Astra Control Automation 24.02ドキュメント

Astra Automation

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Astra Control Automation 24.02ドキュメント

リリースノート

このリリースについて

このサイトのドキュメントでは、2つのAstra Control導入モデルに含まれるAstra Control REST APIと関連する自動化テクノロジについて説明しています。

リリースのバージョン管理

Astra Controlのすべてのリリースには、* YY.MM *形式のバージョン番号が割り当てられます。原則として、Astraのバージョンは、利用可能になった年（*YY*）と月（*MM*）に基づいて識別されます。たとえば、2023年7月にAstra Control Center 23.07がリリースされました。

ケイデンスを解放します

通常、Astra Control ServiceとAstra Control Centerの更新は同時に実行されます。しかし、これまでAstra Control Serviceではリリースサイクルが短縮されてきました。そのため、Astra Control Centerのメジャーリリース間に1つ以上の差分更新が行われました。

Astra Controlの導入

このサイトのドキュメント環境 次のAstra Controlリリース：

- Astra Controlサービス24.02
- Astra Control Center 24.02

このサイトでは両方の導入モデルのREST APIについて説明しているため、一方の導入モデルでしか使用できない機能もあります。この2つの大きな違いは、必要に応じて記録されます。

詳細情報

最新リリースおよび以前のAstra Controlリリースの詳細については、次のページとサイトを参照してください。

- "Astra Control REST API の新機能"
- "REST のリソースとエンドポイント"
- "Astra Control Center 24.02ドキュメント"
- "Astra Control Service 24.02ドキュメント"
- "旧バージョンの Astra Automation ドキュメント"

ドキュメントの改善にご協力ください

Twitter *@NetAppDoc *でネットアップのドキュメントに関する通知をお送りしています。また、を作成してフィードバックを送信することもできます "GitHub の貢献者" または、_doccomments@netapp.com_に電子メールを送信します。

Astra Control REST API の新機能

ネットアップでは、Astra Control REST APIを定期的に更新して、新機能、拡張機能、バグ修正を提供しています。

2024年3月14日（24.02）

Astra Control ServiceとAstra Control Centerは、どちらも24.02リリースで更新されています。

マイナーなバグ修正

24.02リリースは、主にいくつかのマイナーなバグの修正に重点を置いています。Astra Control APIに新しいリソースタイプは追加されていません。

技術プレビュー：**Kubernetes**の宣言ワークフロー

Astra Control Center 24.02にはKubernetesの宣言機能が含まれています。この機能を使用すると、ネイティブのKubernetesカスタムリソース（CR）からデータ管理を実行できます。この機能はまだ一般提供されていません。を参照してください "Astra Control Center ：新機能" を参照してください。

2023年11月7日（23.10）

Astra Control ServiceとAstra Control Centerは、どちらも23.10リリースで更新されています。REST APIでは、新機能をサポートするためにいくつかの機能拡張が行われています。

拡張されたストレージバックエンド

バックアップ処理とリストア処理を有効にすることができます。 `ontap-nas-economy` ストレージバックエンド：

変更不可のバックアップ

Astra Controlで、マルウェアやその他の脅威に対する追加のセキュリティレイヤとして、変更不可能な読み取り専用バックアップがサポートされるようになりました。

実行フックの制御の強化

このリリース以降、セキュリティを強化するために実行フック機能を有効または無効にすることができます（デフォルトでは無効になっています）。Astra Controlで使用する実行フックをまだ作成していない場合は、実行フック機能を有効にしてフックの作成を開始する必要があります。このリリースより前に実行フックを作成した場合、実行フック機能は有効なままになり、通常どおりフックを使用できます。

2023年7月27日（23.07）

このリリースでは、REST APIに対する一部の機能拡張が含まれています。Astra Control ServiceとAstra Control Centerは、どちらも23.07リリースで更新されています。

クローニング処理とレプリケーション処理

クローン処理では、ライブクローンのみがサポートされるようになりました（管理対象アプリケーションの現在の状態）。Snapshotまたはバックアップからクローニングするには、リストア処理を使用する必要があります。また、同じKubernetesクラスタ内のONTAPストレージバックエンド間でアプリケーションをレプリケートできるようになりました。

拡張されたストレージバックエンド

Astra Control Centerでは、次のような追加のストレージバックエンドを使用できるようになりました。

- NetApp MetroCluster（ストレッチ構成）
- "ロングホーン"" 1.5.0以降

新しい実行フックタイプ

Astra Control Centerでは、新しい実行フックタイプ* post-failover *を使用できます。

2023年6月27日（23.06）

このリリースでは、REST APIに対する一部の更新が含まれています。

Azure Marketplace で入手できます

Azure Marketplaceのサブスクリプションは、分単位ではなく時間単位で課金されるようになりました。も参照してください "請求を設定します"。

RESTIC最適化

フラグを使用して、RESTICバックアップのパフォーマンス最適化を有効にすることができます `useResticParallel` 新しいで `astra.datamover` 設定APIリソース。に設定すると `true`、の数 `backendConnections` これは、大容量ボリュームをAzureコンテナにバックアップする場合に使用される容量が増加します。1TB~4TBのボリュームでは、128個の接続が使用されます。4TBを超えるボリュームでは、512のバックエンド接続が使用されます。

2023年5月30日（23.05）

このリリースでは、REST APIに対する一部の更新が含まれています。

選択的なリストア処理

デスティネーションストレージクラスは、リストア処理またはクローン処理の実行時に選択できます。

自己管理型クラスタ向けに動的**ANF**プールを有効化

ANFストレージバックエンドを備えたプライベートオンプレミスクラスタで管理対象アプリケーションをバックアップする場合、サブスクリプションIDを指定して動的なANFプール機能を有効にできるようになりました。を参照してください "動的なANFプールを有効化" を参照してください。

2023年4月25日（23.04）

このリリースでは、REST APIに対する一部の更新が含まれています。

選択的なリストア処理

リストア処理中にアプリケーションリソースを選択的に含めるか除外するかを選択できます。これは、特定の名前空間、名前、ラベル、またはGroupVersionKind値に基づくフィルタルールを使用して行われます。

データ専用アプリケーションのサポート

アプリケーション管理のサポートは、データ専用アプリケーションに拡張されました。

2023年1月17日（23.01）

このリリースには、REST APIのマイナーアップデートが含まれています。

強化された実行フック機能とフィルタ

実行フックを使用するときに、フックが一致するコンテナを制御するフィルタを追加できるようになりました。1つの実行フックに対して複数のフィルタを作成すると、それらは論理AND演算子と結合されます。実行フックごとに最大10個のアクティブフィルタを定義できます。

2022年11月22日（22.11）

このリリースでは、REST APIの拡張と更新に加え、ネームスペースとLDAPのサポートが強化されています。

Astra の新しいリソース

新しいリソースタイプとして、**apiResource**、**LDAPGroup**、**ldapuser**、*task*の4つが追加されました。また、既存のリソースとエンドポイントがいくつか拡張されています。

長時間のタスクの監視サポート

新しいタスクエンドポイントは、管理タスクリソースへのアクセスを提供し、内部の長時間実行タスクのステータスを表示するために使用できます。

ネームスペース使用シナリオの強化

複数のネームスペースにまたがるアプリケーションと、ネームスペース修飾リソースに関連付けられたクラスタリソースのサポートが追加されました。

クラウドサブスクリプションの拡張

各クラウドプロバイダに対して複数のアカウントサブスクリプションを追加できるようになりました。

追加のワークフロー

Astra Control REST APIを説明するワークフローが追加されました。を参照してください "インフラワークフロー" および "管理ワークフロー" を参照してください。

関連情報

- "Astra Control Center ：新機能"

2022年8月10日（22.08）

このリリースでは、 REST API の拡張と更新に加え、セキュリティと管理に関する高度な機能が実装されています。

Astra の新しいリソース

3つの新しいリソースタイプ、* Certificate 、 Group 、 AppMirror *が追加されました。また、いくつかの既存リソースのバージョンも更新されています。

LDAP 認証

必要に応じて、Astra Control Centerを構成してLDAPサーバーと統合し、選択したAstraユーザーを認証することができます。を参照してください "LDAP の設定" を参照してください。

拡張実行フック

実行フックのサポートは、Astra Control 21.12リリースで追加されました。既存のスナップショット前およびスナップショット後の実行フックに加えて、22.08リリースで次の種類の実行フックを構成できるようになりました。

- バックアップ前
- バックアップ後
- リストア後のPOSTコマンドです

Astra Controlでは、複数の実行フックに同じスクリプトを使用できるようになりました。

SnapMirrorを使用したアプリケーションのレプリケーション

NetApp SnapMirrorテクノロジを使用して、クラスタ間でデータやアプリケーションの変更をレプリケートできるようになりました。この拡張機能を使用すると、ビジネス継続性およびリカバリ機能を向上させることができます。

関連情報

- "Astra Control Center 22.08：新機能"

2022 年 4 月 26 日（ 2004 年 4 月 22 日）

このリリースでは、 REST API の拡張と更新に加え、セキュリティと管理に関する高度な機能が実装されています。

Astra の新しいリソース

2 つの新しいリソースタイプが追加されました。 * パッケージ * と * アップグレード * です。また、いくつかの既存リソースのバージョンもアップグレードされています。

ネームスペース単位で強化された **RBAC**

ロールを関連付けられたユーザにバインドする場合は、ユーザがアクセスできるネームスペースを制限できます。詳しくは、 * Role Binding API * のリファレンスおよびを参照してください "RBAC セキュリティ" を参照してください。

バケットの取り外し

不要になったバケットや、正常に機能していないバケットは削除できます。

Cloud Volumes ONTAP のサポート

Cloud Volumes ONTAP がストレージバックエンドとしてサポートされるようになりました。

その他の機能強化

2 つの Astra Control 製品の実装には、次のような機能強化が追加されています。

- Astra Control Center への一般的な入力
- AKS のプライベートクラスタ
- Kubernetes 1.22 のサポート
- VMware Tanzu ポートフォリオのサポート

Astra Control Center および Astra Control Service のドキュメントサイトの「新機能 * 」ページを参照してください。

関連情報

- "Astra Control Center 22.04：新機能"

2021 年 12 月 14 日（ 21.12 ）

このリリースでは、 REST API の拡張に加え、今後のリリース更新で Astra Control の進化をサポートするためのドキュメント構造の変更が追加されています。

Astra Control の各リリースに対応した、別個の Astra Automation のドキュメント

Astra Control の各リリースには、特定のリリースの機能に合わせて拡張およびカスタマイズされた独自の REST API が含まれています。Astra Control REST API の各リリースのドキュメントが、関連する GitHub コンテンツリポジトリに加え、独自の専用 Web サイトで入手できるようになりました。メインのドキュメントサイト "Astra Control Automation の略" 最新リリースのドキュメントは必ず含まれています。を参照してください "旧バージョンの Astra Control Automation のドキュメント" 以前のリリースについては、を参照してください。

REST リソースタイプの拡張

REST リソースタイプの数は、実行フックとストレージバックエンドを重視して拡張が続けられています。新しいリソースには、アカウント、実行フック、フックソース、実行フックオーバーライド、クラスタノード、管理対象のストレージバックエンド、ネームスペース、ストレージデバイス、およびストレージノード。を参照してください "リソース" を参照してください。

NetApp Astra Control Python SDK

NetApp Astra Control Python SDK は、 Astra Control 環境用の自動化コードを簡単に開発できるようにするオープンソースパッケージです。中核となるのは Astra SDK で、 REST API 呼び出しの複雑さを抽象化する一連のクラスが含まれています。また、 Python クラスをラッピングして抽象化することで、特定の管理タスクを実行するツールキットスクリプトもあります。を参照してください "NetApp Astra Control Python SDK" を参照してください。

関連情報

- "Astra Control Center 21.12：新機能"

2021 年 8 月 5 日（ 21.08 ）

このリリースには、新しい Astra 導入モデルの導入と REST API のメジャー拡張が含まれています。

Astra Control Center 導入モデル

このリリースには、パブリッククラウドサービスとして提供される既存の Astra Control Service に加えて、 Astra Control Center オンプレミス導入モデルも含まれています。Astra Control Center をサイトにインストールして、ローカルの Kubernetes 環境を管理できます。2 つの Astra Control 導入モデルは同じ REST API を共有しますが、ドキュメントで必要とされるわずかな違いがあります。

REST リソースタイプの拡張

Astra Control REST API からアクセス可能なリソースの数が大幅に増え、多くの新しいリソースがオンプレミスの Astra Control Center の基盤となりました。新しいリソースには、 ASUP 、使用権、機能、ライセンス、設定、 サブスクリプション、バケット、クラウド、クラスタ、管理対象クラスタ、 ストレージバックエンド、およびストレージクラス。を参照してください "リソース" を参照してください。

Astra 環境をサポートする追加のエンドポイント

REST リソースの拡張に加えて、 Astra Control 環境をサポートするための新しい API エンドポイントがいくつか追加されました。

OpenAPI のサポート

OpenAPI エンドポイントは、現在の OpenAPI JSON ドキュメントおよびその他の関連リソースへのアクセスを提供します。

OpenMetrics のサポート

OpenMetrics エンドポイントは、 OpenMetrics リソースを介してアカウントメトリックへのアクセスを提供します。

関連情報

- "Astra Control Center 21.08：新機能"

2021 年 4 月 15 日（ 21.04 ）

このリリースには、次の新機能と機能拡張が含まれています。

REST API の導入

Astra Control REST API は、 Astra Control Service と組み合わせて使用できます。REST テクノロジと現在のベストプラクティスに基づいて作成されています。この API は、 Astra 環境を自動化するための基盤となり、次の機能とメリットが含まれています。

リソース

REST リソースには 14 種類あります。

API トークンアクセス

REST API には、 Astra Web ユーザインターフェイスで生成できる API アクセストークンを使用してアクセスできます。API トークンを使用して、 API に安全にアクセスできます。

収集のサポート

リソースコレクションへのアクセスに使用できる豊富なクエリパラメータセットがあります。フィルタ、ソート、ページ付けなどの処理がサポートされます。

既知の問題

Astra Controlの最新リリースと関連するREST APIの既知の問題をすべて確認しておく必要があります。ここでは、この製品の正常な使用を妨げる可能性のある既知の問題について記載します。導入モデルに応じて、次のいずれかのページを参照してください。

- "Astra Control Serviceの既知の問題"
- "Astra Control Centerの既知の問題"

旧バージョンの **Astra Control Automation** のドキュメント

以前の Astra Control リリースの自動化に関するドキュメントには、次のリンクからアクセスできます。

- "Astra Control Automation 23.10ドキュメント"
- "Astra Control Automation 23.07ドキュメント"
- "Astra Control Automation 23.04ドキュメント"
- "Astra Control Automation 22.11ドキュメント"
- "Astra Control Automation 22.08ドキュメント"
- "Astra Control Automation 22.04ドキュメント"
- "Astra Control Automation 21.12 ドキュメント"
- "Astra Control Automation 21.08 ドキュメント"

機能とメリットの概要

Astra Control Center と Astra Control Service は、 Curl などのプログラミング言語やユーティリティを使用して直接アクセスできる共通の REST API を提供します。API の主な特長とメリットを以下に示します。

REST API にアクセスするには、最初に Astra Web ユーザインターフェイスにサインインして、 API トークンを生成する必要があります。トークンは各 API 要求に含める必要があります。

REST テクノロジを基盤として構築

REST テクノロジを使用して Astra Control API が作成され、最新のベストプラクティスが適用されている。中核となるテクノロジは、 HTTP 、 JSON 、 RBAC です。

2 つの **Astra Control** 導入モデルをサポート

Astra Control Service はパブリッククラウド環境で使用され、 Astra Control Center はオンプレミス環境に使用されます。これらの両方の導入モデルをサポートする REST API が 1 つあります。

REST エンドポイントリソースとオブジェクトモデルの間のマッピングをクリアします

リソースへのアクセスに使用される外部の REST エンドポイントは、 Astra サービスによって内部的に管理されている整合性のあるオブジェクトモデルにマッピングされます。オブジェクトモデルは、エンティティと関係（ ER ）のモデリングを使用して設計され、 API のアクションと応答を明確に定義できます。

豊富なクエリパラメータ

REST API には、リソースコレクションへのアクセスに使用できる豊富なクエリパラメータが用意されています。フィルタ、ソート、ページ付けなどの処理がサポートされます。

Astra Control Web UI とのアライメント

設計された Astra Web ユーザインターフェイスは REST API に対応しているため、 2 つのアクセスパスとユーザエクスペリエンスの間で一貫性があります。

堅牢なデバッグおよび問題の特定データ

Astra Control REST API は、システムイベントやユーザ通知など、堅牢なデバッグおよび問題の特定機能を提供します。

ワークフロープロセス

自動化コードの開発を支援する一連のワークフローが用意されています。ワークフローは、インフラと管理の 2 つの主要なカテゴリに分類されています。

高度なオートメーション技術の基盤

REST API に直接アクセスするだけでなく、 REST API をベースとするその他の自動化テクノロジも使用できます。

Astra ファミリーのドキュメントの一部

Astra Control Automation のドキュメントは、 Astra ファミリーの大きなドキュメントの一部です。を参照してください "Astra のドキュメント" を参照してください。

