type: none"> <li>"acc"</li> <li>"acs"</li> <li>"trident"</li> </ul> </li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>"install"</li> <li>"patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.

Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
images	array[ <a href="#">images</a> ]	False	JSON array of JSON objects, each containing a Docker image that is part of the package.
artifacts	array[ <a href="#">artifacts</a> ]	False	JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.
files	array[ <a href="#">files</a> ]	False	JSON array of JSON objects, each representing a non-image artifact associated with this package.
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li></ul>

## Example request

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-provider",
      "imageTag": "1.3.116",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-backend-metrics",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "credentials",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c322445654e33642da781a161f1be239853dae33deaf
c"
    }
  ],
  "files": [
    {
      "fileName": "astra_control_center_min.yaml",
      "fileIdentifier": "astra_min",
      "fileMediaType": "application/x-yaml",
      "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZWQgZmlsZSBjb250ZW50"
    }
  ],
  "dependencies": [
    {
```

```

    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.22"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]
}

```

## Response

Status: 201, Returns the newly created package resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
packageName	string	True	<p>JSON string containing the package name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> <p>Example values are:</p> <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	<p>JSON string containing the SemVer of the package.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	<p>JSON string containing the package type, indicating whether this is a full installation package or a patch.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	<p>JSON array of JSON strings containing the name of the bundle that the package is contained in.</p>

Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```



```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZXNzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### dependsOnImages

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

### images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li> </ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install or upgrade the current image.

dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>



Name	Type	Required	Description
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[dependsOnComponents]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

#### files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
fileIdentifier	string	True	<p>JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	<p>JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a>. In addition, application/x-yaml or application/x-yaml for yaml files is supported.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	<p>JSON string containing the file content. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### additionalDetails

#### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all packages

GET /accounts/{account\_id}/core/v1/packages

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,packageName  ,packageVersion  ,softwareType</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">package_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-packages",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "acc",
      "22.01.0",
      "install"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "acc",
      "22.01.1",
      "patch"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

dependsOnImages

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> <li>Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li> </ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install or upgrade the current image.

#### dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>"acc"</li> <li>"acs"</li> <li>"trident"</li> <li>"kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

#### artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> </ul>

Name	Type	Required	Description
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[dependsOnComponents]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
fileIdentifier	string	True	JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a> . In addition, application/x-yaml or application/x-yaml for yaml files is supported. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	JSON string containing the file content. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.



Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### package\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> Example values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.

Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a package

GET /accounts/{account\_id}/core/v1/packages/{package\_id}

Returns the stored Package API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
package_id	string	path	True	ID of the package collection to list

### Response

Status: 200, Returns the stored Package API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> Example values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.



Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```

```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

dependsOnImages

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
imagePath	string	True	JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> <li>Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li> </ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install or upgrade the current image.

#### dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>"acc"</li> <li>"acs"</li> <li>"trident"</li> <li>"kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

#### artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> </ul>

Name	Type	Required	Description
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[dependsOnComponents]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
fileIdentifier	string	True	JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a> . In addition, application/x-yaml or application/x-yaml for yaml files is supported. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	JSON string containing the file content. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a package

DELETE /accounts/{account\_id}/core/v1/packages/{package\_id}

Removes the specified Package API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
package_id	string	path	True	ID of the package collection to list

### Response

Status: 204, Indicates if the package resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response



Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Role binding

### Role binding overview

The Role Binding API describes the relationships between the user-account pairs, or group-account pairs, along with the sets of permissions they are granted (roles).

### Create a new role binding for a group

POST /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource

#### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>



Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "group",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the role bindings for a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: accountID,userI D,role
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.



Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding for a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response



Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a group

PUT /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a group

DELETE

/accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding for a user in a group

POST

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response



Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the role bindings for a user in a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: accountID,userI D,role
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Retrieve a role binding for a user in a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a user in a group

PUT

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a user in a group

DELETE

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding

POST /accounts/{account\_id}/core/v1/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema              If not specified on create, a nil UUID will be used.              Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource.            For create, this must match the account ID in the request URI.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid



## List all role bindings

GET /accounts/{account\_id}/core/v1/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: accountID,userI D,role</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding

GET /accounts/{account\_id}/core/v1/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	<p>JSON string containing the ID of an account resource.</p> <p>For create, this must match the account ID in the request URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding

PUT /accounts/{account\_id}/core/v1/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding

DELETE /accounts/{account\_id}/core/v1/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions



## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding for a user

POST /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource.            For create, this must match the account ID in the request URI.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the role bindings for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: accountID,userID,role</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	<p>JSON string containing the ID of an account resource.</p> <p>For create, this must match the account ID in the request URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	<p>JSON string containing one of the four defined roles.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a user

PUT /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a user

DELETE

/accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding for a group associated with a user

POST

/accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the containing group resource

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>



Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "group",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the role bindings for a group associated with a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the containing group resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: accountID,userI D,role
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```



**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	<p>JSON string containing the ID of an account resource.</p> <p>For create, this must match the account ID in the request URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding for a group associated with a user

GET

/accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.



Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a group associated with a user

PUT

/accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a group associated with a user

### DELETE

/accounts/{account\_id}/core/v1/users/{user\_id}/groups/{group\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	



Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Schedule

### Schedule overview

The Schedule API allows various scheduled data protection operations to be defined.

### Create a new schedule for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules

Indicates desired values for the Schedule API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource

### Request Body

Indicates desired values for the Schedule API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	False	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>

Name	Type	Required	Description
minute	string	False	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"            This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly".            It will be returned with value "0" for custom schedules.</code></li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>

Name	Type	Required	Description
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9] [1-2][0-9] [3][0-1]"</code> This field is only present if granularity is set to "monthly".</li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported.</p> <p>For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 [1-9][0-9]*)"</code></li> </ul>

Name	Type	Required	Description
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
replicate	string	False	<p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

### Response

Status: 201, Returns the newly created schedule resource in the JSON response body.



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	<p>JSON string indicating the granularity of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly".</li> </ul>

Name	Type	Required	Description
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[0-7]\$" <p>This field is only present if granularity is set to "weekly".</p> </li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[1-9] [1-2][0-9] [3][0-1]\$" <p>This field is only present if granularity is set to "monthly".</p> </li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```



## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the schedules for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,granularity</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">schedule_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-schedules",
  "version": "1.3",
  "items": [
    [
      "0d6d20d6-8b7c-498a-b57b-5734210c209a",
      "Backup Schedule",
      "monthly"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### schedule\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-schedule"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>

Name	Type	Required	Description
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"            This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</code></li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>

Name	Type	Required	Description
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$"            This field is only present if granularity is set to "monthly".</code></li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule.</p> <p>For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported.</p> <p>For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"true" - The schedule triggers AppMirror replication</li> <li>"false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a schedule

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Returns the stored Schedule API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

### Response

Status: 200, Returns the stored Schedule API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	<p>JSON string indicating the granularity of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly".</li> </ul>



Name	Type	Required	Description
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[0-7]\$" <p>This field is only present if granularity is set to "weekly".</p> </li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[1-9] [1-2][0-9] [3][0-1]\$" <p>This field is only present if granularity is set to "monthly".</p> </li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a schedule

PUT /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-schedule"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	False	<p>JSON string containing a name of the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	False	<p>JSON string indicating if a schedule is active. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> <p>If not specified, the default value is "true".</p>
granularity	string	False	<p>JSON string indicating the granularity of the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	False	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</li> </ul>

Name	Type	Required	Description
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$"            This field is only present if granularity is set to "monthly".</code></li> </ul>

Name	Type	Required	Description
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported.</p> <p>For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: "^(0 ([1-9][0-9]*))\$"</li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: "^(0 ([1-9][0-9]*))\$"</li> </ul>

Name	Type	Required	Description
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
replicate	string	False	<p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "granularity": "daily",
  "minute": "0",
  "hour": "0",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

### Response

Status: 204, Indicates if the schedule resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a schedule

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Removes the specified Schedule API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

### Response

Status: 204, Indicates if the schedule resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Setting

## Setting overview

An account setting is a collection of key/value pairs that are important for a known feature in an Astra account. The Setting API provides access to important information about an account setting.

## List all settings

GET /accounts/{account\_id}/core/v1/settings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"
skip	string	query	False	Indicates the number of resources to skip over when listing a collection.  URL examples: "skip=1"  OpenAPI examples: "1"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">setting_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-settings",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-setting",
      "version": "1.0",
      "id": "5da0a2ed-c51d-4d91-8b98-ed3aa8a88cc5",
      "name": "astra.account.smtp",
      "currentConfig": {
        "credential": "",
        "isEnabled": "false",
        "port": 587,
        "relayServer": "smtp.sendgrid.net"
      },
      "configSchema": {
        "$schema": "http://json-schema.org/draft-07/schema#",
        "title": "astra.account.smtp",
        "type": "object",
        "properties": {
          "credential": {
            "type": "string",
            "description": "The credential ID for SMTP authentication."
          },
          "isEnabled": {
            "type": "string",
            "description": "This property determines if this setting is
enabled or not."
          },
          "port": {
            "type": "integer",
            "description": "The SMTP port. For an unencrypted or a TLS
connection, use port 25, 2525, or 587."
          },
          "relayServer": {
            "type": "string",
            "description": "This setting is sometimes referred to as
the external SMTP server or the SMTP relay."
          }
        },
        "additionalProperties": false,
        "required": [
          "relayServer",
          "port",
```



```

        "isEnabled"
      ]
    },
    "state": "valid",
    "stateUnready": [],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2021-06-04T20:14:52Z",
      "modificationTimestamp": "2021-06-04T20:14:52Z",
      "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb",
      "modifiedBy": "65e1571b-1b46-4f05-95b0-7d7f5a93da6a"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### setting\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the setting, in hierarchal dot notation (.).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.</li> </ul>
currentConfig	type_json	True	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>

Name	Type	Required	Description
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field.</p> <p>The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>
configSchema	type_json_schema	True	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.</p> <p>If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"valid" - The current configuration matches the desired config.</li> <li>"pending" - The desired configuration is being applied.</li> <li>"error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 127</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a setting

GET /accounts/{account\_id}/core/v1/settings/{setting\_id}

Returns the stored Setting API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
setting_id	string	path	True	ID of the setting collection to list

### Response

Status: 200, Returns the stored Setting API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul> This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.

Name	Type	Required	Description
currentConfig	type_json	True	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>

Name	Type	Required	Description
configSchema	type_json_schema	True	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "valid" - The current configuration matches the desired config.</li> <li>• "pending" - The desired configuration is being applied.</li> <li>• "error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-setting",
  "version": "1.1",
  "id": "ea510866-47d3-5130-8468-563df4cd6a28",
  "name": "astra.account.smtp",
  "currentConfig": {
    "credential": "",
    "isEnabled": "false",
    "port": 587,
    "relayServer": "smtp.sendgrid.net"
  },
  "configSchema": {
    "$schema": "http://json-schema.org/draft-07/schema#",
    "title": "astra.account.smtp",
    "type": "object",
    "properties": {
      "credential": {
        "type": "string",
        "description": "The credential ID for SMTP authentication."
      },
      "isEnabled": {
        "type": "string",
        "description": "This property determines if this setting is
enabled or not."
      },
      "port": {
        "type": "integer",
        "description": "The SMTP port. For an unencrypted or a TLS
connection, use port 25, 2525, or 587."
      },
      "relayServer": {
        "type": "string",
        "description": "This setting is sometimes referred to as the
external SMTP server or the SMTP relay."
      }
    },
    "additionalProperties": false,
    "required": [
      "relayServer",
      "port",
      "isEnabled"
    ]
  },
  "state": "valid",
}
```

```
"stateUnready": [],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a setting

PUT /accounts/{account\_id}/core/v1/settings/{setting\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
setting_id	string	path	True	ID of the setting collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul> This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.

Name	Type	Required	Description
currentConfig	type_json	False	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>

Name	Type	Required	Description
configSchema	type_json_schema	False	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "valid" - The current configuration matches the desired config.</li> <li>• "pending" - The desired configuration is being applied.</li> <li>• "error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-setting",
  "version": "1.1",
  "desiredConfig": {
    "credential": "e3d2ea77-398e-49be-85fd-ec66d9426a06",
    "port": 587,
    "relayServer": "<a href="
http://smtp.sendgrid.net>smtp.sendgrid.net</a>",
    "isEnabled": "true"
  }
}
```

### Response

Status: 204, Indicates if the setting resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Response

Status: 503, Service unavailable

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Storage backend

### Storage backend overview

The Storage Backend API provides access to representations of providers of storage services (storage backends) that can be used by managed clusters and applications.