はじめに

作業を開始する前に

次の手順を確認して、 Astra Control REST API の使用を開始するための準備を簡単に行うことができます。

Astra アカウントのクレデンシャルが必要

Astra のクレデンシャルが必要になるのは、 Astra Web ユーザインターフェイスにサインインして、 API トークンを生成する場合です。Astra Control Center を使用すると、これらの資格情報をローカルで管理できます。Astra Control Service を使用すると、アカウントの資格情報に * Auth0 * サービスからアクセスできます。

Kubernetes の基本概念を理解する

Kubernetes のいくつかの基本概念を理解しておく必要があります。を参照してください "Kubernetes の基本概念" を参照してください。

REST の概念と実装を確認

必ず確認してください "コア REST の実装" REST の概念と、 Astra Control REST API の設計に関する詳細については、を参照してください。

詳細はこちらをご覧ください

に示す追加情報のリソースを確認しておく必要があります "その他のリソース"。

API トークンを取得します

Astra Control REST API を使用するには、 Astra API トークンを取得する必要があります。

概要

API トークンは、 Astra の呼び出し元を識別し、すべての REST API 呼び出しに含める必要があります。

- Astra Webユーザインターフェイスを使用してAPIトークンを生成する必要があります。
- トークンを生成するための手順は、どちらのAstra導入モデルでも同じです。Astraへのアクセスに使用されるURLのみが異なります。
- トークンと関連付けられているアクセス許可とともに伝送されるユーザーIDは、トークンを作成したユーザーによって決定されます。
- トークンは 'Authorization’HTTP 要求ヘッダーに含める必要があります
- トークンは作成後に期限切れになることはありません。
- トークンは、 Astra の Web ユーザインターフェイスから取り消すことができます。

関連情報

- "API トークンを取り消します"

Astra API トークンを作成

Astra API トークンを作成する手順を次に示します。

作業を開始する前に

Astra アカウントのクレデンシャルが必要です。

このタスクについて

このタスクは、 Astra Web インターフェイスで API トークンを生成します。また、 API 呼び出しの際にも必要なアカウント ID を取得する必要があります。

手順

1. 次のアカウントクレデンシャルを使用してAstraにサインインします。
   - Astra Controlサービス： "https://astra.netapp.io"
   - Astra Control Center：インストール時に設定したローカル環境のURLを使用します
2. ページの右上にある図のアイコンをクリックし、 * API access * を選択します。
3. ページで*をクリックし、ポップアップウィンドウで[APIトークンの生成]*をクリックします。
4. アイコンをクリックしてトークン文字列をクリップボードにコピーし、エディタに保存します。
5. 同じページにあるアカウント ID をコピーして保存します。

完了後

curlまたはプログラミング言語を使用してAstra Control REST APIにアクセスする場合は、API BearerトークンをHTTPに含める必要があります `Authorization` 要求ヘッダー。

最初のAPI呼び出し

ワークステーションのCLIで簡単なcurlコマンドを問題 して、Astra Control REST APIの使用を開始し、利用可能かどうかを確認することができます。

作業を開始する前に

Curl ユーティリティがローカルワークステーションで使用可能である必要があります。また、 API トークンと関連付けられているアカウント識別子も必要です。を参照してください "API トークンを取得します" を参照してください。

カールの例

次の Curl コマンドは、 Astra ユーザのリストを取得します。図に示すように、適切な <account_ID> と <api_ctoken> を指定します。

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

JSON 出力例

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

Kubernetes の基本概念

Kubernetes の概念については、 Astra REST API の使用時にいくつか関連するものがあります。

オブジェクト

Kubernetes 環境で管理されるオブジェクトは、クラスタの構成を表す永続的なエンティティです。これらのオブジェクトのことから、クラスタワークロードを含むシステムの状態がわかります。

ネームスペース

ネームスペースは、単一のクラスタ内でリソースを分離する手法を提供します。この組織構造は、作業、ユーザ、およびリソースのタイプを分割する場合に便利です。namespace scope_を 持つオブジェクトはネームスペース内で一意である必要があり、 _cluster scope_を 持つオブジェクトはクラスタ全体で一意である必要があります。

ラベル

ラベルは Kubernetes オブジェクトに関連付けることができます。キーと値のペアを使用して属性を記述します。また、 Kubernetes の中核的な処理には含まれない、組織には役立つ任意の組織をクラスタに適用できます。

ワークフローを使用する準備をします

実際の環境で使用する前に、 Astra ワークフローの構成と形式を理解しておく必要があります。

はじめに

a_workflow_ は、特定の管理タスクまたは目標を達成するために必要な 1 つ以上のステップのシーケンスです。Astra Control ワークフローの各手順は、次のいずれかです。

- REST API 呼び出し（ cURL や JSON の例などの詳細を含む）
- 別の Astra ワークフローの呼び出し
- その他の関連タスク（必要な設計決定の実行など）

ワークフローには、各タスクを実行するために必要な主要な手順とパラメータが含まれています。自動化環境をカスタマイズするための出発点となります。

共通の入力パラメータ

以下に記載する入力パラメータは、 REST API 呼び出しを示すために使用するすべての cURL サンプルに共通しています。

> これらの入力パラメータは汎用的に必要なため、個々のワークフローでは詳しく説明していません。特定のカールの例に追加の入力パラメータが使用される場合は、「 * その他の入力パラメータ * 」セクションで説明します。

パスパラメータ

すべての REST API 呼び出しで使用されるエンドポイントパスには、次のパラメータが含まれています。も参照してください "URL 形式" を参照してください。

アカウント **ID**

これは、 API 処理を実行する Astra アカウントを識別する UUIDv4 値です。を参照してください "API トークンを取得します" アカウント ID の検索の詳細については、を参照してください。

要求ヘッダー

REST API 呼び出しに応じて、いくつかの要求ヘッダーを含める必要があります。

承認

ワークフロー内のすべての API 呼び出しで、ユーザを識別するための API トークンが必要です。トークンは 'Authorization' 要求ヘッダーに含める必要がありますを参照してください "API トークンを取得します" API トークンの生成の詳細については、を参照してください。

コンテンツタイプ

要求の本文に JSON が含まれている HTTP POST 要求と PUT 要求では、 Astra リソースに基づいてメディアタイプを宣言する必要があります。たとえば ' 管理対象アプリケーションのスナップショットを作成するときに 'Content-Type:application/stra-pappSnap+JSOb' というヘッダーを含めることができます

同意します

アストラリソースに基づいて、応答で想定されるコンテンツの特定のメディアタイプを宣言できます。たとえば ' 管理対象アプリケーションのバックアップを一覧表示するときに 'Accept:application/Astra-pappBackup+JSOb' というヘッダーを含めることができますただし、簡単にするために、ワークフロー内のカールサンプルはすべてのメディアタイプに対応しています。

トークンと識別子の表示

cURL の例で使用される API トークンおよびその他の ID 値は不透明で、認識不能な意味はありません。サンプルの読みやすさを向上させるために、実際のトークンと ID 値は使用されません。代わりに、小さい予約済みキーワードが使用されます。これには次のような利点があります。

- cURL と JSON のサンプルは、より明確でわかりやすくなっています。
- すべてのキーワードは角かっこと大文字で同じ形式を使用するため、挿入または抽出する場所とコンテンツをすばやく識別できます。
- 元のパラメータをコピーして実際の配置で使用することはできないため、値は失われません。

次に、 curl の例で使用される一般的な予約済みキーワードの一部を示します。このリストはすべてを網羅しているわけではなく、必要に応じてその他のキーワードが使用されていその意味はコンテキストに基づいて明確になる必要があります。

キーワード	を入力します	説明
<account_ID>	パス	API 処理を実行するアカウントを識別する UUIDv4 値。
<api_ctoken> のように指定します	ヘッダー	発信者を識別および認可するベアラトークン。
<APP_ID>	パス	API呼び出しのアプリケーションを識別するUUIDv4値。

ワークフローのカテゴリ

導入モデルに応じて、幅広い種類の Astra ワークフローが用意されています。Astra Control Center を使用している場合は、インフラワークフローから始めて、管理ワークフローに進みます。Astra Control Service を使用すると、通常は管理ワークフローに直接移動できます。

ワークフロー内の cURL のサンプルでは、 Astra Control Service の URL を使用します。オンプレミスの Astra Control Center を使用している場合は、環境に応じて URL を変更する必要があります。

インフラワークフロー

これらのワークフローは、クレデンシャル、バケット、ストレージバックエンドなどの Astra インフラを処理します。Astra Control Center で必要ですが、ほとんどの場合は Astra Control Service でも使用できます。このワークフローでは、マネージドクラスタの構築と保守に必要なタスクを中心に説明します。

管理ワークフロー

これらのワークフローは、管理対象クラスタを作成したあとに使用できます。このワークフローでは、アプリケーションのバックアップ、リストア、クローニングなど、アプリケーションの保護とサポートの処理に重点を置いています。

オンラインの**API**リファレンス

Astra APIのリファレンスドキュメントにアクセス

HTTPメソッド、入力パラメータ、応答など、Astra Control REST API呼び出しの詳細にアクセスできます。このリファレンスは、 REST API を使用して自動化アプリケーションを開発する場合に役立ちます。

作業を開始する前に

導入時にAstra Webユーザインターフェイスにサインインするには、クレデンシャルが必要です。リファレンスドキュメントにアクセスするための手順は、Astra ControlサービスとAstra Control Centerで同じです。URLだけが異なります。リファレンスドキュメントにアクセスして表示するためにAPIトークンは必要ありません。

手順

1. 次のアカウントクレデンシャルを使用してAstraにサインインします。
   - Astra Controlサービス： "https://astra.netapp.io"
   - Astra Control Center：インストール時に設定したローカル環境のURLを使用します
2. ページの右上にある図のアイコンをクリックし、 * API access * を選択します。
3. ページの上部で、 * API ドキュメント * の下に表示される URL をクリックします。

結果

Swaggerページが新しいウィンドウまたはタブで表示されます。URLには、サインインしたアカウントのアカウントIDが含まれていることに注意してください。

次の手順

必要に応じて、SwaggerページからAPI呼び出しを実行できます。を参照してください "問題Astra REST API コール" を参照してください。

問題Astra REST APIコール

Astra Control REST API呼び出しは、APIリファレンスドキュメントページから問題できます。

作業を開始する前に

Astraにサインインし、APIリファレンスページにアクセスする必要があります。を参照してください "Astra APIのリファレンスドキュメントにアクセス" を参照してください。REST APIを使用するにはトークンも必要です。を参照してください "API トークンを取得します" APIトークンの生成の詳細については、を参照してください。

手順

1. APIリファレンスページの上部にある*[Authorize]*をクリックします。
2. APIトークンの値をコピーしてポップアップウィンドウのフィールドに貼り付け、**[Authorize]***をクリックし、[Close]*をクリックします。
3. ページを下にスクロールし、目的のAPI呼び出しを開きます。
4. 右クリック*試してみてください*。
5. 同じAPI呼び出し内で下にスクロールします。必要なパラメータ値を指定し、*[Execute]*をクリックして

コールを問題します。

結果

API呼び出しが実行され、HTTPステータスコードが表示されます。

Astra RESTの実装

コア設計

REST Web サービス

Representational State Transfer （ REST ）は、分散 Web アプリケーションの作成に使用される形式です。Web サービス API の設計に適用されることで、サーバベースのリソースを公開し、その状態を管理するための一連の主流テクノロジとベストプラクティスが確立されます。REST はアプリケーション開発のための一貫した基盤を提供しますが、各 API の詳細は設計内容に応じて異なる場合があります。ライブ環境で使用する前に、 Astra Control REST API の特性を理解しておく必要があります。

リソースと状態の表示

リソースは、 Web ベースシステムの基本コンポーネントです。REST Web サービスアプリケーションを作成する場合、設計の早い段階で次の作業を行います。

- システムまたはサーバベースのリソースの識別

  すべてのシステムは、リソースを使用および管理します。リソースには、ファイル、ビジネストランザクション、プロセス、管理エンティティなどがあります。REST Web サービスに基づいてアプリケーションを設計する際に行う最初の作業の 1 つは、リソースを識別することです。

- リソースの状態および関連する状態操作の定義

  リソースの状態の数は有限で、リソースは必ずそのいずれかの状態にあります。状態、および状態の変化に影響する関連操作を明確に定義する必要があります。

URI エンドポイント

すべての REST リソースは、明確に定義されたアドレス指定方式を使用して定義および使用可能にする必要があります。リソースが置かれているエンドポイントは、 Uniform Resource Identifier （ URI ）で識別されます。URI は、ネットワーク内の各リソースに一意の名前を作成するための一般的なフレームワークです。Uniform Resource Locator （ URL ）は、リソースを識別してアクセスするために Web サービスで使用される URI の一種です。リソースは通常、ファイルディレクトリに似た階層構造で公開されます。

HTTP メッセージ

Hypertext Transfer Protocol （ HTTP ）は、 Web サービスのクライアントとサーバがリソースに関する要求と応答のメッセージを交換する際に使用するプロトコルです。Web サービスアプリケーションの設計の一環として、 HTTP メソッドはリソースおよび対応する状態管理アクションにマッピングされます。HTTP はステートレスです。したがって、関連する一連の要求と応答を 1 つのトランザクションの一部として関連付けるには、要求と応答のデータフローで伝送される HTTP ヘッダーに追加情報を含める必要があります。

JSON 形式

Web サービスのクライアントとサーバの間で情報を構造化して転送する方法は複数ありますが、最も広く使用されているのは JavaScript Object Notation （ JSON ）です。JSON は、単純なデータ構造をプレーンテキ

ストで表すための業界標準であり、リソースについての状態情報の転送に使用されます。Astra Control REST API では、 JSON を使用して、各 HTTP 要求と応答の本文で伝送されるデータをフォーマットします。

リソースとコレクション

Astra Control REST API を使用すると、リソースインスタンスとリソースインスタンスのコレクションにアクセスできます。

> 概念的には REST * リソース * は、オブジェクト指向プログラミング（ OOP ）言語およびシステムで定義される * オブジェクト * に似ています。これらの用語が同じ意味で使用されることもあります。ただし一般には、外部 REST API のコンテキストで使用する場合は「リソース」が推奨され、サーバに格納される対応するステートフルインスタンスデータには「オブジェクト」が使用されます。

Astra リソースの属性

Astra Control REST API は、 RESTful 設計の原則に準拠しています。各アストラリソースインスタンスは、明確に定義されたリソースタイプに基づいて作成されます。同じタイプのリソースインスタンスのセットを * 集合 * と呼びます。API 呼び出しは、個々のリソースまたはリソースの集合に対して機能します。

リソースタイプ

Astra Control REST API に含まれるリソースタイプには、次の特徴があります。

- すべてのリソースタイプはスキーマを使用して定義されます（通常は JSON 形式）。
- すべてのリソーススキーマには、リソースタイプとバージョンが含まれています
- リソースタイプはグローバルに一意です

リソースインスタンス

Astra Control REST API から使用できるリソースインスタンスには、次のような特徴があります。

- リソースインスタンスは、単一のリソースタイプに基づいて作成されます
- リソースタイプは、 ［ メディアタイプ ］ の値を使用して示されます
- インスタンスは、アストラサービスによって管理されるステートフルデータで構成されます
- 各インスタンスには、一意で長く存続する URL を使用してアクセスできます
- リソースインスタンスが複数のリプレゼンテーションを持つことができる場合は、異なるメディアタイプを使用して必要なリプレゼンテーションを要求できます

リソースコレクション

Astra Control REST API で使用できるリソース収集には、次のような特徴があります。

- 単一のリソースタイプの一連のリソースインスタンスをコレクションと呼びます
- 一連のリソースには、一意で一時的な URL があります

インスタンス **ID**

すべてのリソースインスタンスには、作成時に識別子が割り当てられます。この識別子は 128 ビットの UUIDv4 値です。割り当てられた UUIDv4 の値は、グローバルに一意で変更できません。新しいインスタンス

を作成する API 呼び出しを発行すると、関連付けられた ID を持つ URL が HTTP 応答の「 Location 」ヘッダーで呼び出し元に返されます。リソースインスタンスを以降の呼び出しで参照する際には、この識別子を抽出して使用できます。

リソース識別子は、コレクションで使用される主キーです。

Astra のリソースに共通の構造

すべてのアストラ制御リソースは、共通の構造を使用して定義されます。

共通のデータ

すべてのアストラリソースには、次の表に示すキーと値が含まれています。

キーを押します	説明
を入力します	グローバルに一意なリソースタイプ。 * リソースタイプ * と呼ばれます。
バージョン	* リソースバージョン * と呼ばれるバージョン識別子。
ID	グローバル一意識別子。 * リソース識別子 * と呼ばれます。
メタデータ	ユーザラベルやシステムラベルなどのさまざまな情報を含む JSON オブジェクト。

メタデータオブジェクト

各アストラリソースに含まれるメタデータ JSON オブジェクトには、次の表に示すキーと値が含まれています。

キーを押します	説明
ラベル	リソースに関連付けられているクライアント指定のラベルの JSON 配列。
作成タイムスタンプ	リソースが作成されたときのタイムスタンプを含む JSON 文字列。
modificationTimestamp	リソースの最終変更日時を示す ISO-8601 形式のタイムスタンプを含む JSON 文字列。
作成者	リソースを作成したユーザ ID の UUIDv4 識別子を含む JSON 文字列。リソースが内部システムコンポーネントによって作成され、作成するエンティティに関連付けられている UUID がない場合は、「 * null * UUID 」が使用されます。

リソースの状態

選択されたリソースは ' ライフサイクルの移行とアクセス制御のオーケストレーションに使用される価値を示します

HTTP の詳細

Astra Control REST APIは、HTTPおよび関連パラメータを使用して、リソースのインスタンスおよびコレクションに対して動作します。HTTP 実装の詳細を以下に示します。

API トランザクションと CRUD モデル

Astra Control REST API は、明確に定義された操作と状態の移行を伴うトランザクションモデルを実装します。

要求と応答の API トランザクション

すべての REST API 呼び出しは、 Astra サービスへの HTTP 要求として実行されます。要求ごとに、関連付けられた応答がクライアントに生成されます。この要求と応答のペアで API トランザクションを使用できます。

CRUD 操作モデルのサポート

Astra Control REST API で使用できる各リソースインスタンスとコレクションには、 *CRUD * モデルに基づいてアクセスします。4 つの操作があり、それぞれが単一の HTTP メソッドにマッピングされます。処理は次のとおりです。

- 作成
- 読み取り
- 更新
- 削除

一部の Astra リソースでは、これらの操作の一部のみがサポートされています。を確認しておきます "オンラインのAPIリファレンス" 特定の API 呼び出しに関する詳細については、を参照してください。

HTTP メソッド

次の表に、 API でサポートされる HTTP メソッドまたは動詞を示します。

メソッド	CRUD	説明
取得	読み取り	リソースインスタンスまたはコレクションのオブジェクトプロパティを取得します。これは、コレクションとともに使用される場合、 * list * 演算と見なされます。
投稿（ Post ）	作成	入力パラメータに基づいて新しいリソースインスタンスを作成します。長期 URL は 'Location' 応答ヘッダーで返されます
PUT	更新	指定した JSON 要求の本文でリソースインスタンス全体を更新します。ユーザが変更できないキー値は保持されます。
削除	削除	既存のリソースインスタンスを削除します。

要求と応答のヘッダー

次の表に、 Astra Control REST API で使用される HTTP ヘッダーを示します。

を参照してください "RFC 7232" および "RFC 7233" を参照してください。

ヘッダー	を入力します	使用上の注意
同意します	リクエスト	値が「 * / * 」または指定されていない場合、「 application/json 」は Content-Type 応答ヘッダーで返されます。値が Astra リソースのメディアタイプに設定されている場合、同じメディアタイプが Content-Type ヘッダーに返されます。
承認	リクエスト	ユーザーの API キーを使用した Bearer トークン。
コンテンツタイプ	応答	「 Accept 」要求ヘッダーに基づいて返されます。
ETag	応答	RFC 7232 で定義されたとおりに、成功したに含まれます。値は、 JSON リソース全体の MD5 値を 16 進数で表したものです。
if-match	リクエスト	セクション 3.1 「 RFC 7232 」で説明されているように、 * PUT * 要求をサポートする前提条件の要求ヘッダーが実装されています。
If-Modified-Since の略	リクエスト	セクション 3.4 「 RFC 7232 」に記載されている前提条件の要求ヘッダーと、 *PUT * 要求のサポート。
If - unmodified- since	リクエスト	セクション 3.4 「 RFC 7232 」に記載されている前提条件の要求ヘッダーと、 *PUT * 要求のサポート。
場所	応答	新しく作成されたリソースの完全な URL が含まれます。

クエリパラメータ

リソースコレクションでは、次のクエリパラメータを使用できます。を参照してください "コレクションを操作する" を参照してください。

クエリパラメータ	説明
含める	コレクションを読み取るときに返すフィールドが含まれています。
フィルタ	コレクションの読み取り時にリソースが返されるために一致しなければならないフィールドを示します。
OrderBy	コレクションの読み取り時に返されるリソースのソート順序を指定します。
制限（ Limit ）	コレクションの読み取り時に返されるリソースの最大数を制限します。
スキップします	コレクションの読み取り時に、パスオーバーおよびスキップするリソースの数を設定します。
カウント	メタデータオブジェクトで返されるリソースの総数。

HTTP ステータスコード

Astra Control REST API で使用される HTTP ステータスコードを次に示します。

Astra Control REST API は、 HTTP API * 標準の * 問題の詳細も使用します。を参照してください "診断とサポート" を参照してください。

コード	意味	説明
200	わかりました	新しいリソースインスタンスを作成しない呼び出しが成功したことを示します。
201	作成済み	オブジェクトが作成され、場所の応答ヘッダーにオブジェクトの一意の識別子が含まれている。
204	コンテンツがありません	要求は成功しましたが、コンテンツが返されませんでした。
400	無効な要求です	要求の入力が認識されないか不適切です。
401	権限がありません	ユーザは認証されていないため、認証が必要です。
403	禁止されている	認証エラーによりアクセスが拒否されました。
404	が見つかりません	要求で参照されているリソースが存在しません。
409	競合しています	オブジェクトがすでに存在するため、オブジェクトの作成に失敗しました。
500	内部エラー	サーバで一般的な内部エラーが発生しました。
503	サービスを利用できません	サービスは何らかの理由で要求を処理する準備ができていません。

URL 形式

REST API を使用したリソースインスタンスまたはコレクションへのアクセスに使用される URL の一般的な構造は、いくつかの値で構成されます。この構造は、基礎となるオブジェクトモデルとシステム設計を反映しています。

root としてアカウントを作成します

すべての REST エンドポイントへのリソースパスのルートは Astra アカウントです。そして、 URL 内のすべてのパスは「 /account/{account_id} 」で始まります。ここで、「 account_id 」はアカウントの一意の UUIDv4 値です。内部構造：すべてのリソースアクセスが特定のアカウントに基づいている設計を反映します。

エンドポイントリソースカテゴリ

Astra リソースエンドポイントは、次の 3 つのカテゴリに分類されます。

- コア (`/core')
- 管理対象アプリケーション (`/k8s')
- トポロジ (`/topology')

を参照してください "リソース" を参照してください。

カテゴリバージョン

3 つのリソースカテゴリのそれぞれに、アクセスされるリソースのバージョンを制御するグローバルバージョンがあります。規則と定義により ' リソース・カテゴリの新しいメジャー・バージョン (/v1' から /v2') に移行すると 'API の変更が破壊されます

リソースインスタンスまたはコレクション

リソースインスタンスまたはコレクションにアクセスするかどうかに基づいて、パスでリソースタイプと識別子の組み合わせを使用できます。

例

- リソースパス

  上記の構造に基づいて、エンドポイントへの一般的なパスは、「 /accounts/{account_id}/core/v1/users` です。

- 完全な URL

  対応するエンドポイントの完全なURLは次のとおりです。
  `https://astra.netapp.io/accounts/{account_id}/core/v1/users`。

リソースとエンドポイント

Astra Control REST APIを使用して提供されるリソースにアクセスすることで、Astraの導入を自動化できます。各リソースは、1つ以上のエンドポイントから使用できます。以下に、自動化導入の一環として使用できるRESTリソースの概要を示します。

> Astra Control リソースへのアクセスに使用されるパスと完全な URL の形式は、いくつかの値に基づいています。を参照してください "URL 形式" を参照してください。も参照してください "オンラインのAPIリファレンス" Astra のリソースとエンドポイントの使用方法の詳細については、を参照してください。

Astra Control REST リソースの要約

Astra Control REST API に用意されているプライマリリソースエンドポイントは、 3 つのカテゴリに分類されています。各リソースは、特定の場所を除いて、すべての CRUD 操作（作成、読み取り、更新、削除）を使用してアクセスできます。

[* リリース *] 列は、リソースが最初に導入されたときのアストラリリースを示します。このフィールドは、REST APIに最後に追加されたリソースに対して太字で表示されます。

コアリソース

コアリソースエンドポイントは、 Astra ランタイム環境の確立と保守に必要な基盤サービスを提供します。

リソース	リリース。	説明
アカウント：	21.12	アカウントリソースを使用すると、マルチテナント Astra Control 導入環境内の分離されたテナントを管理できます。
ASUP	21.08	ASUP リソースには、ネットアップサポートに転送される AutoSupport バンドルが表示されます。
証明書	22.08.	証明書リソースは、発信接続の強力な認証に使用されるインストール済み証明書を表します。

リソース	リリース。	説明
クレデンシャル	21.04	クレデンシャルリソースには、 Astra ユーザ、クラスタ、バケット、ストレージバックエンドで使用できるセキュリティ関連の情報が含まれています。
使用権	21.08	使用権リソースは、アクティブなライセンスとサブスクリプションに基づいて、アカウントで使用可能な機能と容量を表します。
イベント	21.04	イベントリソースは、通知として分類されたサブセットも含めて、システムで発生するすべてのイベントを表します。
実行フック	21.12	実行フックリソースは、管理対象アプリケーションのスナップショットの実行前または実行後に実行できるカスタムスクリプトを表します。
フィーチャー（ Feature ）	21.08	機能リソースは、選択した Astra 機能を表します。この機能を照会することで、システムで有効になっているか無効になっているかを確認できます。アクセスは読み取り専用に制限されます。
グループ	22.08.	グループリソースは、アストラグループと関連するリソースを表します。現在のリリースでは、LDAPグループのみがサポートされています。
フックソース	21.12	フックソースリソースは、実行フックで使用される実際のソースコードを表します。ソースコードを実行コントロールから分離すると、スクリプトを共有できるようにするなど、いくつかの利点があります。
LDAPグループ	22.1	設定したLDAPサーバ内のグループをリストできます。LDAPグループへのアクセスは読み取り専用です。
LDAPユーザ	22.11	設定したLDAPサーバ内のユーザをリストできます。LDAPユーザへのアクセスは読み取り専用です。
使用許諾	21.08	ライセンスリソースは、 Astra アカウントで使用可能なライセンスを表します。
通知	21.04	通知リソースは、通知の送信先を持つ Astra イベントを表します。アクセスはユーザ単位で提供されます。
パッケージ	22.04	パッケージリソースは、パッケージ定義の登録とアクセスを提供します。ソフトウェアパッケージは、ファイル、イメージ、その他のアーティファクトなどのさまざまなコンポーネントで構成されます。
アクセス権	2006年3月23日	権限リソースは、システム内の処理に関連する権限を表します。このAPIは、権限への読み取り専用アクセスを提供します。
ロール	2006年3月23日	役割リソースは、システムで使用可能な役割を表します。APIでは、ロールへの読み取り専用アクセスが提供されます。
ロールのバインド	21.04	ロールバインドリソースは ' 特定のユーザーとアカウントのペア間の関係を表します2 つの間のリンクに加えて、特定のロールを通じて各に一連の権限が指定されます。
設定	21.08	設定リソースは、特定のアストラアカウントの機能を説明するキーと値のペアの集まりです。
サブスクリプション。	21.08	サブスクリプションリソースは、 Astra アカウントのアクティブなサブスクリプションです。
タスク	22.11	タスクリソースは、管理タスクへの読み取り専用アクセスを提供し、内部の長時間実行タスクのステータスを表示するために使用できます。

リソース	リリース。	説明
トークン	21.04	トークンリソースとは、プログラムによって Astra Control REST API にアクセスできるトークンのことです。
未読通知	21.04	未読通知リソースは、特定のユーザーに割り当てられているがまだ読み込まれていない通知を表します。
アップグレード	22.04	アップグレードリソースを使用して、ソフトウェアコンポーネントにアクセスしたり、アップグレードを開始したりできます。
ユーザ	21.04	ユーザリソースは、 Astra を使用するユーザで、定義したロールに基づいてシステムにアクセスできる。

アプリケーションリソースの管理

管理対象アプリケーションリソースエンドポイントは、管理対象の Kubernetes アプリケーションへのアクセスを提供します。

リソース	リリース。	説明
アプリケーションアセット	21.04	アプリケーションアセットリソースは、 Astra アプリケーションの管理に必要な状態情報の内部コレクションです。
アプリケーションのバックアップ	21.04	アプリケーションのバックアップリソースは、管理対象アプリケーションのバックアップを表します。
アプリケーションスナップショット	21.04	アプリケーションスナップショットリソースは、管理対象アプリケーションのスナップショットを表します。
実行フックのオーバーライド	21.12	実行フックの上書きリソースを使用すると、特定のアプリケーションにプリインストールされているネットアップのデフォルトの実行フックを必要に応じて無効にできます。
スケジュール	21.04	スケジュールリソースとは、データ保護ポリシーの一部として管理対象アプリケーションにスケジュールされているデータ保護処理のことです。

トポロジリソース

トポロジリソースエンドポイントは、管理対象外のアプリケーションとストレージリソースへのアクセスを提供します。

リソース	リリース。	説明
APIリソース	22.11	APIリソースエンドポイントは、特定の管理対象クラスタ内のKubernetesリソースへの読み取り専用アクセスを提供します。
アプリケーション	21.04	アプリケーションリソースは、 Astra が管理していないアプリケーションも含め、 Kubernetes のすべてのアプリケーションを表します。
AppMirror（アプリケーションミラー）	22.08.	AppMirrorリソースは、アプリケーションのミラーリング関係を管理するためのAppMirrorリソースを表します。
バケット	21.08	バケットリソースは、 Astra が管理するアプリケーションのバックアップを保存するために使用する S3 クラウドバケットです。

リソース	リリース。	説明
クラウド	21.08	クラウドリソースとは、アストラクライアントから接続してクラスタやアプリケーションを管理できるクラウドのことです。
クラスタ	21.08	クラスタリソースは Kubernetes で管理されない Kubernetes クラスタを表します。
クラスタノード	21.12	クラスタノードリソースは、 Kubernetes クラスタ内の個々のノードにアクセスできるようにすることで、解決策を提供します。
管理対象クラスタ	21.08	管理対象クラスタリソースは、 Kubernetes で現在管理されている Kubernetes クラスタを表します。
ネームスペース	21.12	ネームスペースリソースは、 Kubernetes クラスタ内で使用されるネームスペースへのアクセスを提供します。
ストレージバックエンド	21.08	ストレージバックエンドリソースは、 Astra が管理するクラスタとアプリケーションで使用できるストレージサービスのプロバイダです。
ストレージクラス	21.08	ストレージクラスのリソースは、さまざまなクラスやタイプのストレージを表しており、特定の管理対象クラスタで使用できます。
ボリューム	21.04	ボリュームリソースは、管理対象アプリケーションに関連付けられた Kubernetes ストレージボリュームを表します。

その他のリソースとエンドポイント

Astra の導入をサポートするために使用できる追加のリソースとエンドポイントがいくつかあります。

これらのリソースとエンドポイントは、現在のところ、 Astra Control REST API リファレンスドキュメントに含まれていません。

OpenAPI

OpenAPI エンドポイントは、現在の OpenAPI JSON ドキュメントおよびその他の関連リソースへのアクセスを提供します。

OpenMetrics

OpenMetrics エンドポイントは、 OpenMetrics リソースを介してアカウントメトリックへのアクセスを提供します。サポートは、 Astra Control Center 導入モデルで利用できます。

その他の考慮事項については

RBAC セキュリティ

Astra REST APIは、ロールベースアクセス制御（RBAC）をサポートしており、システム機能へのアクセスを許可および制限します。

Astra の役割

すべての Astra ユーザには、実行可能なアクションを決定する 1 つのロールが割り当てられます。役割は、次の表に示すように階層構造になっています。

ロール	説明
オーナー	admin ロールのすべての権限が割り当てられており、 Astra アカウントを削除することもできます。
管理	メンバーの役割のすべての権限を持ち、ユーザーをアカウントに招待することもできます。
メンバー	Astra アプリケーションとコンピューティングのリソースを完全に管理できる。
ビューアー（ Viewer ）	リソースの表示のみに制限されます。

ネームスペース単位で強化された **RBAC**

この機能は、 Astra REST API の 22.04 リリースで導入されました。

特定のユーザに対してロールバインドが確立されている場合は、制約を適用して、ユーザがアクセスできるネームスペースを制限できます。次の表に示すように、この制約を定義する方法はいくつかあります。詳細については ' ロールバインド API の roleContraints パラメータを参照してください

ネームスペース	説明
すべて	ユーザは、ワイルドカードパラメータ「 * 」を使用してすべてのネームスペースにアクセスできます。これは、下位互換性を維持するためのデフォルト値です。
なし	拘束リストは指定されますが、空です。これは、ユーザがどのネームスペースにもアクセスできないことを示します。
ネームスペースリスト	ユーザを 1 つのネームスペースに制限するネームスペースの UUID が含まれています。カンマで区切ったリストを使用して、複数のネームスペースへのアクセスを許可することもできます。
ラベル	ラベルが指定され、一致するすべてのネームスペースへのアクセスが許可されます。