### Create a new storage backend

POST /accounts/{account\_id}/topology/v1/storageBackends

Indicates desired values for the Storage Backend API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

## Request Body

Indicates desired values for the Storage Backend API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> </ul>
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>"ontap" - The storage backend represents a NetApp ONTAP system</li> <li>enum: ["ontap"]</li> <li>example: ontap</li> </ul>



Name	Type	Required	Description
backendVersion	string	False	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	False	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendCredentialsName": "st1-45-cred"
}
```

## Response

Status: 201, Returns the newly created storageBackend resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-storageBackend"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
backendName	string	True	<p>JSON string containing a user-specified name for the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	True	<p>JSON string containing a value indicating the type of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>
backendVersion	string	True	<p>JSON string containing a value indicating the version of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
capabilities	<a href="#">capabilities</a>	True	<p>JSON object containing this Storage Backend capabilities.</p>

Name	Type	Required	Description
ontap	ontap	False	<p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> <li>• additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "id": "04ad4237-3c89-5ca5-8a40-282ab5eb6428",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendVersion": "9.8",
  "backendCredentialsName": "st1-45-cred",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "protectionState": "unknown",
  "protectionStateUnready": [
    "Waiting for storage backend discovery"
  ],
  "ontap": {
    "authenticationStyle": "basic",
    "backendManagementIP": "10.193.179.105",
    "managementIPs": [
      "10.193.188.110",
      "10.193.179.105",
      "10.193.179.106"
    ]
  },
  "capabilities": {
    "flexClone": "true",
    "snapMirror": "true",
    "s3": "true"
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### capabilities

JSON object containing this Storage Backend capabilities.

Name	Type	Required	Description
flexClone	string	True	JSON string indicating if this Storage Backend supports FlexClone.
snapMirror	string	True	JSON string indicating if this Storage Backend supports SnapMirror.
s3	string	True	JSON string indicating if this Storage Backend supports s3.

### ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
authenticationStyle	string	True	<p>JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "basic" - Uses username/password</li> <li>• "certificate" - Uses certificate</li> <li>• enum: ["basic", "certificate"]</li> <li>• example: basic</li> </ul>
backendManagementIP	string	False	<p>JSON string containing the IP address used to connect to this ONTAP cluster.</p>
managementIPs	array[string]	False	<p>JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster.</p> <p>This is used to correlate backends detected through Trident and storage backends in Astra.</p> <ul style="list-style-type: none"> <li>• uniqueItems: 1</li> </ul>

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all storage backends

GET /accounts/{account\_id}/topology/v1/storageBackends

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,state</code></li> </ul>



Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageBackend_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-storageBackends",
  "version": "1.3",
  "items": [
    [
      "d6ee1e51-d65f-415a-a3d4-6d7fa8b64943",
      "st1-45",
      "running"
    ],
    [
      "a5c508b7-aacd-4d19-9455-53c0d183ab4e",
      "st2-67",
      "discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

capabilities

JSON object containing this Storage Backend capabilities.

Name	Type	Required	Description
flexClone	string	True	JSON string indicating if this Storage Backend supports FlexClone.
snapMirror	string	True	JSON string indicating if this Storage Backend supports SnapMirror.
s3	string	True	JSON string indicating if this Storage Backend supports s3.

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
authenticationStyle	string	True	JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are: <ul style="list-style-type: none"><li>• "basic" - Uses username/password</li><li>• "certificate" - Uses certificate</li><li>• enum: ["basic", "certificate"]</li><li>• example: basic</li></ul>
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.

Name	Type	Required	Description
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra.  <ul style="list-style-type: none"> <li>• uniqueItems: 1</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### storageBackend\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>



Name	Type	Required	Description
backendVersion	string	True	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
capabilities	capabilities	True	<p>JSON object containing this Storage Backend capabilities.</p>

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters.  <ul style="list-style-type: none"> <li>additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	Client and service-specified metadata associated with the resource. Defined values are:  <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage backend

GET /accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}

Returns the stored Storage Backend API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
storageBackend_id	string	path	True	ID of the storageBackend collection to list

### Response

Status: 200, Returns the stored Storage Backend API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-storageBackend"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>
backendVersion	string	True	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>



Name	Type	Required	Description
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>

Name	Type	Required	Description
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.</p> <p>"unknown" for ONTAP.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>

Name	Type	Required	Description
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
capabilities	capabilities	True	JSON object containing this Storage Backend capabilities.
ontap	ontap	False	<p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> <li>• additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "id": "04ad4237-3c89-5ca5-8a40-282ab5eb6428",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendVersion": "9.8",
  "backendCredentialsName": "st1-45-cred",
  "state": "discovered",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "unknown",
  "protectionStateUnready": [
    "Waiting for storage backend discovery"
  ],
  "capabilities": {
    "flexClone": "true",
    "snapMirror": "true",
    "s3": "true"
  },
  "ontap": {
    "authenticationStyle": "basic",
    "backendManagementIP": "10.193.179.105",
    "managementIPs": [
      "10.193.188.110",
      "10.193.179.105",
      "10.193.179.106"
    ]
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

capabilities

JSON object containing this Storage Backend capabilities.

Name	Type	Required	Description
flexClone	string	True	JSON string indicating if this Storage Backend supports FlexClone.
snapMirror	string	True	JSON string indicating if this Storage Backend supports SnapMirror.
s3	string	True	JSON string indicating if this Storage Backend supports s3.

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
authenticationStyle	string	True	JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are: <ul style="list-style-type: none"><li>• "basic" - Uses username/password</li><li>• "certificate" - Uses certificate</li><li>• enum: ["basic", "certificate"]</li><li>• example: basic</li></ul>
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.

Name	Type	Required	Description
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra.  <ul style="list-style-type: none"> <li>• uniqueItems: 1</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Modify a storage backend

PUT /accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Specifying a configuration version results in storage backend type-specific configuration changes being applied, which can include the initial installation of a storage backend.
- Specifying a configuration version might result in storageClass resources being added, modified, or removed.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
storageBackend_id	string	path	True	ID of the storageBackend collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Specifying a configuration version results in storage backend type-specific configuration changes being applied, which can include the initial installation of a storage backend.
- Specifying a configuration version might result in storageClass resources being added, modified, or removed.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	False	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>

Name	Type	Required	Description
backendVersion	string	False	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	False	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. <ul style="list-style-type: none"> <li>additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "backendName": "st1-46"
}
```

### Response

Status: 204, Indicates if the storageBackend resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"><li>• uniqueItems: 1</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	



Name	Type	Required	Description
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a storage backend

DELETE /accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}

Removes the specified Storage Backend API resource.