コレクションを操作する

Astra Control REST API には、定義されたクエリパラメータを使用してリソースコレクションにアクセスするためのさまざまな方法があります。

値の選択

各リソース・インスタンスに対して 'include' パラメータを使用して ' どのキーと値のペアを返すかを指定できますすべてのインスタンスが応答の本文で返されます。

フィルタリング

収集リソースのフィルタリングを使用すると、 API ユーザは、応答の本文でリソースが返されるかどうかを決定する条件を指定できます。「 filter 」パラメータは、フィルタリング条件を示すために使用されます。

並べ替え

収集リソースのソートを使用すると、 API ユーザは応答の本文でリソースが返される順序を指定できます。「 orderBy 」パラメータは、フィルタリング条件を示します。

ページ付け

制限パラメータを使用して ' 要求に対して返されるリソース・インスタンスの数を制限することにより ' ペー

ジ付けを強制できます

カウント

ブール値パラメータ「 count 」を「 true 」に設定した場合、返された応答の配列内のリソースの数がメタデータセクションに表示されます。

診断とサポート

診断とデバッグに使用できる Astra Control REST API には、いくつかのサポート機能が用意されています。

API リソース

API リソースからは、診断情報とサポート情報を提供する Astra 機能がいくつか提供されています。

を入力します	説明
イベント	アストラ処理の一部として記録されるシステムアクティビティ。
通知	ユーザに提供するのに十分な重要性があると見なされるイベントのサブセット。
未読通知	ユーザがまだ読み取りまたは取得していない通知。

API トークンを取り消します

不要になった API トークンは、 Astra Web インターフェイスで取り消すことができます。

作業を開始する前に

導入時にAstra Webユーザインターフェイスにサインインするには、クレデンシャルが必要です。 また、取り消すトークンを特定する必要があります。

このタスクについて

トークンが取り消されると、そのトークンはただちに永続的に使用できなくなります。

手順

1. 次のアカウントクレデンシャルを使用してAstraにサインインします。
   a. Astra Controlサービス： "https://astra.netapp.io"
   b. Astra Control Center：インストール時に設定したローカル環境のURLを使用します
2. ページの右上にある図のアイコンをクリックし、 * API access * を選択します。
3. 取り消すトークンまたはトークンを選択します。
4. [* アクション * （ * Actions * ）] ドロップダウンボックスで、 [トークンの無効化 * （ * Revoke tokens * ）] をクリック

インフラワークフロー

作業を開始する前に

これらのワークフローを使用して、Astra Control Centerの導入で使用するインフラストラクチャを作成および管理できます。多くの場合、このワークフローはAstra Control Serviceでも使用できます。

これらのワークフローは、ネットアップがいつでも拡張および強化できるため、定期的に確認する必要があります。

一般的な準備

いずれかの Astra ワークフローを使用する前に、を確認してください "ワークフローを使用する準備をします"。

ワークフローのカテゴリ

インフラのワークフローは、さまざまなカテゴリに分類されているため、必要なワークフローを簡単に見つけることができます。

カテゴリ	説明
ID とアクセス	これらのワークフローを使用すると、 Astra のアイデンティティとアクセス方法を管理できます。リソースには、ユーザ、クレデンシャル、トークンが含まれます。
LDAP の設定	必要に応じて、選択したユーザーの認証にLDAPを使用するようにAstra Control Centerを設定できます。
クラスタ	管理対象の Kubernetes クラスタを追加すると、クラスタに含まれるアプリケーションを保護およびサポートできるようになります。
クラウド	これらのワークフローは、Astra Control REST APIを使用して利用できるクラウドへのアクセスを提供します。
バケット	これらのワークフローを使用して、バックアップの格納に使用する S3 バケットを作成および管理できます。
ストレージ	これらのワークフローを使用して、ストレージバックエンドとストレージボリュームを追加および管理できます。

ID とアクセス

ユーザを一覧表示します

特定のアストラアカウントに対して定義されているユーザをリストできます。

1. ユーザをリストします

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / ｛account_id｝/core/v1/users

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
含める	クエリ	いいえ	必要に応じて、応答で返す値を選択します。

curl の例：すべてのユーザのすべてのデータを返します

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

curl の例：すべてのユーザの名前、姓、および **ID** を返します

```
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>'
```

JSON 出力例

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

ユーザを作成します

特定のクレデンシャルと事前定義されたロールを持つユーザを作成できます。必要に応じて、ユーザのアクセスを特定のネームスペースに制限することもできます。

1.ユーザ名を選択します

ワークフローを実行 "ユーザをリストします" をクリックし、現在使用されていない使用可能な名前を選択します。

2.ユーザを作成します

ユーザを作成するには、次のREST API呼び出しを実行します。コールが正常に完了すると、新しいユーザはまだ使用できなくなります。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /core/v1/users

JSON の入力例

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

カールの例

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

JSON 出力例

```
{
    "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.必要に応じて、許可する名前空間を選択します

ワークフローを実行 "ネームスペースを表示します" アクセスを制限するネームスペースを選択します。

4.ユーザをロールにバインドします

次のREST API呼び出しを実行してユーザをロールにバインドします。次の例では、ネームスペースへのアクセスに制限はありません。を参照してください "ネームスペース単位で強化された RBAC" を参照してください。

HTTP メソッド	パス
投稿（ Post ）	/accounts/{account_id}/core/v1/roleBindings

JSON の入力例

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

カールの例

```
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.資格情報を作成します

次のREST API呼び出しを実行して、クレデンシャルを作成してユーザに関連付けます。この例では、base64値として提供されるパスワードを使用します。。 `name` プロパティには、前の手順で返されたユーザのIDが含まれている必要があります。入力プロパティ `change` base64でエンコードされたユーザは、初回ログイン時にパスワードを変更する必要があるかどうかを確認する必要もあります (`true` または `false`）。

> この手順は、ローカル認証を使用するAstra Control Centerの導入でのみ必要です。LDAPまたはAstra Control Serviceを使用したAstra Control Centerの導入では必要ありません。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /core/v1/credentials

JSON の入力例

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

カールの例

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

LDAP の設定

LDAP構成を準備

必要に応じて、Astra Control CenterをLightweight Directory Access Protocol（LDAP）サーバーと統合して、選択したAstraユーザーの認証を実行できます。LDAPは、分散ディレクトリ情報にアクセスするための業界標準プロトコルであり、エンタープライズ認証に広く使用されています。

関連情報

- "LDAPテクニカル・スペシフィケーション・ロード・マップ"
- "LDAPバージョン3"

実装プロセスの概要

大まかには、Astraユーザに認証を提供するためにLDAPサーバを設定するためには、いくつかの手順を実行する必要があります。

以下に示す手順は順序どおりですが、場合によっては別の順序で実行できます。たとえば、LDAPサーバを設定する前に、Astraのユーザとグループを定義できます。

1. レビュー "要件および制限事項" をクリックして、オプション、要件、および制限事項を確認してください。
2. LDAPサーバおよび必要な設定オプション（セキュリティを含む）を選択します。

3. ワークフローを実行 "AstraでLDAPサーバを使用するように設定する" AstraとLDAPサーバを統合する。
4. LDAPサーバでユーザとグループを調べて、適切に定義されていることを確認します。
5. で適切なワークフローを実行します "AstraにLDAPエントリを追加" LDAPを使用して認証するユーザを指定します。

要件および制限事項

認証にLDAPを使用するようにAstraを設定する前に、制限事項や設定オプションなど、ネットアップが提供する基本的な設定を確認しておく必要があります。

Astra Control Centerでのみサポートされます

Astra Controlプラットフォームには、2つの導入モデルがあります。LDAP認証はAstra Control Centerの導入でのみサポートされます。

REST APIまたは**Web**ユーザインターフェイスを使用した設定

現在のリリースのAstra Control Centerでは、Astra Control REST APIとAstra Webユーザインターフェイスの両方を使用したLDAP認証の設定がサポートされています。

LDAPサーバが必要です

Astra認証要求を受け入れて処理するには、LDAPサーバが必要です。MicrosoftのActive Directoryは、現在のAstra Control Centerリリースでサポートされています。

LDAPサーバへのセキュアな接続

AstraでLDAPサーバを設定する場合、必要に応じてセキュアな接続を定義できます。この場合は、LDAPSプロトコルの証明書が必要です。

ユーザまたはグループを設定します

LDAPを使用して認証するユーザを選択する必要があります。これは、個々のユーザまたはユーザのグループを指定することで実行できます。アカウントはLDAPサーバで定義する必要があります。また、認証要求をLDAPに転送できるようにするために、Astra（タイプLDAP）で識別する必要もあります。

ユーザまたはグループをバインドするときのロールの制約

現在リリースされているAstra Control Centerでは、「roleConstraint」でサポートされている値は「*」のみです。これは、ユーザがネームスペースの制限に制限されておらず、すべてのネームスペースにアクセスできることを示しています。を参照してください "AstraにLDAPエントリを追加" を参照してください。

LDAPクレデンシャル

LDAPで使用されるクレデンシャルには、ユーザ名（Eメールアドレス）と関連付けられたパスワードが含まれます。

一意の**E**メールアドレス

Astra Control Center環境でユーザ名として機能するすべての電子メールアドレスは、一意である必要があります。Astraにすでに定義されているEメールアドレスを持つLDAPユーザを追加することはできません。重複するEメールが存在する場合は、最初にAstraから削除する必要があります。を参照してください "ユーザを削除します" 詳細については、Astra Control Centerのドキュメントサイトを参照してください。

必要に応じて、**LDAP**ユーザおよびグループを先に定義します

LDAPユーザとグループは、LDAPにまだ存在していない場合やLDAPサーバが設定されていない場合でも、Astra Control Centerに追加できます。これにより、LDAPサーバを設定する前にユーザとグループを事前

に設定できます。

複数の**LDAP**グループに定義されたユーザ

あるLDAPユーザが複数のLDAPグループに属していて、グループにAstraで別々のロールが割り当てられている場合、認証時にそのユーザの有効なロールが最も特権的に使用されます。たとえば'ユーザにgroup1でビューア・ロールが割り当てられていて'group2でメンバー・ロールが割り当てられている場合'そのユーザのロールは'member'になりますこれは、Astraが使用する階層に基づいています（最高から最低まで）。

- オーナー
- 管理
- メンバー
- ビューアー（ Viewer ）

定期的なアカウント同期

Astraは、ユーザーとグループを約60秒ごとにLDAPサーバーと同期します。したがって、ユーザまたはグループがLDAPに追加またはLDAPから削除されると、Astraで利用可能になるまでに最大1分かかる場合があります。

LDAP設定の無効化とリセット

LDAP設定をリセットする前に、LDAP認証を無効にする必要があります。また'LDAPサーバ(connectionHost')を変更するには'両方の操作を実行する必要がありますを参照してください "LDAPを無効にしてリセットします" を参照してください。

REST APIパラメータ

LDAPの設定ワークフローは、特定のタスクを実行するためにREST API呼び出しを実行します。各API呼び出しについて、表示されるサンプルに示すような入力パラメータを含めることができます。を参照してください "オンラインのAPIリファレンス" 参照ドキュメントの検索方法については、を参照してください。

Astraで**LDAP**サーバを使用するように設定する

LDAPサーバを選択し、認証プロバイダとしてサーバを使用するようにAstraを設定する必要があります。設定タスクは、以下に説明する手順で構成されています。各手順には、単一のREST API呼び出しが含まれています。

1. CA証明書を追加します

次のREST API呼び出しを実行して、AstraにCA証明書を追加します。

この手順は省略可能で、LDAPSを使用してセキュアなチャネル経由で送信する場合にのみ必要です。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /core/v1/certificates

JSON の入力例

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

入力パラメータについては、次の点に注意してください。

- 「cert」は、Base64でエンコードされたPKCS-11フォーマット証明書(PEMエンコード)を含むJSON文字列です。
- 証明書が自己署名されている場合は'isSelfSignedをtrueに設定する必要がありますデフォルトは「 false 」です。

カールの例

```
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>'
```

JSON応答例

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "id": "a5212e7e-402b-4cff-bba0-63f3c6505199",
  "certUse": "rootCA",
  "cert": "LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUMyVEN",
  "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.バインドクレデンシャルを追加

バインドクレデンシャルを追加するには、次のREST API呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /core/v1/credentials

JSON の入力例

```
{
  "name": "ldapBindCredential",
  "type": "application/astra-credential",
  "version": "1.1",
  "keyStore": {
    "bindDn": "dWlkPWFkbWluLG91PXN5c3RlbQ==",
    "password": "cGFzc3dvcmQ="
  }
}
```

入力パラメータについては、次の点に注意してください。

- 「BindDN」と「password」は、LDAPディレクトリに接続して検索できるLDAP管理ユーザのBase64でエンコードされたバインドクレデンシャルです。「BindDN」は、LDAPユーザのEメールアドレスです。

カールの例

```
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>'
```

JSON応答例

```
{
    "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"
    }
}
```

次の応答パラメータに注意してください。

- 認証情報の「id」は、以降のワークフローの手順で使用されます。

3. LDAP設定のUUIDを取得します

次のREST API呼び出しを実行して'Astra Control Centerに含まれている'Astra .account.ldap'設定のUUIDを取得します

> 次のcurlの例では、クエリパラメータを使用してsettingsコレクションをフィルタリングしています。代わりに'フィルタを削除してすべての設定を取得し'Astra .account.ldap'を検索することもできます

HTTPメソッド	パス
取得	/accounts / {account_id} /core/v1/settings

カールの例

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

JSON応答例

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

4. LDAP設定を更新します

次のREST API呼び出しを実行してLDAP設定を更新し、設定を完了します。以下のURLパスの「<Setting_ID>`」の値には、前のAPI呼び出しで取得した「id」値を使用します。

configSchemaを最初に表示するには、特定の設定に対するGET要求を問題 に送信します。これにより、構成内の必須フィールドの詳細が表示されます。

HTTP メソッド	パス
PUT	/accounts / {account_id} /core/v1/settings/ {setting_id}

JSON の入力例

```
{
  "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"
    }
}
```

入力パラメータについては、次の点に注意してください。

- IsEnabledは'true'に設定する必要がありますそうしないと'エラーが発生する可能性があります
- 「credentialId」は、前に作成したバインドクレデンシャルのIDです。
- 「secureMode」は、前の手順で設定した内容に基づいて「ldap」または「LDAPS」に設定する必要があ

ります。

- ベンダーとしてサポートされているのは「Active Directory」のみです。

カールの例

```
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>'
```

呼び出しが成功すると、HTTP 204の応答が返されます。

5. LDAP設定を取得します

必要に応じて、次のREST API呼び出しを実行し、LDAP設定を取得して更新を確認することができます。

HTTP メソッド	パス
取得	/accounts / {account_id} /core/v1/settings/ {setting_id}

カールの例

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

JSON応答例

```
{
  "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": {}
}
```


次の表のいずれかの値を持つ応答内の'state'フィールドを探します

状態	説明
保留中です	設定プロセスはまだアクティブで、まだ完了していません。
有効	構成は正常に完了しました。応答の「CurrentConfig」は「desiredConfig」と一致します。
エラー	LDAP設定プロセスに失敗しました。

AstraにLDAPエントリを追加

Astra Control Centerの認証プロバイダとしてLDAPを設定したら、AstraがLDAPクレデンシャルを使用して認証するLDAPユーザを選択できます。各ユーザがAstraでAstra Control REST APIを使用してAstraにアクセスするには、Astraでロールを持つ必要があります。

Astraを設定してロールを割り当てるには、2つの方法があります。環境に適したものを選択してください。

- "個々のユーザを追加してバインドします"
- "グループを追加してバインドします"

LDAPクレデンシャルは、ユーザ名の形式でEメールアドレスおよび関連付けられたLDAPパスワードです。

個々のユーザを追加してバインドします

LDAP認証後に使用する各Astraユーザにロールを割り当てることができます。これは、ユーザの数が少なく、それぞれの管理特性が異なる場合に適しています。

1.ユーザを追加します

次のREST API呼び出しを実行してAstraにユーザを追加し、LDAPが認証プロバイダであることを示します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /core/v1/users

JSON の入力例

```
{
  "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"
}
```

入力パラメータについては、次の点に注意してください。

- 次のパラメータが必要です。
  - 「authProvider」のように指定します
  - 「authid」
  - 「電子メール」
- 「authid」は、LDAPのユーザの識別名（DN）です
- 「email」は、Astraで定義されたすべてのユーザに一意である必要があります

「email」の値が一意でない場合は、エラーが発生し、応答に409 HTTPステータスコードが返されます。

カールの例

```
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>'
```

JSON応答例

```
{
  "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.ユーザのロールバインディングを追加します

次のREST API呼び出しを実行して、ユーザを特定のロールにバインドします。前の手順で作成したユーザのUUIDを用意する必要があります。

HTTP メソッド	パス
投稿（ Post ）	/accounts/{account_id}/core/v1/roleBindings

JSON の入力例

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

入力パラメータについては、次の点に注意してください。

- 前述の「roleConstraint」の値は、Astraの現在のリリースで使用できる唯一のオプションです。ユーザがネームスペースの制限付きのセットに制限されておらず、すべてのネームスペースにアクセスできることを示しています。

カールの例

```
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>'
```

JSON応答例

```
{
  "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": ["*"]
}
```

応答パラメータについては、次の点に注意してください。

- 「principalType」フィールドの値「user」は、（グループではなく）ユーザにロールバインディングが追加されたことを示します。

グループを追加してバインドします

LDAP認証後に使用するAstraグループにロールを割り当てることができます。これは、ユーザが多数あり、それぞれに類似した管理特性がある場合に適しています。

1.グループを追加します

次のREST API呼び出しを実行してAstraにグループを追加し、LDAPが認証プロバイダであることを示します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /core/v1/groups

JSON の入力例

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

入力パラメータについては、次の点に注意してください。

- 次のパラメータが必要です。
  - 「authProvider」のように指定します
  - 「authid」

カールの例

```
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>'
```

JSON応答例

```
{
  "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.グループのロールバインドを追加します

次のREST API呼び出しを実行して、グループを特定のロールにバインドします。前の手順で作成したグループのUUIDが必要です。LDAPが認証を実行すると、グループのメンバーであるユーザはAstraにサインインできるようになります。

HTTP メソッド	パス
投稿（ Post ）	/accounts/{account_id}/core/v1/roleBindings

JSON の入力例

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

入力パラメータについては、次の点に注意してください。

- 前述の「roleConstraint」の値は、Astraの現在のリリースで使用できる唯一のオプションです。ユーザが特定のネームスペースに制限されておらず、すべてのネームスペースにアクセスできることを示しています。

カールの例

```
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>'
```

JSON応答例

```
{
  "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": ["*"]
}
```

応答パラメータについては、次の点に注意してください。

- 「ライセンスタイプ」フィールドの値「group」は、（ユーザではなく）グループにロールバインディングが追加されたことを示します。

LDAPを無効にしてリセットします

必要に応じてAstra Control Centerの導入で実行できる、関連する管理タスクには2つのオプションがあります。LDAP認証をグローバルに無効にし、LDAP設定をリセットできます。

どちらのワークフロータスクにも'Astrer.account.ldap`Astra設定のIDが必要です設定IDの取得方法の詳細については、「LDAPサーバの設定」*を参照してください。を参照してください "LDAP設定のUUIDを取得します" を参照してください。

- "LDAP認証を無効にします"
- "LDAP認証設定をリセットします"

LDAP認証を無効にします

次のREST API呼び出しを実行して、特定のアストラ環境に対してLDAP認証をグローバルに無効にすることができます。コールは'Astra .account.ldap'設定を更新し'IsEnabled'値は'false'に設定されます

HTTP メソッド	パス
PUT	/accounts / {account_id} /core/v1/settings/ {setting_id}

JSON の入力例

```
{
  "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>'
```

コールが成功すると'HTTP 204'応答が返されます必要に応じて、設定をもう一度取得して変更を確認することもできます。

LDAP認証設定をリセットします

次のREST API呼び出しを実行して、AstraをLDAPサーバから切断し、AstraでLDAP設定をリセットできます。コールは'Astra .account.ldap'の設定と'connectionHost'の値を更新します

IsEnabledの値も'false'に設定する必要がありますこの値は、リセットコールの前に設定することも、リセットコールの一部として設定することもできます。2番目の場合、「connectionHost」はクリアし、「IsEnabled」は同じリセットコールでfalseに設定する必要があります。

これはシステムの停止を伴う処理なので、注意してください。インポートされたLDAPユーザおよびグループがすべて削除されます。また、Astra Control Centerで作成した関連するAstraユーザー、グループ、役割バインディング(LDAPタイプ)もすべて削除されます。

HTTP メソッド	パス
PUT	/accounts / {account_id} /core/v1/settings/ {setting_id}

JSON の入力例

```
{
  "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"
    }
}
```

次の点に注意してください。

- LDAPサーバを変更するには'前述の例に示すように'LDAPを無効にしてから再設定して'connecthost'をnull値に変更する必要があります

```
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>'
```

コールが成功すると'HTTP 204'応答が返されます必要に応じて、設定を再取得して変更を確認することもできます。

クラスタ

クラスタをリストします

特定のクラウドで使用可能なクラスタをリストできます。

1.クラウドを選択します

ワークフローを実行 "クラウドをリストしてください" をクリックし、クラスタを含むクラウドを選択します。

2.クラスタを表示します

特定のクラウドにあるクラスタを表示するには、次のREST API呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1 /雲/ {cloud_id} / clusters

curl の例：すべてのクラスタのすべてのデータを返します

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

JSON 出力例


```
{
    "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",
                "postgreql",
                "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"
            }
        }
    ]
}
```

クレデンシャルを使用してクラスタを追加する

クラスタを追加して、Astraで管理できるようにすることができます。Astra 22.11リリース以降、Astra Control CenterとAstra Control Serviceの両方でクラスタを追加できるようになりました。

主要なクラウドプロバイダ（AKS、EKS、GKE）のいずれかからKubernetesサービスを使用する場合、クラスタの追加は必要ありません。

1. kubeconfigファイルを取得します

Kubernetesの管理者またはサービスから* kubconfig *ファイルのコピーを取得する必要があります。

2. kubeconfigファイルを準備します

*kubeconfig *ファイルを使用する前に、次の操作を実行する必要があります。

ファイルを**YAML**形式から**JSON**に変換します

YAML形式のkubeconfigファイルを受信した場合は、JSONに変換する必要があります。

base64で**JSON**をエンコードします

base64のJSONファイルをエンコードする必要があります。

例

次に、kubeconfigファイルをYAMLからJSONに変換し、base64でエンコードする例を示します。

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

3.クラウドを選択します

ワークフローを実行 "クラウドをリストしてください" をクリックし、クラスタを追加するクラウドを選択します。

選択できるクラウドは*プライベート*クラウドのみです。

4.認証情報を作成します

次のREST API呼び出しを実行して、kubeconfigファイルを使用してクレデンシャルを作成します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /core/v1/credentials

JSON の入力例

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

カールの例

```
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.クラスタを追加します

次のREST API呼び出しを実行してクラスタをクラウドに追加します。の値 `credentialID` 入力フィールドは、前の手順でREST API呼び出しから取得されます。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /topology/v1 /雲/ ｛cloud_id｝ / clusters

JSON の入力例

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

カールの例

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

管理対象クラスタをリストします

Astra が現在管理している Kubernetes クラスタをリストできます。

1.管理対象クラスタの一覧を表示します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1 / managedClusters

curl の例：すべてのクラスタのすべてのデータを返します

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

クラスタを管理

Kubernetesクラスタを管理して、データ保護を実行できます。

1.管理するクラスタを選択します

ワークフローを実行 "クラスタをリストします" をクリックし、目的のクラスタを選択します。プロパティ `managedState` クラスタのがである必要があります `unmanaged`。

2.必要に応じて、ストレージクラスを選択します

必要に応じてワークフローを実行します "ストレージクラスをリストします" をクリックし、目的のストレージクラスを選択します。

クラスタを管理するためのストレージクラスを指定しなかった場合は、デフォルトのストレージクラスが使用されます。

3.クラスタを管理します

クラスタを管理するために次のREST API呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /topology/v1 / managedClusters

JSON の入力例

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

カールの例

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

クラウド

クラウドをリストしてください

特定のアストラアカウントで定義され、使用可能なクラウドをリストできます。

1.クラウドのリスト

以下のREST API呼び出しを実行してクラウドを表示します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1 /雲

curlの例：すべてのクラウドのすべてのデータを返します

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

バケット

バケットをリストします

特定のアストラアカウント用に定義された S3 バケットをリストできます。

1. バケットをリストします

次のREST API呼び出しを実行してバケットを表示します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1 /バケット

curl の例：すべてのバケットのすべてのデータを返します

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

ストレージ

ストレージクラスをリストします

使用可能なストレージクラスをリストできます。

1.クラウドを選択します

ワークフローを実行 "クラウドをリストしてください" 作業するクラウドを選択します。

2.クラスタを選択します

ワークフローを実行 "クラスタをリストします" をクリックし、クラスタを選択します。

3.特定のクラスタのストレージクラスを一覧表示します

次のREST API呼び出しを実行して、特定のクラスタとクラウドのストレージクラスを一覧表示します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1 /雲/<CLOUD_ID> /<CLUSTER_ID> / storageClasses

curlの例：すべてのストレージクラスのすべてのデータを返します

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

JSON 出力例


```
{
    "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": []
            }
        }
    ]
}
```


ストレージバックエンドをリストします

使用可能なストレージバックエンドを表示できます。

1.バックエンドをリストします

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /topology/v1/storageBackends

cURL の例：すべてのストレージバックエンドのすべてのデータを返します

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

JSON 出力例


```
{
  "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"
    }
  ]
}
```


自己管理型クラスタ向けに動的**ANF**プールを有効化

ANFストレージバックエンドを備えたプライベートオンプレミスクラスタで管理対象ア

プリケーションをバックアップする場合は、動的なANFプール機能を有効にする必要があります。これには、容量プールを拡張および縮小するときに使用するサブスクリプションIDを指定します。

> 動的ANFプールは、Azure NetApp Files（ANF）ストレージバックエンドを使用するAstraが管理するアプリケーションの機能です。これらのアプリケーションをバックアップすると、永続ボリュームが属する容量プールがAstraによって自動的に1.5倍に拡張および縮小されます。これにより、追加の恒久的な料金を支払うことなく、バックアップ用の十分なスペースが確保されます。を参照してください "Azureアプリケーションのバックアップ" を参照してください。

1. Azureサブスクリプション**ID**を追加します

次の REST API 呼び出しを実行します。

> サブスクリプションIDやサービスプリンシパルのbase64値など、環境に応じてJSON入力例を更新する必要があります。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /core/v1/credentials

JSON の入力例

```
{
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "UGhpcyCpcyBhbiBleGFtcGxlLg==",
    "base64":
"fwogICAgJmFwcElkIjogIjY4ZmSiODFiLTY0YWYtNDdjNC04ZjUzLWE2NDdlZTUzMGZkZCIsC
iAgICAiZGlzcGxheU5hbWUiOiAic3AtYXN0cmEtZGV2LXFhIiwKICAgICJuYW1lIjogImh0dHA
6Ly9zcC1hc3RyYS1kZXYtcWEiLAogICAgInBhc3N3b3JkIjogIllLQThRfk9IVVJkZWZYM0pST
WJlLnpUeFBleVE0UnNwTG9DcUJjazAiLAogICAgInRlbmFudCI6ICIwMTFjZGY2Yy03NTEyLTQ
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"
      }
    ]
  }
}
```

カールの例

```
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.必要に応じてバケットを追加します

必要に応じて、管理対象アプリケーションにバケットを追加する必要があります。

3.管理対象アプリのバックアップを作成します

ワークフローを実行 "アプリケーションのバックアップを作成する"。元の永続ボリュームが存在する容量プールは、自動的に拡張および縮小されます。

4.イベントログを確認します

アクティビティイベントはバックアップ中に記録されます。ワークフローを実行 "通知を一覧表示します" をクリックしてメッセージを表示します。

管理ワークフロー

作業を開始する前に

これらのワークフローは、Astra管理対象クラスタでアプリケーションを管理する際に使用できます。

これらのワークフローは、ネットアップがいつでも拡張および強化できるため、定期的に確認する必要があります。

一般的な準備

いずれかの Astra ワークフローを使用する前に、を確認してください "ワークフローを使用する準備をします"。

ワークフローのカテゴリ

管理ワークフローは、目的のワークフローを見つけやすくするために、さまざまなカテゴリに分類されています。

カテゴリ	説明
アプリケーション制御	これらのワークフローでは、管理対象アプリケーションと管理対象外アプリケーションを制御できます。アプリをリスト表示したり、管理アプリを作成および削除したりできます。
アプリケーションの保護	これらのワークフローを使用して、 Snapshot とバックアップを通じて管理対象アプリケーションを保護することができます。
アプリケーションのクローニングとリストア	ここでは、管理対象アプリケーションのクローニングとリストアのワークフローについて説明します。
サポート	アプリケーションと一般的な Kubernetes 環境をデバッグおよびサポートするためのワークフローがいくつかあります。

その他の考慮事項については

管理ワークフローを使用する場合は、さらにいくつかの点を考慮する必要があります。

アプリケーションのクローンを作成します

アプリケーションのクローニングでは、いくつかの点を考慮する必要があります。以下に、 JSON 入力のパラメータを示します。

ソースクラスタの識別子

「 ourceClusterID 」の値は、元のアプリケーションがインストールされているクラスタを常に識別します。

クラスタ **ID**

「 ClusterId 」の値は、新しいアプリケーションをインストールするクラスタを識別します。

- 同じクラスタ内でクローニングする場合、「 ClusterId 」と「 ourceClusterID 」には同じ値があります。
- クラスタ間でクローンを作成する場合 ' 2 つの値は異なる値であり 'ClusterId' はターゲット・クラスタの ID である必要があります

ネームスペース

「 namespace 」の値は、元のソースアプリケーションとは異なる値にする必要があります。さらに、クローンのネームスペースを作成できず、 Astra がそのクローンを作成します。

バックアップとスナップショット

オプションで 'backupid' または 'napshotID' パラメータを使用して ' 既存のバックアップまたはスナップショットからアプリケーションのクローンを作成できますバックアップまたはスナップショットを指定しない場合は、まずアプリケーションのバックアップを作成し、次にバックアップからクローンを作成します。

アプリケーションの復元

アプリケーションをリストアする際に考慮すべき事項をいくつか示します。

- アプリケーションのリストアは、クローニング処理とほぼ同じです。
- アプリケーションをリストアするときは、バックアップまたはスナップショットを指定する必要があります。

アプリコントロール

アプリを表示します

Astra が現在管理しているアプリケーションをリストできます。特定のアプリケーションの Snapshot やバックアップを検索する際に、この操作を行うことができます。

1. アプリケーションを一覧表示します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/account/{account_id}/k8s/v2/apps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
含める	クエリ	いいえ	必要に応じて、応答で返す値を選択します。

curl の例：すべてのアプリケーションのすべてのデータを返します

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

curl の例：すべてのアプリケーションの名前、 **ID** 、および状態を返します

```
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>'
```

JSON 出力例

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

アプリを入手する

単一のアプリケーションを記述するすべてのリソース変数を取得できます。

作業を開始する前に

取得するアプリケーションのIDが必要です。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。

1. アプリケーションを取得します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /k8s/v2/apps/ {app_id}

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	取得するアプリケーションのID値。

curl の例：アプリケーションのすべてのデータを返します

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

アプリを管理します

特定のネームスペースですでにAstraが認識しているアプリケーションに基づいて、管理アプリケーションを作成できます。アプリケーションをAstraで管理または定義した場合、バックアップとスナップショットを作成してアプリケーションを保護できます。

1.名前空間を選択します

ワークフローを実行 "ネームスペースを表示します" ネームスペースを選択します。

2.クラスタを選択します

ワークフローを実行 "クラスタをリストします" をクリックし、クラスタを選択します。

3.アプリケーションを管理します

アプリケーションを管理するために次のREST API呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /k8s/v2/apps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
JSON	ボディ（Body）	はい。	管理対象アプリケーションを識別するために必要なパラメータを提供します。以下の例を参照してください。

JSON の入力例

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

curl の例：アプリケーションの管理

```
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
```

アプリの管理を解除します

管理対象アプリが不要になった場合は削除できます。管理アプリケーションを削除すると、関連付けられているスケジュールも削除されます。

作業を開始する前に

管理を解除するアプリのIDが必要です。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。

アプリケーションのバックアップと Snapshot は、削除されても自動的には削除されません。バックアップと Snapshot が不要になった場合は、アプリケーションを削除する前に削除する必要があります。

1. アプリをアンマネージします

次のREST API呼び出しを実行してアプリケーションを削除します。

HTTP メソッド	パス
削除	/accounts / {account_id} /k8s/v2/apps/ {app_id}

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使

用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	削除するアプリケーションを指定します。

curl の例：管理対象アプリケーションを削除します

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

アプリケーションの保護

Snapshot を一覧表示します

特定のアプリケーションに対して作成されたスナップショットを一覧表示できます。

作業を開始する前に

スナップショットを表示するアプリケーションのIDが必要です。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。

1. スナップショットを一覧表示します

次のREST API呼び出しを実行してSnapshotを表示します。

HTTP メソッド	パス
取得	/accounts / {account_id} /k8s/v1/apps/ {app_id} /appSnaps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	リストされたスナップショットを所有するアプリケーションを識別します。
カウント	クエリ	いいえ	'count=true' の場合 ' スナップショットの数は応答のメタデータセクションに含まれます

curl の例：アプリケーションのすべてのスナップショットを返します

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

curl の例：アプリケーションのすべてのスナップショットとカウントを返します

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

JSON 出力例


```
{
    "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": {}
}
```


バックアップをリスト表示します

特定のアプリケーション用に作成されたバックアップをリストできます。

作業を開始する前に

バックアップを表示するアプリケーションのIDが必要です。必要に応じて、ワークフローを使用できます "ア

プリを表示します" アプリケーションを検索します。

1. バックアップを一覧表示します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /k8s/v1/apps/ {app_id} /appBackups

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	リストされたバックアップを所有する管理アプリケーションを指定します。

curl の例：アプリケーションのすべてのバックアップを返します

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

JSON 出力例

```
{
    "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": {}
}
```