### Side Effects

- All backendConfig resources associated with the storage backend are removed.
- All backendNode resources associated with the storage backend are removed.
- The storage backend might be removed.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
storageBackend_id	string	path	True	ID of the storageBackend collection to list

## Response

Status: 204, Indicates if the storageBackend resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Storage class

### Storage class overview

The Storage Class API describes storage classes known to a given cluster.

### List the storage classes for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: <code>id,name</code></li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>



Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the storage classes for a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>



Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a cluster

GET

/accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageClass"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the storage classes for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageClass"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>



Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Subscription

### Subscription overview

The Subscription API provides access to subscription resources in order to represent active subscriptions.

### Create a new subscription

POST /accounts/{account\_id}/core/v1/subscriptions

Indicates desired values for the Subscription API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates desired values for the Subscription API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-subscription"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
customerProfileID	string	False	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 0</li><li>Maximum length: 63</li></ul>

Name	Type	Required	Description
paymentFirstName	string	False	<p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentLastName	string	False	<p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentAddress	<a href="#">paymentAddress</a>	False	<p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.</p> <p>If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p>
paymentProfileID	string	False	<p>JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term.</p> <p>Returns an empty string during read operation if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net(<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
marketplace	string	False	<p>JSON string indicating the marketplace for an account where payments will be recorded.</p> <p>Defined values:</p> <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
terms	string	True	<p>JSON string indicating the current tier of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>



Name	Type	Required	Description
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "terms": "trial"
}
```

### Response

Status: 201, Returns the newly created subscription resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-subscription"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
purchaseOrderNumber	string	False	<p>JSON string containing the purchase order number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	<p>JSON string indicating the marketplace for an account where payments will be recorded.</p> <p>Defined values:</p> <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	<p>JSON string containing the license serial number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable.

Name	Type	Required	Description
onboardStatus	string	True	<p>JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	True	<p>JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars</p>
costPerNamespaceUnit	number	True	<p>JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "id": "40b4106f-b743-5d83-95c7-d539b2b45f63",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-02-01T00:00:00Z",
  "purchaseOrderNumber": "72384632",
  "marketplace": "netapp",
  "licenseSN": "278343",
  "terms": "trial",
  "status": "active",
  "appLimit": 0,
  "namespaceLimit": 10,
  "subscriptionPeriod": 90,
  "gracePeriod": 7,
  "reminderBeforePeriod": 30,
  "onboardStatus": "in progress",
  "costPerAppUnit": 0,
  "costPerNamespaceUnit": 0.005,
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```



## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.

If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all subscriptions

GET /accounts/{account\_id}/core/v1/subscriptions

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples:  "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples:  "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples:  "count=true"</p> <p>OpenAPI examples:  "true"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"
skip	string	query	False	Indicates the number of resources to skip over when listing a collection.  URL examples: "skip=1"  OpenAPI examples: "1"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">subscription_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-subscriptions",
  "version": "1.2",
  "items": [
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "d4c865c9-64a7-4661-ae4a-3307dffcd3da",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-02-01T00:00:00Z",
      "purchaseOrderNumber": "72384632",
      "marketplace": "netapp",
      "licenseSN": "278343",
      "terms": "trial",
      "status": "inactive",
      "appLimit": 0,
      "namespaceLimit": 10,
      "subscriptionPeriod": 90,
      "gracePeriod": 7,
      "reminderBeforePeriod": 30,
      "onboardStatus": "success",
      "costPerAppUnit": 0,
      "costPerNamespaceUnit": 0.005,
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-05-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-05-06T12:24:52.256624Z",
        "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
      }
    },
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "4c43ed8b-078f-4fe3-b8c6-5d515f6382e6",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-05-01T00:00:00Z",
      "purchaseOrderNumber": "92374658",
      "marketplace": "netapp",
      "licenseSN": "374623",
      "terms": "paid",
      "status": "active",
      "appLimit": 0,
    }
  ]
}
```



```

"namespaceLimit": -1,
"subscriptionPeriod": -1,
"gracePeriod": -1,
"reminderBeforePeriod": -1,
"onboardStatus": "success",
"costPerAppUnit": 0,
"costPerNamespaceUnit": 0.005,
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### subscription\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-subscription"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from <a href="#">authorize.net</a> ( <a href="http://authorize.net">http://authorize.net</a> ) and is set by the UI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> This field is not returned for trial terms.

Name	Type	Required	Description
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>

Name	Type	Required	Description
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable.
onboardStatus	string	True	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>



Name	Type	Required	Description
costPerAppUnit	number	True	JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars
costPerNamespaceUnit	number	True	JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a subscription

GET /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Returns the stored Subscription API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
subscription_id	string	path	True	ID of the subscription collection to list

### Response

Status: 200, Returns the stored Subscription API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-subscription"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
purchaseOrderNumber	string	False	<p>JSON string containing the purchase order number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	<p>JSON string indicating the marketplace for an account where payments will be recorded.</p> <p>Defined values:</p> <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	<p>JSON string containing the license serial number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable.

Name	Type	Required	Description
onboardStatus	string	True	<p>JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	True	<p>JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars</p>
costPerNamespaceUnit	number	True	<p>JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "id": "40b4106f-b743-5d83-95c7-d539b2b45f63",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-02-01T00:00:00Z",
  "purchaseOrderNumber": "72384632",
  "marketplace": "netapp",
  "licenseSN": "278343",
  "terms": "trial",
  "status": "active",
  "onboardStatus": "success",
  "costPerAppUnit": 0,
  "costPerNamespaceUnit": 0.005,
  "appLimit": 0,
  "namespaceLimit": 10,
  "subscriptionPeriod": 90,
  "gracePeriod": 7,
  "reminderBeforePeriod": 30,
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a subscription

PUT /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".

- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
subscription_id	string	path	True	ID of the subscription collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".
- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-subscription"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
customerProfileID	string	False	<p>JSON string containing the customer profile ID from <a href="#">Authorize.net</a>, which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentFirstName	string	False	<p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentLastName	string	False	<p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentAddress	<a href="#">paymentAddress</a>	False	<p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.</p> <p>If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p>

Name	Type	Required	Description
paymentProfileID	string	False	<p>JSON string containing the payment profile ID from <a href="https://authorize.net">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from <a href="https://authorize.net">authorize.net</a> (<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
purchaseOrderNumber	string	False	<p>JSON string containing the purchase order number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
terms	string	False	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	False	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>
appLimit	number	False	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	False	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.

Name	Type	Required	Description
subscriptionPeriod	number	False	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	False	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	False	JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable.
onboardStatus	string	False	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	False	JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars
costPerNamespaceUnit	number	False	JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-05-01T00:00:00Z"
}
```