アプリケーションのスナップショットを作成します

特定のアプリケーションのスナップショットを作成できます。

作業を開始する前に

スナップショットを作成するアプリケーションのIDが必要です。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。

1. スナップショットを作成します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /k8s/v1/apps/ ｛app_id｝ /appSnaps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	Snapshot を作成する管理対象アプリケーションを指定します。
JSON	ボディ（ Body ）	はい。	Snapshot のパラメータを提供します。以下の例を参照してください。

JSON の入力例

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

curl の例：アプリケーションのスナップショットを作成します

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

アプリケーションのバックアップを作成する

特定のアプリケーションのバックアップを作成し、そのバックアップを使用してアプリケーションのリストアやクローニングを行うことができます。

作業を開始する前に

バックアップするアプリケーションのIDが必要です。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。

1. バックアップを作成します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /k8s/v1/apps/ {app_id} /appBackups

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	バックアップを作成するアプリケーションを指定します。
JSON	ボディ（ Body ）	はい。	バックアップのパラメータが表示されます。以下の例を参照してください。

JSON の入力例

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

curl の例：アプリケーションのバックアップを作成します

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

Snapshot を削除します

アプリケーションに関連付けられているSnapshotを削除できます。

作業を開始する前に

次の情報が必要です。

- スナップショットを所有するアプリケーションのID。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。
- 削除する Snapshot の ID 。必要に応じて、ワークフローを使用できます "Snapshot を一覧表示します" をクリックしてください。

1. スナップショットを削除します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
削除	/accounts / {account_id} /k8s/v1/apps/ {app_id} /appSnaps/ {appSnap_id}

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	スナップショットを所有する管理アプリケーションを指定します。
Snapshot ID	パス	はい。	削除する Snapshot を指定します。

curl の例：アプリケーションのスナップショットを **1** つ削除します

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

バックアップを削除します

アプリケーションに関連付けられているバックアップを削除することができます。

作業を開始する前に

次の情報が必要です。

- バックアップを所有するアプリケーションのID。必要に応じて、ワークフローを使用できます "アプリを表示します" アプリケーションを検索します。
- 削除するバックアップの ID 。必要に応じて、ワークフローを使用できます "バックアップをリスト表示します" をクリックしてください。

1. バックアップを削除します

次の REST API 呼び出しを実行します。

障害が発生したバックアップは、次に示すオプションの要求ヘッダーを使用して強制的に削除できます。

HTTP メソッド	パス
削除	/accounts / {account_id} /k8s/v1/apps/ {app_id} /appBackups / {appBackup_id}

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
アプリケーションID	パス	はい。	バックアップを所有する管理アプリケーションを指定します。
バックアップ ID	パス	はい。	削除するバックアップを指定します。
強制的に削除します	ヘッダー	いいえ	失敗したバックアップを強制的に削除する場合に使用します。

curl の例：アプリケーションのバックアップを **1** つ削除します

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

curl の例： **force** オプションを使用して、アプリケーションのバックアップを **1** つ削除します

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

データ保護ポリシーを作成する

1つ以上のスケジュールに基づいてデータ保護ポリシーを作成できます。

1.アプリを選択します

ワークフローを実行 "アプリを表示します" をクリックし、目的のアプリケーションを選択します。

2.保護を作成します

次のREST API呼び出しを実行して、特定のアプリケーションの保護ポリシーを作成します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /k8s/v1/apps/ {app_id} /schedules

JSON の入力例

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

カールの例

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

アプリケーションのクローニングとリストア

アプリケーションのクローンを作成します

既存のアプリケーションをクローニングして、新しいアプリケーションを作成できます。

作業を開始する前に

このワークフローについては、次の点に注意してください。

- アプリケーションのバックアップまたはスナップショットは使用されません
- クローニング処理は同じクラスタ内で実行されます
- 新しいアプリケーションは別のネームスペースに配置されます

アプリケーションを別のクラスタにクローニングするには、 JSON 入力の「 clusterId 」パラメータを環境に応じて更新する必要があります。

1.クローンを作成するアプリケーションを選択します

ワークフローを実行 "アプリを表示します" をクリックし、クローニングするアプリケーションを選択します。アプリケーションのクローニングに使用される REST 呼び出しには、いくつかのリソース値が必要です。

2. アプリを複製します

次のREST API呼び出しを実行してアプリケーションをクローニングします。

HTTP メソッド	パス
投稿（ Post ）	/accounts / {account_id} /k8s/v2/apps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
JSON	ボディ（ Body ）	はい。	クローニングされたアプリケーションのパラメーターを提供します。以下の例を参照してください。

JSON の入力例

```
{
  "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"
}
```

curl の例：アプリケーションのクローンを作成します

```
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
```

スナップショットからアプリケーションをクローニングします

Snapshotからクローニングして新しいアプリケーションを作成できます。

作業を開始する前に

このワークフローについては、次の点に注意してください。

- アプリケーションスナップショットが使用されます
- クローニング処理は同じクラスタ内で実行されます

アプリケーションを別のクラスタにクローニングするには、 JSON 入力の「 clusterId 」パラメータを環境に応じて更新する必要があります。

1.クローンを作成するアプリケーションを選択します

ワークフローを実行 "アプリを表示します" をクリックし、クローニングするアプリケーションを選択します。アプリケーションのクローニングに使用される REST 呼び出しには、いくつかのリソース値が必要です。

2. 使用するスナップショットを選択します

ワークフローを実行 "Snapshot を一覧表示します" をクリックし、使用する Snapshot を選択します。

3. アプリを複製します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /k8s/v2/apps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
JSON	ボディ（ Body ）	はい。	クローニングされたアプリケーションのパラメーターを提供します。以下の例を参照してください。

JSON の入力例

```
{
  "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"
}
```

curl の例： **Snapshot** からアプリケーションをクローニングします

```
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
```

バックアップからアプリケーションをクローニングする

新しいアプリケーションは、バックアップからクローニングして作成できます。

作業を開始する前に

このワークフローについては、次の点に注意してください。

- アプリケーションのバックアップが使用されます
- クローニング処理は同じクラスタ内で実行されます

アプリケーションを別のクラスタにクローニングするには、 JSON 入力の「 clusterId 」パラメータを環境に応じて更新する必要があります。

1.クローンを作成するアプリケーションを選択します

ワークフローを実行 "アプリを表示します" をクリックし、クローニングするアプリケーションを選択します。アプリケーションのクローニングに使用される REST 呼び出しには、いくつかのリソース値が必要です。

2. 使用するバックアップを選択します

ワークフローを実行 "バックアップをリスト表示します" 使用するバックアップを選択します。

3. アプリを複製します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
投稿（ Post ）	/accounts / ｛account_id｝ /k8s/v2/qpps

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
JSON	ボディ（ Body ）	はい。	クローニングされたアプリケーションのパラメーターを提供します。以下の例を参照してください。

JSON の入力例

```
{
  "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"
}
```

curl の例：バックアップからアプリケーションをクローニングします

```
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
```

バックアップからアプリケーションをリストアする

アプリケーションをリストアするには、バックアップから新しいアプリケーションを作成します。

1.復元するアプリを選択します

ワークフローを実行 "アプリを表示します" をクリックし、クローニングするアプリケーションを選択します。アプリケーションのリストアに使用するREST呼び出しには、いくつかのリソース値が必要です。

2. 使用するバックアップを選択します

ワークフローを実行 "バックアップをリスト表示します" 使用するバックアップを選択します。

3. アプリを復元します

次の REST API 呼び出しを実行します。バックアップ（以下を参照）または Snapshot の ID を指定する必要があります。

HTTP メソッド	パス
PUT	/accounts / {account_id} /k8s/v2/apps/ {app_id}

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
JSON	ボディ（ Body ）	はい。	クローニングされたアプリケーションのパラメーターを提供します。以下の例を参照してください。

JSON の入力例

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

curl の例：バックアップからアプリを所定の場所にリストアします

```
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
```

ネームスペース

ネームスペースを表示します

使用可能なネームスペースをリストできます。

1.名前空間を一覧表示します

ネームスペースを表示するには、次のREST API呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts/{account_id}/topology/v1/Namespaces

curlの例：すべてのネームスペースのすべてのデータを返します

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

cURLの例：すべてのネームスペースについて、名前、状態、およびクラスタ**ID**を返します

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

JSON 出力例

```
{
    "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-clone1",
            "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": {}
}
```


サポート

通知を一覧表示します

特定のアストラアカウントの通知をリストできます。この処理は、システムアクティビティの監視や問題のデバッグの一環として実行できます。

1. 通知を一覧表示します

次の REST API 呼び出しを実行します。

HTTP メソッド	パス
取得	/accounts / {account_id} /core/v1/notifications

追加の入力パラメータ

すべての REST API 呼び出しに共通するパラメータに加えて、この手順の curl の例では次のパラメータも使用されます。

パラメータ	を入力します	必須	説明
フィルタ	クエリ	いいえ	必要に応じて、応答で返す通知をフィルタリングします。
含める	クエリ	いいえ	必要に応じて、応答で返す値を選択します。

curl の例：すべての通知を返します

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

curl の例：重大度が **WARNING** の通知について概要を返します

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

JSON 出力例

```
{
  "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": {}
}
```

失敗したアプリを削除します

バックアップまたはスナップショットが失敗した場合、管理アプリを削除できないことがあります。この場合、以下に説明するワークフローを使用して、アプリケーションを手動で削除できます。

1.削除するアプリを選択します

ワークフローを実行 "アプリを表示します" をクリックし、削除するアプリケーションを選択します。

2. アプリケーションの既存のバックアップを一覧表示します

ワークフローを実行 "バックアップをリスト表示します"。

3. すべてのバックアップを削除します

ワークフローを実行して、すべてのアプリケーションバックアップを削除します "バックアップを削除します" リスト内のバックアップごとに、

4. アプリケーションの既存のスナップショットを一覧表示します

ワークフローを実行 "Snapshot を一覧表示します"。

5. すべてのスナップショットを削除します

ワークフローを実行 "Snapshot を削除します" リスト内の各 Snapshot から削除します。

6. アプリケーションを削除します

ワークフローを実行 "アプリの管理を解除します" アプリケーションを削除します。

Python を使用する

NetApp Astra Control Python SDK

NetApp Astra Control Python SDK は、 Astra Control の導入を自動化するために使用できるオープンソースパッケージです。また、このパッケージは、独自の自動化プラットフォームを作成する際に、おそらく Astra Control REST API について学ぶ際の貴重な資料となります。

簡単にするために、このページの以降の部分では、 NetApp Astra Control Python SDK を * SDK と呼びます。

関連する 2 つのソフトウェアツール

SDK には、 Astra Control REST API にアクセスするときに異なる抽象化レベルで動作する 2 つの異なる関連ツールが含まれています。

Astra SDK

Astra SDK は、コアプラットフォーム機能を提供します。基盤となる REST API 呼び出しを抽象化する一連の Python クラスが含まれています。このクラスは、アプリケーション、バックアップ、 Snapshot 、クラスタなど、さまざまな Astra Control リソースに対する管理操作をサポートしています。

Astra SDK はパッケージの一部であり、単一の「 astrasdk.py 」ファイルで提供されています。このファイルを環境にインポートし、クラスを直接使用できます。

NetApp Astra Control Python SDK * （または SDK のみ）は、パッケージ全体の名前です。**Astra SDK** は、単一ファイル「 astrasdk.py 」の中核的な Python クラスを指します。

Toolkit スクリプト

Astra SDK ファイルに加えて 'toolkit.py スクリプトも利用できますこのスクリプトは、 Python 関数として内部的に定義されている個別の管理アクションにアクセスできるようにすることで、抽象化のレベルを高めて動作します。このスクリプトは、 Astra SDK をインポートし、必要に応じてクラスに呼び出します。

にアクセスする方法

SDK には、次の方法でアクセスできます。

Python パッケージ

SDK は、から入手できます "Python パッケージインデックス" 名前* actoolkit *。パッケージにはバージョン番号が割り当てられており、必要に応じて更新が続行されます。パッケージを環境にインストールするには、 * PIP * パッケージ管理ユーティリティを使用する必要があります。

インストールが完了したら、スクリプトに「import astraSDK」を配置することで、astraSDK.pyクラスを利用できます。また'actoolkit'は'コマンドプロンプトから直接呼び出すことができますこれは'toolkit.py (actoolkit list clusters'は'./toolkit.py list clusters'と同じです)と同じです

を参照してください "PyPi ： NetApp Astra Control Python SDK" を参照してください。

GitHub ソースコード

SDK ソースコードは GitHub からも入手できます。リポジトリには次のものが含まれます。

- `astrasdk.py (Python クラスを含む Astra SDK)
- `toolkit.py (より高度な関数ベースのスクリプト)
- インストール要件と手順の詳細
- インストールスクリプト
- その他のドキュメント

のクローンを作成できます "GitHub ： NetApp / NetApp-Astra - ツールキット" ローカル環境へのリポジトリ。

インストールと基本的な要件

パッケージのインストールおよび使用準備の一環として、いくつかのオプションと要件を考慮する必要があります。

インストールオプションの概要

次のいずれかの方法で SDK をインストールできます。

- 準備したを使用します "Docker：Astra -ツールキット" イメージ(image)は'actoolkit'を含む'必要な依存関係をすべてインストールしています
- Pipを使用して'PyPiのactoolkit'パッケージをPython環境にインストールします
- GitHubリポジトリのクローンを作成し、Pythonクライアントコードからアクセスできるように、2つのコアPythonファイルをコピー/変更します

詳細については、 PyPi および GitHub のページを参照してください。

Astra Control 環境の要件

Astra SDK の Python クラスを直接使用する場合も、「 toolkit.py 」スクリプトの関数を使用する場合も、最終的には Astra Control 配置で REST API にアクセスすることになります。そのため、 API トークンを持つ Astra アカウントが必要になります。を参照してください "作業を開始する前に" 詳細については、このドキュメントの「 * はじめに * 」セクションの他のページを参照してください。

NetApp Astra Control Python SDK の要件

SDK には、ローカル Python 環境に関連するいくつかの前提条件があります。たとえば、Python 3.8以降を使用する必要があります。また、必要な Python パッケージもいくつかあります。詳細については、 GitHub リポジトリページまたは PyPI パッケージページを参照してください。

役立つリソースの概要

開始するために必要なリソースをいくつかご紹介します。

- "PyPi ： NetApp Astra Control Python SDK"
- "GitHub ： NetApp / NetApp-Astra - ツールキット"
- "Docker：Astra -ツールキット"

ネイティブ Python

作業を開始する前に

Pythonは、データセンター自動化のための一般的な開発言語です。Python のネイティブ機能をいくつかの共通パッケージとともに使用する前に、環境と必要な入力ファイルを準備する必要があります。

ネットアップは、 Python を使用して Astra Control REST API に直接アクセスするだけでなく、 API を抽象化して複雑さを排除するツールキットパッケージも提供しています。を参照してください "NetApp Astra Control Python SDK" を参照してください。

環境を準備

以下に、 Python スクリプトを実行するための基本的な設定要件を示します。

Python 3.

最新バージョンの Python 3 がインストールされている必要があります。

追加ライブラリ

*Requests * および *ullib3 * ライブラリがインストールされている必要があります。環境に応じて、 pip などの Python 管理ツールを使用できます。

ネットワークアクセス

スクリプトを実行するワークステーションは、ネットワークにアクセスし、 Astra Control にアクセスできる必要があります。Astra Control Service を使用する場合は、インターネットに接続し、 https://astra.netapp.io` でサービスに接続できる必要があります。

ID 情報

アカウント ID と API トークンを持つ有効な Astra アカウントが必要です。を参照してください "API トークンを取得します" を参照してください。

JSON 入力ファイルを作成します

Python スクリプトは、 JSON 入力ファイルに含まれている設定情報に依存します。サンプルファイルは以下のとおりです。

環境に応じて、サンプルを更新する必要があります。

ID 情報

次のファイルに、 API トークンと Astra アカウントが含まれています。このファイルは '-i (または --identity') CLI パラメータを使用して Python スクリプトに渡す必要があります

```
{
  "api_token": "kH4CA_uVIa8q9UuPzhJaAHaGlaR7-no901DkkrVjIXk=",
  "account_id": "5131dfdf-03a4-5218-ad4b-fe84442b9786"
}
```

アプリを表示します

次のスクリプトを使用して、Astraアカウントのアプリケーションを一覧表示できます。

を参照してください "作業を開始する前に" 必要な JSON 入力ファイルの例を次に示します。

```
#!/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)
```

API リファレンス

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 24.02 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 • example: {{.Account}}

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: • "application/astra-asup"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0"
upload	string	True	JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle.
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: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
metadata	type_astra_metadata	False	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.

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	Media type of the resource. Defined values are: • "application/astra-asup"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state.
creationStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty. • Minimum items: 0

Name	Type	Required	Description
upload	string	True	JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle.

Name	Type	Required	Description
uploadState	string	False	JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are: • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "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. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state.

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
triggerType	string	True	JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are: • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.
dataWindowStart	string	True	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: • Conforms to the ISO-8601 Date Time Schema

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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	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.