### Response

Status: 204, Indicates if the subscription resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.

If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a subscription

DELETE /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Removes the specified Subscription API resource.

### Side Effects

- Subscription is deleted along with all the charges associated with it.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
subscription_id	string	path	True	ID of the subscription collection to list

### Response

Status: 204, Indicates if the subscription resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Task

### Task overview

The Task App API provides access to managed task resources in order to represent long-running tasks.

### List all tasks

GET /accounts/{account\_id}/core/v1/tasks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">task_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-tasks",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-task",
      "version": "1.0",
      "id": "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "name": "astra.backup.prep",
      "summary": "Backup preparation",
      "description": "Task to prepare for the application backup",
      "service": "nautilus",
      "parentTaskID": "9cc8c321-6af1-406c-8158-2c6582c247f8",
      "userID": "abda967f-cd2c-4237-908e-99266648c553",
      "resourceID": "626a0978-d55f-4841-8b7c-dc0c0f592c6f",
      "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-675cef4cf6c9/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "resourceCollectionURI": [
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c",
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c"
      ],
      "state": "running",
      "stateTransitions": [
        {
          "from": "running",
          "to": [
            "paused",
            "cancelled"
          ]
        },
        {
          "from": "paused",
          "to": [

```

```

        "running",
        "cancelled"
    ]
}
],
"stateDetails": [],
"orderHint": 0,
"percentDone": 20.25,
"startTime": "2020-08-06T12:24:52.256624Z",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "00000000-0000-0000-0000-000000000000"
}
},
{
    "type": "application/astra-task",
    "version": "1.0",
    "id": "bc1e6561-9e22-406c-8a5a-762f4604da00",
    "name": "astra.backup",
    "summary": "Backup",
    "description": "Task to take a Backup for an application",
    "service": "nautilus",
    "userID": "abda967f-cd2c-4237-908e-99266648c553",
    "resourceID": "736a0978-d55f-4841-8b7c-dc0c0f592c6f",
    "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-675cef4cf6c9/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f",
    "resourceCollectionURI": [
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f",
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f"
    ],
    "state": "completed",
    "stateTransitions": [
        {

```

```

    "from": "running",
    "to": [
      "paused",
      "cancelled"
    ]
  },
  {
    "from": "paused",
    "to": [
      "running",
      "cancelled"
    ]
  }
],
"stateDetails": [],
"orderHint": 0,
"percentDone": 100,
"startTime": "2020-08-06T12:24:52.256624Z",
"endTime": "2020-08-06T12:26:52.256624Z",
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "00000000-0000-0000-0000-000000000000"
}
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

task\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-task"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 3</li> <li>Maximum length: 127</li> <li>Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 3</li> <li>Maximum length: 63</li> </ul>
description	string	True	JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 511</li> </ul>

Name	Type	Required	Description
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
userID	string	False	JSON string containing the user ID associated with a task. Only included for tasks associated with user-initiated actions. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceID	string	True	JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceURI	string	True	JSON string containing the URI associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
resourceCollectionURI	array[string]	True	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the task.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notStarted" - The task has not started executing.</li> <li>• "running" - The task is running.</li> <li>• "completed" - The task has completed.</li> <li>• "pausing" - The task was requested to pause.</li> <li>• "paused" - The task is paused.</li> <li>• "cancelling" - The task was requested to cancel.</li> <li>• "cancelled" - The task is cancelled.</li> <li>• "failed" - The task has failed.</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> <p>For example:  "stateTransitions" : [ { "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"] }, ]</p>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
orderHint	number	False	<p>JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100".
startTime	string	False	JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a task

GET /accounts/{account\_id}/core/v1/tasks/{task\_id}

Returns the stored Task API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
task_id	string	path	True	ID of the task collection to list

### Response

Status: 200, Returns the stored Task API resource in the JSON response body.



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-task"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>"</li> </ul>
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 63</li> </ul>
description	string	True	JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
userID	string	False	JSON string containing the user ID associated with a task. Only included for tasks associated with user-initiated actions. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceID	string	True	JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceURI	string	True	JSON string containing the URI associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
resourceCollectionURI	array[string]	True	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the task. Defined values are:</p> <ul style="list-style-type: none"> <li>• "notStarted" - The task has not started executing.</li> <li>• "running" - The task is running.</li> <li>• "completed" - The task has completed.</li> <li>• "pausing" - The task was requested to pause.</li> <li>• "paused" - The task is paused.</li> <li>• "cancelling" - The task was requested to cancel.</li> <li>• "cancelled" - The task is cancelled.</li> <li>• "failed" - The task has failed.</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> <p>For example:</p> <pre>"stateTransitions" : [ {   "from": "running", "to":   ["paused",   "cancelled"] }, { "from":   "paused", "to":   ["running",   "cancelled"] }, ]</pre>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
orderHint	number	False	<p>JSON number representing the order of subtasks.</p> <p>This field can be used by the client to sort subtasks from smallest to largest.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100".
startTime	string	False	JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-task",
  "version": "1.1",
  "id": "26e8e8ef-5549-5928-98dd-2c3d43a608e8",
  "name": "astra.backup.prep",
  "summary": "Backup preparation",
  "description": "Task to prepare for the application backup",
  "service": "nautilus",
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "parentTaskID": "9cc8c321-6af1-406c-8158-2c6582c247f8",
  "resourceID": "626a0978-d55f-4841-8b7c-dc0c0f592c6f",
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-
675cef4cf6c9/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130",
  "resourceCollectionURI": [
    "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-
815af6186a06/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130",
    "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-
815af6186a06/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130"
  ],
  "state": "running",
  "stateTransitions": [
    {
      "from": "running",
      "to": [
        "paused",
        "cancelled"
      ]
    },
    {
      "from": "paused",
      "to": [
        "running",
        "cancelled"
      ]
    }
  ]
}
```

```

],
"stateDetails": [],
"orderHint": 0,
"percentDone": 20.25,
"startTime": "2020-08-06T12:24:52.256624Z",
"endTime": "2020-08-06T12:26:52.256624Z",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Token

### Token overview

The Token API enables users to create and manage API access tokens.