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[type_astra_label]	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	additionalDetails	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 • 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"

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: asup_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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[type_astra_label]	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: • "application/astra-asup"

Name	Type	Required	Description
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
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: • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state.

Name	Type	Required	Description
creationStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty. • Minimum items: 0
upload	string	True	JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle.

Name	Type	Required	Description
uploadState	string	False	JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are: • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "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. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state.

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
triggerType	string	True	JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are: • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.
dataWindowStart	string	True	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: • Conforms to the ISO-8601 Date Time Schema

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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	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.

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

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 • example: {{.Account}}
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: • "application/astra-asup"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state.
creationStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty. • Minimum items: 0

Name	Type	Required	Description
upload	string	True	JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle.

Name	Type	Required	Description
uploadState	string	False	JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are: • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "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. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state.

Name	Type	Required	Description
uploadStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
triggerType	string	True	JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are: • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule.
dataWindowStart	string	True	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: • Conforms to the ISO-8601 Date Time Schema

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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	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.

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	additionalDetails	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[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

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: • "application/astra-account"
version	string	True	Version of the resource. Defined values are: • "1.0"
name	string	True	JSON string containing a name for the account. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	Media type of the resource. Defined values are: • "application/astra-account"

Name	Type	Required	Description
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	string	True	JSON string containing a name for the account. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
state	string	True	JSON string containing a value indicating the operational state of the account. Defined values are: • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue

Name	Type	Required	Description
isEnabled	string	True	JSON string indicating the account is enabled. Defined values are: • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account
enabledTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema
accountContact	accountContact	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	type_astra_metadata_update	True	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.

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: • Minimum length: 2 • Maximum length: 2

Name	Type	Required	Description
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 31
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
lastName	string	True	JSON string containing a user specified long-form last name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
email	string	True	JSON strings containing a user specified email address. Defined values are: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 31
postalAddress	postalAddress	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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: account_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
lastName	string	True	JSON string containing a user specified long-form last name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
email	string	True	JSON strings containing a user specified email address. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 31
postalAddress	postalAddress	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[type_astra_label]	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: • "application/astra-account"
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	string	True	JSON string containing a name for the account. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the account. Defined values are: • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue
isEnabled	string	True	JSON string indicating the account is enabled. Defined values are: • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account
enabledTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
accountContact	accountContact	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	type_astra_metadata_update	True	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.

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

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 • example: {{.Account}}

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: • "application/astra-account"
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	JSON string containing a name for the account. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
state	string	True	JSON string containing a value indicating the operational state of the account. Defined values are: • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue
isEnabled	string	True	JSON string indicating the account is enabled. Defined values are: • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account

Name	Type	Required	Description
enabledTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema
accountContact	accountContact	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	type_astra_metadata_update	True	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
lastName	string	True	JSON string containing a user specified long-form last name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
email	string	True	JSON strings containing a user specified email address. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 31
postalAddress	postalAddress	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[type_astra_label]	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 • example: {{.Account}}

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: • "application/astra-account"
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	string	False	JSON string containing a name for the account. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the account. Defined values are: • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue
isEnabled	string	False	JSON string indicating the account is enabled. Defined values are: • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account
enabledTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
accountContact	accountContact	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	type_astra_metadata_update	False	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	False	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	False	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	False	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
streetAddress1	string	False	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
lastName	string	False	JSON string containing a user specified long-form last name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
email	string	False	JSON strings containing a user specified email address. Defined values are: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 31
postalAddress	postalAddress	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[type_astra_label]	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 • example: {{.Account}}

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 • example: {{.Account}}
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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
name	string	True	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0

Name	Type	Required	Description
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
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[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	True	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.

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. • This string is internally validated against Astra /apiResources
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes

Name	Type	Required	Description
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

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	additionalDetails	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 • 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,state
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: app_2.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	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. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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.

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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app

Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	True	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.

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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	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. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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.

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 • 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

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	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	False	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	False	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	False	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.

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. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	False	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	False	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	False	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	False	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	False	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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 • example: {{.Account}}

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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"

Name	Type	Required	Description
name	string	True	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0

Name	Type	Required	Description
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
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[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	True	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.

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. • This string is internally validated against Astra /apiResources
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes

Name	Type	Required	Description
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

t
"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	additionalDetails	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 • 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,state
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: app_2.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	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. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

t
"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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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.

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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-app"
version	string	True	Version of the resource. Defined values are: • "2.0" • "2.1" • "2.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[namespaceScopedResources]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	True	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	True	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.

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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	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. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	True	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	True	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

t
"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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	True	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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.

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 • example: {{.Account}}
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). • 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	string	False	JSON string containing a name for the application. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema
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[namespaceScopedResources]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	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: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the application. Defined values are: • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	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.
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
protectionState	string	False	JSON string containing a value indicating the protection state of the application. Defined values are: • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume
protectionStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
appDetectedType	string	False	JSON string that uniquely represents the specific type of application that is detected. Defined values are: • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance
namespaces	array[string]	False	JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
namespaceMapping	array[namespaceMapping]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
storageClassMapping	array[storageClassMapping]	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: • Minimum Items: 0
clusterName	string	False	JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.
clusterID	string	False	JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
sourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
sourceClusterName	string	False	JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.

Name	Type	Required	Description
sourceClusterID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
backupID	string	False	JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. 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. 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 Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. 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. 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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicationSourceAppID	string	False	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: • Conforms to the Astra Identifier Schema
restoreFilter	restoreFilter	False	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.
metadata	type_astra_metadata_update	False	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.

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. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

clusterScopedResources

Name	Type	Required	Description
GVK	GVK	False	JSON object containing a Kubernetes group/version/kind. • This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
labelSelectors	array[string]	False	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. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	JSON string containing the name of a namespace in which the application is defined. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

t
"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	additionalDetails	False	

namespaceMapping

Name	Type	Required	Description
source	string	False	JSON string containing the name of the namespace on the source cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema
destination	string	False	JSON string containing the name of the namespace on the destination cluster. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

storageClassMapping

Name	Type	Required	Description
source	string	False	JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes
destination	string	False	JSON string containing the name of the destination storage class. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

GVKN

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources

Name	Type	Required	Description
version	string	False	JSON string containing a version identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. • This string is internally validated against Astra /apiResources
namespaces	array[string]	False	JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
names	array[string]	False	JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are: • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
labelSelectors	array[string]	False	JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples: • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement

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 • example: {{.Account}}

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: • "application/astra-appMirror"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	Media type of the resource. Defined values are: • "application/astra-appMirror"

Name	Type	Required	Description
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
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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 AppMirror relationship is not protecting the app
data yet because the relationship is in the process of being
established."
    }
  ],
  "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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	

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	additionalDetails	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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: appMirror_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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-aee85be2c2bb",
      "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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[type_astra_label]	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: • "application/astra-appMirror"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-appMirror"
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
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
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: • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[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 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 • example: {{.Account}}
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: • "application/astra-appMirror"
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
sourceAppID	string	False	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
sourceClusterID	string	False	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: • Conforms to the Astra Identifier Schema
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	False	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: • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	False	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	False	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	False	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
metadata	type_astra_metadata_update	False	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.

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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[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 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 • example: {{.Account}}
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 • example: {{.Account}}
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: • "application/astra-appMirror"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	Media type of the resource. Defined values are: • "application/astra-appMirror"

Name	Type	Required	Description
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
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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 AppMirror relationship is not protecting the app
data yet because the relationship is in the process of being
established."
    }
  ],
  "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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	

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	additionalDetails	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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: appMirror_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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-aee85be2c2bb",
      "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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[type_astra_label]	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: • "application/astra-appMirror"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-appMirror"
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
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
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: • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	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: • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[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 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 • example: {{.Account}}
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: • "application/astra-appMirror"
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
sourceAppID	string	False	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: • Conforms to the Astra Identifier Schema
sourceClusterID	string	False	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: • Conforms to the Astra Identifier Schema
destinationAppID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	False	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: • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	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: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	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. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are: • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	False	The state of the relationship. Defined values are: • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions. The following state transitions are possible for this resource: • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	False	The desired state for the relationship. At creation, the only valid value is "established". Defined values are: • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	States that can be requested in a given state. The following states can be requested in each defined state: • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	State of the current or most recent snapshot transfer. Defined values are: • "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. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0

Name	Type	Required	Description
healthState	string	False	Health state of the resource. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	False	Permitted state transitions from a given defined state. The following state transitions are possible for this resource: • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
metadata	type_astra_metadata_update	False	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.

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: • Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • "source" • "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: • Conforms to the Astra Identifier Schema
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: • Minimum length: 1 • Maximum length: 255
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: • "source" • "destination"

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	additionalDetails	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[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 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 • example: {{.Account}}
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: appAsset_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

appAsset_1.1_get_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
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
GVK	GVK	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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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-69c6fcf864-2wx6l",
  "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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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,assetName

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: appAsset_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

appAsset_1.1_get_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
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
GVK	GVK	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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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-69c6fcf864-2wx6l",
  "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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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,assetName

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: appAsset_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

appAsset_1.1_get_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
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
GVK	GVK	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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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-69c6fcf864-2wx6l",
  "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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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,assetName

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: appAsset_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

appAsset_1.1_get_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
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
GVK	GVK	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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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-69c6fcf864-2wx6l",
  "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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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 • example: {{.Account}}
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. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: assetType,assetName

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: appAsset_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

appAsset_1.1_get_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
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
GVK	GVK	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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 254
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the Astra Identifier Schema
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. • Minimum items: 0

Name	Type	Required	Description
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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-69c6fcf864-2wx6l",
  "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: • Minimum length: 1 • Maximum length: 254
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: • Minimum length: 1 • Maximum length: 254

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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

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 • 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,state

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: appBackup_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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[type_astra_label]	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: • "application/astra-appBackup"

Name	Type	Required	Description
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	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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema
scheduleID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the backup. Defined values are: • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined • "deleting" - The application backup is scheduled for deletion

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful

Name	Type	Required	Description
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
backupCreationTimestamp	string	False	JSON string containing a timestamp indicating when the backup was taken. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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".

Name	Type	Required	Description
metadata	type_astra_metadata	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-appBackup"
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 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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • Conforms to the Astra Identifier Schema
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
scheduleID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the backup. Defined values are: • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined • "deleting" - The application backup is scheduled for deletion

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
backupCreationTimestamp	string	False	JSON string containing a timestamp indicating when the backup was taken. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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	type_astra_metadata	True	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.

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	additionalDetails	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[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 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 • example: {{.Account}}
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 • example: {{.Account}}
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	Media type of the resource. Defined values are: • "application/astra-appBackup"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
name	string	False	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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
bucketID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata	False	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.

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: • "application/astra-appBackup"
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	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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
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: • Conforms to the Astra Identifier Schema
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema
scheduleID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the backup. Defined values are: • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined • "deleting" - The application backup is scheduled for deletion

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
backupCreationTimestamp	string	False	JSON string containing a timestamp indicating when the backup was taken. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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	type_astra_metadata	True	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.

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[type_astra_label]	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	additionalDetails	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 • 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: id,name,state

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: appBackup_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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[type_astra_label]	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: • "application/astra-appBackup"

Name	Type	Required	Description
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	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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema
scheduleID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the backup. Defined values are: • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined • "deleting" - The application backup is scheduled for deletion

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful

Name	Type	Required	Description
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
backupCreationTimestamp	string	False	JSON string containing a timestamp indicating when the backup was taken. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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".

Name	Type	Required	Description
metadata	type_astra_metadata	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-appBackup"
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 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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
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: • Conforms to the Astra Identifier Schema
snapshotID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
scheduleID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the backup. Defined values are: • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined • "deleting" - The application backup is scheduled for deletion

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
backupCreationTimestamp	string	False	JSON string containing a timestamp indicating when the backup was taken. Defined values are: • Conforms to the ISO-8601 Date Time Schema
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	type_astra_metadata	True	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.

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	additionalDetails	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[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 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 • example: {{.Account}}
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 • example: {{.Account}}

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: • "application/astra-appSnap"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
bucketID	string	False	JSON string containing an optional bucket ID that indicates where the snapshot will be stored on create. If not specified, a default bucket on the cluster is used. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used. If the cloud default bucket is not available, an error will be returned on create. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata	False	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.

Example request

```
{
  "type": "application/astra-appSnap",
  "version": "1.3",
  "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	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" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
bucketID	string	False	JSON string containing an optional bucket ID that indicates where the snapshot will be stored on create. If not specified, a default bucket on the cluster is used. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used. If the cloud default bucket is not available, an error will be returned on create. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
snapshotAppAsset	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the snapshot. Defined values are: • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "deleting" - The application snapshot is being deleted • "unknown" - The application snapshot state cannot be determined
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
metadata	type_astra_metadata	True	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.

Example response


```
{
  "type": "application/astra-appSnap",
  "version": "1.3",
  "id": "c2cc5c22-ed0e-5c2b-8b7e-0fb81727f617",
  "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	

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[type_astra_label]	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	additionalDetails	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 • 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: id,name,state

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: appSnap_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-appSnaps",
  "version": "1.3",
  "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	additionalDetails	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[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

appSnap_1.3_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-appSnap"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema

Name	Type	Required	Description
bucketID	string	False	JSON string containing an optional bucket ID that indicates where the snapshot will be stored on create. If not specified, a default bucket on the cluster is used. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used. If the cloud default bucket is not available, an error will be returned on create. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
snapshotAppAsset	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the snapshot. Defined values are: • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "deleting" - The application snapshot is being deleted • "unknown" - The application snapshot state cannot be determined

Name	Type	Required	Description
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful

Name	Type	Required	Description
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
metadata	type_astra_metadata	True	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.

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 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" • "1.3"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema
bucketID	string	False	JSON string containing an optional bucket ID that indicates where the snapshot will be stored on create. If not specified, a default bucket on the cluster is used. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used. If the cloud default bucket is not available, an error will be returned on create. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
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: • Conforms to the Astra Identifier Schema
snapshotAppAsset	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the snapshot. Defined values are: • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "deleting" - The application snapshot is being deleted • "unknown" - The application snapshot state cannot be determined
stateUnready	array[string]	True	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". Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
stateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
hookState	string	False	JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are: • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful
hookStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0
metadata	type_astra_metadata	True	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.

Example response


```
{
  "type": "application/astra-appSnap",
  "version": "1.3",
  "id": "c2cc5c22-ed0e-5c2b-8b7e-0fb81727f617",
  "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"
}
```


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	additionalDetails	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[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 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 • 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: 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 • example: {{.Account}}

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: • "application/astra-bucket"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: • Minimum length: 1 • Maximum length: 256

Name	Type	Required	Description
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: • Conforms to the Astra Identifier Schema
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws"
bucketParameters	bucketParameters	True	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-bucket"
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 a user-assigned name for the bucket. Defined values are: • Minimum length: 1 • Maximum length: 256
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: • Conforms to the Astra Identifier Schema
state	string	True	JSON string containing a value indicating the operational state of the bucket. Defined values are: • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined
stateDetails	array[type_astra_stateDetail]	True	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. • Minimum items: 0

Name	Type	Required	Description
retentionTime	number	False	Number of seconds representing the time a file on this bucket will be retained for. Defined values are: • -1 (Unsupported bucket) • 0 (No known retention policy) • 0 (Known retention policy)
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws"
bucketParameters	bucketParameters	True	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
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aaea97",
  "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: • Minimum length: 0 • Maximum length: 1023
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: • Minimum length: 0 • Maximum length: 63

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[type_astra_label]	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	additionalDetails	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: bucket_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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: • Minimum length: 0 • Maximum length: 1023
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: • Minimum length: 0 • Maximum length: 63

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: • "application/astra-bucket"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-assigned name for the bucket. Defined values are: • Minimum length: 1 • Maximum length: 256
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: • Conforms to the Astra Identifier Schema
state	string	True	JSON string containing a value indicating the operational state of the bucket. Defined values are: • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined

Name	Type	Required	Description
stateDetails	array[type_astra_stateDetail]	True	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. • Minimum items: 0
retentionTime	number	False	Number of seconds representing the time a file on this bucket will be retained for. Defined values are: • -1 (Unsupported bucket) • 0 (No known retention policy) • 0 (Known retention policy)
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws"
bucketParameters	bucketParameters	True	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
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-bucket"
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 a user-assigned name for the bucket. Defined values are: • Minimum length: 1 • Maximum length: 256
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: • Conforms to the Astra Identifier Schema
state	string	True	JSON string containing a value indicating the operational state of the bucket. Defined values are: • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined
stateDetails	array[type_astra_stateDetail]	True	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. • Minimum items: 0

Name	Type	Required	Description
retentionTime	number	False	Number of seconds representing the time a file on this bucket will be retained for. Defined values are: • -1 (Unsupported bucket) • 0 (No known retention policy) • 0 (Known retention policy)
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws"
bucketParameters	bucketParameters	True	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
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aaea97",
  "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	additionalDetails	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: • Minimum length: 0 • Maximum length: 1023
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: • Minimum length: 0 • Maximum length: 63

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 • example: {{.Account}}
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: • "application/astra-bucket"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: • Minimum length: 1 • Maximum length: 256

Name	Type	Required	Description
credentialID	string	False	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: • Conforms to the Astra Identifier Schema
state	string	False	JSON string containing a value indicating the operational state of the bucket. Defined values are: • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined
stateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
provider	string	False	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws"
bucketParameters	bucketParameters	False	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.
metadata	type_astra_metadata_update	False	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.