### Create a new token for a user in a group

POST /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/tokens

Indicates desired values for the Token API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource

#### Request Body

Indicates desired values for the Token API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-token"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "Snapshot Script"
}
```

## Response

Status: 201, Returns the newly created token resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
token	string	True	<p>JSON string containing a base64-encoded system-generated API token.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```

{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "token": "QSBKV1QgVG9rZW4gd291bGQgZ28gaGVyZS4=",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the tokens for a user in a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/tokens

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">token_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-tokens",
  "version": "1.0",
  "items": [
    [
      "4e99da96-152e-4aee-9207-4b6d04d2238d",
      "Snapshot Script"
    ],
    [
      "43ab09af-e558-4b1b-a6d5-49df7c39f22c",
      "Snapshot Taker"
    ],
    [
      "cca48856-9e25-4170-b49a-d32265c5e5f1",
      "Volume Checker"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```



**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### token\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a token for a user in a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/tokens/{token\_id}

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

## Response

Status: 200

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a token for a user in a group

PUT

```
/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens/{token_id}
}
```

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a token name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	False	<p>JSON string containing the UUID for the user that the token is associated with.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema            If not specified on create, a metadata object will be created with no labels.            If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "New Token Name"
}
```

### Response

Status: 204, Indicates if the token resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{  
  "type": "https://astra.netapp.io/problems/1",  
  "title": "Resource not found",  
  "detail": "The resource specified in the request URI wasn't found.",  
  "status": "404"  
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a token for a user in a group

DELETE

```
/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens/{token_id}
```

Removes the specified Token API resource.

### Side Effects

- The corresponding API token credential is removed from the credential service as a side effect.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Response

Status: 204, Indicates if the token resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new token for a user

POST /accounts/{account\_id}/core/v1/users/{user\_id}/tokens

Indicates desired values for the Token API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource

### Request Body

Indicates desired values for the Token API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a token name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "Snapshot Script"
}
```

### Response

Status: 201, Returns the newly created token resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
token	string	True	<p>JSON string containing a base64-encoded system-generated API token.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "token": "QSBKV1QgVG9rZW4gd291bGQgZ28gaGVyZS4=",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the tokens for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/tokens

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">token_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-tokens",
  "version": "1.0",
  "items": [
    [
      "4e99da96-152e-4aee-9207-4b6d04d2238d",
      "Snapshot Script"
    ],
    [
      "43ab09af-e558-4b1b-a6d5-49df7c39f22c",
      "Snapshot Taker"
    ],
    [
      "cca48856-9e25-4170-b49a-d32265c5e5f1",
      "Volume Checker"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### token\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a token

GET /accounts/{account\_id}/core/v1/users/{user\_id}/tokens/{token\_id}

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Response

Status: 200

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a token

PUT /accounts/{account\_id}/core/v1/users/{user\_id}/tokens/{token\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-token"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>JSON string containing a token name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	False	<p>JSON string containing the UUID for the user that the token is associated with.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "New Token Name"
}
```

### Response

Status: 204, Indicates if the token resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields



## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{  
  "type": "https://astra.netapp.io/problems/1",  
  "title": "Resource not found",  
  "detail": "The resource specified in the request URI wasn't found.",  
  "status": "404"  
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a token

DELETE /accounts/{account\_id}/core/v1/users/{user\_id}/tokens/{token\_id}

Removes the specified Token API resource.

### Side Effects

- The corresponding API token credential is removed from the credential service as a side effect.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Response

```
Status: 204, Indicates if the token resource was deleted.
```

### Response

```
Status: 401, Unauthorized
```

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Unread Notification

## Unread Notification overview

The Unread Notification API provides information on notifications that have not been read by a given user and to allow them to be marked as read.

## List the unread notifications for a user in a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/unreadNotifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  notificationID,sequenceCount</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p> <ul style="list-style-type: none"> <li>example: 2</li> </ul>



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> <ul style="list-style-type: none"> <li>• example: count%20desc</li> </ul>

Name	Type	In	Required	Description
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> <li>• example: true</li> </ul>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: unreadNotification_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-unreadNotifications",
  "version": "1.0",
  "items": [
    [
      "4080cf5f-2261-4130-b8fb-8432e2e553e6",
      48923
    ],
    [
      "1b4e89f1-2e70-4a08-a015-e7064b0fb703",
      47345
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### unreadNotification\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-unreadNotification"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
notificationID	string	True	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
sequenceCount	number	True	JSON number containing a sequence count associated with the notification specified by the notification ID.



Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an unread notification for a user in a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/unreadNotifications/{unreadNotification\_id}

Returns the stored Unread Notification API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
unreadNotification_id	string	path	True	ID of the unreadNotification collection to list

## Response

Status: 200, Returns the stored Unread Notification API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-unreadNotification"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
notificationID	string	True	<p>JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sequenceCount	number	True	<p>JSON number containing a sequence count associated with the notification specified by the notification ID.</p>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-unreadNotification",
  "version": "1.0",
  "id": "10df997b-629e-50f8-bc5f-a18b9a4ac5f6",
  "notificationID": "4080cf5f-2261-4130-b8fb-8432e2e553e6",
  "sequenceCount": 48923,
  "severity": "warning",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete an unread notification for a user in a group

DELETE

/accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}/unreadNotifications/{unreadNotification\_id}

Removes the specified Unread Notification API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the containing user resource
unreadNotification_id	string	path	True	ID of the unreadNotification collection to list

### Response

Status: 204, Indicates if the unreadNotification resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the unread notifications for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/unreadNotifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: <code>notificationID,sequenceCount</code></li></ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> <ul style="list-style-type: none"> <li>• example: 2</li> </ul>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples:  "orderBy=name",  "orderBy=name%20desc"</p> <p>OpenAPI examples:  "name desc"</p> <ul style="list-style-type: none"> <li>example: count%20desc</li> </ul>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples:  "skip=1"</p> <p>OpenAPI examples:  "1"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples:  "count=true"</p> <p>OpenAPI examples:  "true"</p> <ul style="list-style-type: none"> <li>example: true</li> </ul>

Name	Type	In	Required	Description
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples:  "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples:  "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: unreadNotification_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-unreadNotifications",
  "version": "1.0",
  "items": [
    [
      "4080cf5f-2261-4130-b8fb-8432e2e553e6",
      48923
    ],
    [
      "1b4e89f1-2e70-4a08-a015-e7064b0fb703",
      47345
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### unreadNotification\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-unreadNotification"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
notificationID	string	True	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
sequenceCount	number	True	JSON number containing a sequence count associated with the notification specified by the notification ID.

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an unread notification

GET

/accounts/{account\_id}/core/v1/users/{user\_id}/unreadNotifications/{unreadNotification\_id}

Returns the stored Unread Notification API resource in the JSON response body.

### Parameters



Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the containing user resource
unreadNotification_id	string	path	True	ID of the unreadNotification collection to list

## Response

Status: 200, Returns the stored Unread Notification API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-unreadNotification"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
notificationID	string	True	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sequenceCount	number	True	JSON number containing a sequence count associated with the notification specified by the notification ID.
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-unreadNotification",
  "version": "1.0",
  "id": "10df997b-629e-50f8-bc5f-a18b9a4ac5f6",
  "notificationID": "4080cf5f-2261-4130-b8fb-8432e2e553e6",
  "sequenceCount": 48923,
  "severity": "warning",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete an unread notification

DELETE

/accounts/{account\_id}/core/v1/users/{user\_id}/unreadNotifications/{unreadNotification\_id}

Removes the specified Unread Notification API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
unreadNotification_id	string	path	True	ID of the unreadNotification collection to list

### Response

Status: 204, Indicates if the unreadNotification resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Upgrade

## Upgrade overview

The Upgrade App API provides access to software components that are eligible for upgrade, and to initiate upgrades. The availability of upgrades is determined based on packages registered with the Packages API.

## List all upgrades

GET /accounts/{account\_id}/core/v1/upgrades

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,componentName,upgradeVersion</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: upgrade_1.1_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-upgrades",
  "version": "1.1",
  "items": [
    [
      "01982783-b1eb-4dca-a3fe-a385a3186c53",
      "acc",
      "21.07.1"
    ],
    [
      "0a5abab2-39b2-4101-87b9-0d9b8f537ca1",
      "acc",
      "21.07.2"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

upgrade\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-upgrade"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
componentName	string	True	JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	True	JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	True	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
upgradeVersion	string	True	<p>JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
currentVersion	string	True	<p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
dependencies	array[string]	True	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "unavailable" - The upgrade is not available at this time</li> <li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li> <li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li> <li>• "running" - The upgrade is in progress</li> <li>• "complete" - The upgrade has completed</li> <li>• "failed" - The upgrade did not complete</li> </ul>

Name	Type	Required	Description
stateDesired	string	True	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an upgrade

GET /accounts/{account\_id}/core/v1/upgrades/{upgrade\_id}

Returns the stored Upgrade API resource in the JSON response body.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
upgrade_id	string	path	True	ID of the upgrade collection to list

## Response

Status: 200, Returns the stored Upgrade API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-upgrade"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
componentName	string	True	<p>JSON string containing the name of the type of software that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	True	<p>JSON string containing the URI of the component that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	True	<p>JSON string containing a globally unique identifier of the component that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
upgradeVersion	string	True	<p>JSON string containing the SemVer of the software image file that can be upgraded to.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
currentVersion	string	True	<p>JSON string containing the current SemVer of the entity to be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>



Name	Type	Required	Description
dependencies	array[string]	True	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "unavailable" - The upgrade is not available at this time</li> <li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li> <li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li> <li>• "running" - The upgrade is in progress</li> <li>• "complete" - The upgrade has completed</li> <li>• "failed" - The upgrade did not complete</li> </ul>

Name	Type	Required	Description
stateDesired	string	True	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "id": "aa9a8e88-c012-55b1-b514-7cd94dc79008",
  "componentName": "trident",
  "componentInstance": "https://<dns_name>/accounts/0b311ae7-d89a-4a11-
a52c-1349ca090415/topology/v1/clouds/fdda3ff3-a46a-43a4-902e-
444fde2baeba/storageBackends/72d19c3c-eb43-4bec-b23e-a228c900aded",
  "componentID": "72d19c3c-eb43-4bec-b23e-a228c900aded",
  "upgradeVersion": "21.07.1",
  "currentVersion": "21.04.1",
  "dependencies": [],
  "state": "scheduled",
  "stateDesired": "scheduled",
  "stateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Modify an upgrade

PUT /accounts/{account\_id}/core/v1/upgrades/{upgrade\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Upgrades are scheduled or run based on desired state.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
upgrade_id	string	path	True	ID of the upgrade collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Upgrades are scheduled or run based on desired state.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-upgrade"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
componentName	string	False	JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	False	JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	False	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
upgradeVersion	string	False	JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
currentVersion	string	False	<p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
dependencies	array[string]	False	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "unavailable" - The upgrade is not available at this time</li><li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li><li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li><li>• "running" - The upgrade is in progress</li><li>• "complete" - The upgrade has completed</li><li>• "failed" - The upgrade did not complete</li></ul>

Name	Type	Required	Description
stateDesired	string	False	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "stateDesired": "running"
}
```

### Response

Status: 204, Indicates if the upgrade resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## User

### User overview

The User API represents users who are able to interact with the system.

### Create a new user for a group

POST /accounts/{account\_id}/core/v1/groups/{group\_id}/users

Indicates desired values for the User API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
group_id	string	path	True	ID of the containing group resource

#### Request Body

Indicates desired values for the User API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-user"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
authID	string	False	JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	<a href="#">postalAddress</a>	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent              For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
}
```

### Response

Status: 201, Returns the newly created user resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "pending",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>",
  "sendWelcomeEmail": "true",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the users for a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}/users

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>• example: id,email</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">user_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-users",
  "version": "1.2",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "<a href='mailto:ssmith@example.com'>:ssmith@example.com</a>"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "<a href='mailto:wjohns@example.com'>wjohms@example.com</a>"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### user\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent. For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a user for a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}

Returns the stored User API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the user collection to list

### Response

Status: 200, Returns the stored User API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "active",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "NetApp, Inc.",
  "email": "<a href='mailto:jd@exampl.com'>jd@exampl.com</a>",
  "phone": "408-555-2222",
  "postalAddress": {
    "addressCountry": "US",
    "addressLocality": "Sunnyvale",
    "addressRegion": "California",
    "postalCode": "94089",
    "streetAddress1": "495 East Java Drive"
  },
  "sendWelcomeEmail": "true",
  "enableTimestamp": "2020-08-05T14:24:54.128427Z",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a user for a group

PUT /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the user collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-user"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	False	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	False	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Dale",
  "email": "<a href='mailto:jdale@example.com'>jdale@example.com</a>"
}
```

### Response

Status: 204, Indicates if the user resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a user for a group

DELETE /accounts/{account\_id}/core/v1/groups/{group\_id}/users/{user\_id}

Removes the specified User API resource.

### Side Effects

- The following resources associated with the user are deleted: notificationMarks, tokens, and all roleBindings referring to the user.
- For a user with "authProvider" as "local", the linked credential with "keyType" as "passwordHash" will also be deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
group_id	string	path	True	ID of the containing group resource
user_id	string	path	True	ID of the user collection to list



## Response

Status: 204, Indicates if the user resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### Create a new user

POST /accounts/{account\_id}/core/v1/users

Indicates desired values for the User API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

## Request Body

Indicates desired values for the User API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-user"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
authID	string	False	JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	<a href="#">postalAddress</a>	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
}
```

### Response

Status: 201, Returns the newly created user resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "pending",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoo@example.com'>jdoo@example.com</a>",
  "sendWelcomeEmail": "true",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	



Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all users

GET /accounts/{account\_id}/core/v1/users

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>• example: id,email</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">user_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-users",
  "version": "1.2",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "<a href='mailto:ssmith@example.com'>:ssmith@example.com</a>"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "<a href='mailto:wjohns@example.com'>wjohns@example.com</a>"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### user\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-user"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent. For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}

Returns the stored User API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the user collection to list

### Response

Status: 200, Returns the stored User API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "active",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "NetApp, Inc.",
  "email": "<a href='mailto:jd@exampl.com'>jd@exampl.com</a>",
  "phone": "408-555-2222",
  "postalAddress": {
    "addressCountry": "US",
    "addressLocality": "Sunnyvale",
    "addressRegion": "California",
    "postalCode": "94089",
    "streetAddress1": "495 East Java Drive"
  },
  "sendWelcomeEmail": "true",
  "enableTimestamp": "2020-08-05T14:24:54.128427Z",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a user

PUT /accounts/{account\_id}/core/v1/users/{user\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the user collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>

Name	Type	Required	Description
id	string	False	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	False	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	False	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	False	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Dale",
  "email": "<a href='mailto:jdale@example.com'>jdale@example.com</a>"
}
```

### Response

Status: 204, Indicates if the user resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a user

DELETE /accounts/{account\_id}/core/v1/users/{user\_id}

Removes the specified User API resource.

### Side Effects

- The following resources associated with the user are deleted: notificationMarks, tokens, and all roleBindings referring to the user.
- For a user with "authProvider" as "local", the linked credential with "keyType" as "passwordHash" will also be deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the user collection to list

### Response

Status: 204, Indicates if the user resource was deleted.



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Volume

### Volume overview

The Volume API provides visibility into Kubernetes volumes associated with applications.

### List the volumes for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

volume\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```



## Definitions

### See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the volumes for a storage backend

GET

/accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
storageBackend_id	string	path	True	ID of the containing storageBackend resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

volume\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.



Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for a storage backend

GET

/accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
storageBackend_id	string	path	True	ID of the containing storageBackend resource
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-volume"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1" • "1.2"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>



Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List all volumes

GET /accounts/{account\_id}/topology/v1/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response



Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

volume\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume

GET /accounts/{account\_id}/topology/v1/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 255</li> </ul>

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>

Name	Type	Required	Description
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 1000000000,
  "usedPercentage": 10,
  "total": 1000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the volumes for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters



### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

volume\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetail]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	



Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Ressources supplémentaires

Vous trouverez des ressources d'aide supplémentaires sur les services cloud et le support NetApp, ainsi que des informations générales sur REST et cloud.

## Astra

- ["Documentation d'Astra Control Center 23.10"](#)

Documentation relative à la version actuelle du logiciel Astra Control Center déployé dans les locaux du client.

- ["Documentation relative au service après-vente Astra Control"](#)

Documentation relative à la version actuelle du logiciel Astra Control Service disponible dans le Cloud public.

- ["Documentation Astra Trident"](#)

Documentation relative à la version actuelle du logiciel Astra Trident, un orchestrateur de stockage open source géré par NetApp.

- ["Documentation de la gamme Astra"](#)

Un emplacement central permettant d'accéder à toute la documentation d'Astra tant pour les déploiements sur site que dans le cloud public.

- ["Déroulez"](#)

Support communautaire pour Astra Control et d'autres produits NetApp.

## Ressources cloud NetApp

- ["NetApp BlueXP"](#)

Site central des solutions clouds NetApp.

- ["Console NetApp Cloud Central"](#)

Console de services NetApp Cloud Central avec connexion.

- ["Support NetApp"](#)

Accédez aux outils de dépannage, à la documentation et à l'assistance technique.

## Concepts DE REPOS et cloud

- Doctorat ["thèse"](#) Par Roy Fielding

Cette publication a introduit et établi le modèle de développement des applications REST.

- "Auth0"

Il s'agit du service de plateforme d'authentification et d'autorisation utilisé par le service Astra pour l'accès au Web.

- "Éditeur RFC"

Source faisant autorité pour les normes Web et Internet, maintenue comme un ensemble de documents RFC numérotés de façon unique.

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<https://www.netapp.com/pdf.html?item=/media/11887-patentspage.pdf>

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## Licence API Astra Control

<https://docs.netapp.com/us-en/astra-automation/media/astra-api-license.pdf>

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