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	additionalDetails	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: • Minimum length: 0 • Maximum length: 1023
bucketName	string	False	JSON string containing the name of the S3 bucket. Defined values are: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63

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: • Minimum length: 0 • Maximum length: 63
bucketName	string	False	JSON string containing the name of the backing Azure blob name. Defined values are: • Minimum length: 0 • Maximum length: 63

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 • example: {{.Account}}
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 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 • example: {{.Account}}

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: • "application/astra-certificate"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
isSelfSigned	string	False	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • 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: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t"
}
```

Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-certificate"

Name	Type	Required	Description
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
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511

Name	Type	Required	Description
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • 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: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.

Name	Type	Required	Description
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.
trustStateTransitions	array[type_astra_stateTransition]	True	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.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetail]	True	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. • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbed4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t",
  "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[type_astra_label]	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	additionalDetails	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 • example: {{.Account}}
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></continue>

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'" • example: certUse%20eq%20’rootCA'
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,cn,isSelfSigned

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: certificate_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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[type_astra_label]	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: • "application/astra-certificate"
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
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • 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: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.

Name	Type	Required	Description
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.
trustStateTransitions	array[type_astra_stateTransition]	True	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.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetail]	True	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. • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-certificate"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511

Name	Type	Required	Description
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • 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: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.

Name	Type	Required	Description
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.
trustStateTransitions	array[type_astra_stateTransition]	True	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.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetail]	True	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. • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbed4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
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	additionalDetails	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[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 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 • example: {{.Account}}
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: • "application/astra-certificate"
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
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.

Name	Type	Required	Description
cert	string	False	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	False	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511
expiryTimestamp	string	False	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
isSelfSigned	string	False	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • 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: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.
trustState	string	False	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.

Name	Type	Required	Description
trustStateTransitions	array[type_astra_stateTransition]	False	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.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.
trustStateDetails	array[type_astra_stateDetail]	False	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. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	additionalDetails	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[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 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 • example: {{.Account}}
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 • example: {{.Account}}

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: • "application/astra-cloud"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
name	string	True	JSON string containing the name of the cloud. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
cloudType	string	True	JSON string containing a value indicating the type of cloud. Defined values are: • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed
credentialID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
defaultBucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-cloud"
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	string	True	JSON string containing the name of the cloud. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cloud. Defined values are: • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
cloudType	string	True	JSON string containing a value indicating the type of cloud. Defined values are: • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed
credentialID	string	False	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: • Conforms to the Astra Identifier Schema
defaultBucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • 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,state
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: cloud_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-cloud"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing the name of the cloud. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cloud. Defined values are: • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
cloudType	string	True	JSON string containing a value indicating the type of cloud. Defined values are: • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed
credentialID	string	False	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: • Conforms to the Astra Identifier Schema
defaultBucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-cloud"
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
name	string	True	JSON string containing the name of the cloud. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
state	string	True	JSON string containing a value indicating the operational state of the cloud. Defined values are: • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined

Name	Type	Required	Description
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127
cloudType	string	True	JSON string containing a value indicating the type of cloud. Defined values are: • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed
credentialID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
defaultBucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-cloud"
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	JSON string containing the name of the cloud. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
state	string	False	JSON string containing a value indicating the operational state of the cloud. Defined values are: • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined

Name	Type	Required	Description
stateUnready	array[string]	False	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: • Minimum length: 1 • Maximum length: 127
cloudType	string	False	JSON string containing a value indicating the type of cloud. Defined values are: • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed
credentialID	string	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
defaultBucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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 • example: {{.Account}}
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: • "application/astra-cluster"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes

Name	Type	Required	Description
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.7",
  "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: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
managedStateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-cluster",
  "version": "1.7",
  "id": "dd95ce34-55ce-5f74-bb49-2f734fe5da30",
  "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[type_astra_label]	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	additionalDetails	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 • example: {{.Account}}
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" • example: id,name,managedState

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"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: cluster_1.7_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-clusters",
  "version": "1.7",
  "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	additionalDetails	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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

cluster_1.7_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.

Name	Type	Required	Description
managedStateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
managedStateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-cluster",
  "version": "1.7",
  "id": "dd95ce34-55ce-5f74-bb49-2f734fe5da30",
  "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	additionalDetails	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[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 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 • 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

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: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	False	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	False	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	False	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
managedStateUnready	array[string]	False	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	False	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	False	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.7"
}
```

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	additionalDetails	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[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 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 • 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,managedState

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"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: cluster_1.7_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-clusters",
  "version": "1.7",
  "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	additionalDetails	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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

cluster_1.7_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.

Name	Type	Required	Description
managedStateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-cluster"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
managedStateUnready	array[string]	True	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-cluster",
  "version": "1.7",
  "id": "dd95ce34-55ce-5f74-bb49-2f734fe5da30",
  "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	additionalDetails	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[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 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 • example: {{.Account}}
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: • "application/astra-cluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined
stateUnready	array[string]	False	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	False	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	False	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the ability of the cluster to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are: • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
managedStateUnready	array[string]	False	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. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	False	JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
cloudID	string	False	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with the connectorV2 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.
location	string	False	JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone
privateRouteID	string	False	JSON string containing the location ID for private clusters. • Minimum length: 1 • Maximum length: 255
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.
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.7"
}
```

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	additionalDetails	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[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 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 • example: {{.Account}}
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	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: name,instanceType
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: clusterNode_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

clusterNode_1.0_get_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	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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 • 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: name,instanceType

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: clusterNode_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

clusterNode_1.0_get_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	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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 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 • 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: name,instanceType

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: clusterNode_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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	

clusterNode_1.0_get_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	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
labels	array[labels]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. • Minimum items: 0
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
internalIP	string	True	JSON string containing a value that indicates the external IP address for the node. Defined values are: • Minimum length: 1 • Maximum length: 63
zone	string	True	JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: • Minimum length: 1 • Maximum length: 254
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: • Minimum length: 1 • Maximum length: 254
numCpus	string	True	JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254
memory	string	True	JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are: • Minimum length: 1 • Maximum length: 254

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the node. Defined values are: • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([\S.]{1,253}\/)?([a-z0-9A-Z_.-]){1,63}$"
value	string	True	JSON string containing the label value Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^([a-z0-9A-Z_.-]){1,63}$"

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

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 • example: {{.Account}}

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: • "application/astra-credential"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
keyType	string	False	JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints: • 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. • 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. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • 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. • 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. Defined values are: • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.
			Extended validation is performed as follows:

Name	Type	Required	Description
keyStore	keyStore	True	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.
valid	string	False	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema 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 the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "myCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

• "certificate" - The credential is a PEM-

• 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: • "application/astra-credential"
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	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
keyType	string	False	JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints: • 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. • 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. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • 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. • 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. Defined values are: • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType. Extended validation is performed as follows:

Name	Type	Required	Description
valid	string	True	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema

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 the name does not

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	

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

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[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 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 • example: {{.Account}}
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></continue>

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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

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: credential_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
keyType	string	False	JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints: • 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. • 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. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • 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. • 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. Defined values are: "generic" - The credential is a generic collection of data. This is

Name	Type	Required	Description
valid	string	True	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
			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	type_astra_metadata_update	True	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.

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

arbitrary string.

• "kubeconfig" - The credential is a

• The kubeconfig file must only describe a single cluster.

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 • example: {{.Account}}
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: • "application/astra-credential"
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
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: • Minimum length: 1 • Maximum length: 127

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	JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints: • 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. • 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. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • 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. • 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. Defined values are: • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.
			Extended validation is performed as follows:

Name	Type	Required	Description
valid	string	True	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema

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 the name does not

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	

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 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 • example: {{.Account}}
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: • "application/astra-credential"
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	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
keyType	string	False	JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints: • 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. • 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. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • 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. • 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. Defined values are: • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.
			Extended validation is performed as follows:

Name	Type	Required	Description
keyStore	keyStore	True	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.
valid	string	False	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema 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 the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "oldCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

• "certificate" - The credential is a PEM-

• 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[type_astra_label]	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 • 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: product,entitlementType,entitlementValue,allocation
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: entitlement_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-entitlement"
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
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: • Conforms to the Astra Identifier Schema
sourceSubscription	string	False	JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are: • Conforms to the Astra Identifier Schema
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: • "application/astra-entitlement"
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
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	JSON string containing the license object ID that the entitlement is sourced from. Defined values are: • Conforms to the Astra Identifier Schema
sourceSubscription	string	False	JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are: • Conforms to the Astra Identifier Schema
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • 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,summary
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: event_1.4_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "true" - The banner is dismissible • "false" - The banner is not dismissible

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: • "application/astra-event"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4"
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 a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^[a-z])(\.([a-z])+$"
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO-8601 Date Time Schema
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*$"

Name	Type	Required	Description
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema
additionalResourceIDs	array[string]	True	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. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra-([a-zA-Z])+$"

Name	Type	Required	Description
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
severity	string	True	JSON string containing one of the following values that indicate the severity of an event. Defined values are: • "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. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt. • "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.

Name	Type	Required	Description
class	string	True	JSON string containing one of the following values that indicate the class of the event. Defined values are: • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue.
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095

Name	Type	Required	Description
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
destinations	array[string]	False	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: • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event.
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are: • Minimum length: 3 • Maximum length: 4095
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are: • Minimum length: 1 • Maximum length: 1023

Name	Type	Required	Description
resourceMethod	string	False	JSON string containing the HTTP method invoked. Only included for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1-5][0-9]{2}$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are: • Conforms to the Astra Identifier Schema

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: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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

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 • example: {{.Account}}
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: • "application/astra-event"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^[a-z])(\.([a-z])+$"
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: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*$"
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema
additionalResourceIDs	array[string]	True	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. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra-([a-zA-Z])+$"
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
severity	string	True	JSON string containing one of the following values that indicate the severity of an event. Defined values are: • "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. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt. • "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.

Name	Type	Required	Description
class	string	True	JSON string containing one of the following values that indicate the class of the event. Defined values are: • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue.
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023

Name	Type	Required	Description
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63
destinations	array[string]	False	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: • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event.

Name	Type	Required	Description
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are: • Minimum length: 3 • Maximum length: 4095
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are: • Minimum length: 1 • Maximum length: 1023
resourceMethod	string	False	JSON string containing the HTTP method invoked. Only included for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation

Name	Type	Required	Description
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1-5][0-9]{2}$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are: • Conforms to the Astra Identifier Schema
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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": [
    "84dfee99-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'.",
  "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: • "true" - The banner is dismissible • "false" - The banner is not dismissible

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 • example: {{.Account}}

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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.

Name	Type	Required	Description
matchingCriteria	array[matchingCriteria]	False	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: • Minimum items: 0 • Maximum items: 10
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".

Name	Type	Required	Description
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127
appID	string	True	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: • Conforms to the Astra Identifier Schema
enabled	string	False	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".

Name	Type	Required	Description
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.

Name	Type	Required	Description
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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: https://github.com/google/re2/wiki/Syntax

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	

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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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 • 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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: executionHook_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
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 a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.

Name	Type	Required	Description
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10

Name	Type	Required	Description
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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 • example: {{.Account}}
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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	False	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	False	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: • Minimum items: 0 • Maximum items: 10
action	string	False	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	False	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	False	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	False	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: https://github.com/google/re2/wiki/Syntax

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

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 • example: {{.Account}}
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 • example: {{.Account}}
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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.

Name	Type	Required	Description
matchingCriteria	array[matchingCriteria]	False	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: • Minimum items: 0 • Maximum items: 10
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".

Name	Type	Required	Description
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127
appID	string	True	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: • Conforms to the Astra Identifier Schema
enabled	string	False	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".

Name	Type	Required	Description
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.

Name	Type	Required	Description
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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: https://github.com/google/re2/wiki/Syntax

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	

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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: executionHook_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
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 a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.

Name	Type	Required	Description
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	True	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	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: • Minimum items: 0 • Maximum items: 10

Name	Type	Required	Description
matchingContainers	array[matchingContainers]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.
matchingImages	array[string]	False	JSON array of JSON strings for the matching container images. Defined values are: • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255
action	string	True	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	True	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	True	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	True	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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: https://github.com/google/re2/wiki/Syntax

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[type_k8s_label]	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 • 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

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: • "application/astra-executionHook"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources.
hookType	string	False	JSON string defining the hook type. Defined values are: • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.
matchingCriteria	array[matchingCriteria]	False	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: • Minimum items: 0 • Maximum items: 10
action	string	False	JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are: • "snapshot" • "backup" • "restore" • "failover"

Name	Type	Required	Description
stage	string	False	JSON string indicating the stage during the action that the hook will be executed. Defined values are: • "pre" - The execution hook will be run before the specified action. • "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".
hookSourceID	string	False	JSON string containing the hook source ID that is run through this execution hook. Defined values are: • Conforms to the Astra Identifier Schema
arguments	array[string]	False	JSON array of JSON strings for the arguments to the source. Defined values are: • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127

Name	Type	Required	Description
appID	string	False	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: • Conforms to the Astra Identifier Schema
enabled	string	False	JSON string that indicates if the execution hook is enabled. Defined values are: • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true".
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: https://github.com/google/re2/wiki/Syntax

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

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 • example: {{.Account}}
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: • "application/astra-executionHookOverride"
version	string	True	Version of the resource. Defined values are: • "1.0"
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".

Name	Type	Required	Description
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-executionHookOverride"
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
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".

Name	Type	Required	Description
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	True	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.

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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: executionHookOverride_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-executionHookOverride"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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

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: • "application/astra-executionHookOverride"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
executionHookID	string	False	JSON string containing the ID of an execution hook. Defined values are: • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".
enabled	string	False	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run
appID	string	False	JSON string containing the associated ID of the application with which the override is linked. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • 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

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 • 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"

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"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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: feature_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-feature"
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
name	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: • "true" - The feature flag is enabled. • "false" - The feature flag is disabled.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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: • "application/astra-feature"

Name	Type	Required	Description
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	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: • "true" - The feature flag is enabled. • "false" - The feature flag is disabled.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}

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: • "application/astra-group"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
name	string	False	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-group"
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	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048
metadata	type_astra_metadata_update	True	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.

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 • 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,authProvider, authID
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: group_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-group"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-group"
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
name	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	False	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	False	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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: • "application/astra-group"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
name	string	False	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-group"

Name	Type	Required	Description
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	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: id,authProvider, authID
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: group_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-group"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-group"
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
name	string	True	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	True	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	The name of the group resource. If not specified on create, the value will be set to • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048
authProvider	string	False	The authentication provider for the group resource. Defined values are: • "ldap"
authID	string	False	The Distinguished Name (DN) for an LDAP group. Defined values are: • Minimum length: 1 • Maximum length: 2048

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}

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: • "application/astra-hookSource"
version	string	True	Version of the resource. Defined values are: • "1.0"
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 The name is required to be unique within all hook source resources.
sourceType	string	True	JSON string defining the hook source type. Defined values are: • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.

Name	Type	Required	Description
source	string	True	JSON string containing the script to be run in base64 format. Defined values are: • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.
description	string	False	JSON string containing a user-specified description of the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-hookSource"
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	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 The name is required to be unique within all hook source resources.
private	string	True	JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are: • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API.
preloaded	string	True	JSON string that indicates whether the source was preloaded. Defined values are: • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only.

Name	Type	Required	Description
sourceType	string	True	JSON string defining the hook source type. Defined values are: • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.
source	string	False	JSON string containing the script to be run in base64 format. Defined values are: • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.
sourceMD5Checksum	string	True	JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are: • Defined regex is: "^([0-9a-fA-F]){32}$"
description	string	False	JSON string containing a user-specified description of the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: hookSource_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-hookSource"
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	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 The name is required to be unique within all hook source resources.
private	string	True	JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are: • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API.
preloaded	string	True	JSON string that indicates whether the source was preloaded. Defined values are: • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only.

Name	Type	Required	Description
sourceType	string	True	JSON string defining the hook source type. Defined values are: • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.
source	string	False	JSON string containing the script to be run in base64 format. Defined values are: • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.
sourceMD5Checksum	string	True	JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are: • Defined regex is: "^([0-9a-fA-F]){32}$"
description	string	False	JSON string containing a user-specified description of the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-hookSource"
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	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 The name is required to be unique within all hook source resources.
private	string	True	JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are: • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API.
preloaded	string	True	JSON string that indicates whether the source was preloaded. Defined values are: • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only.

Name	Type	Required	Description
sourceType	string	True	JSON string defining the hook source type. Defined values are: • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.
source	string	False	JSON string containing the script to be run in base64 format. Defined values are: • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.
sourceMD5Checksum	string	True	JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are: • Defined regex is: "^([0-9a-fA-F]){32}$"
description	string	False	JSON string containing a user-specified description of the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-hookSource"
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	JSON string containing a user-specified name for the resource. Defined values are: • Minimum length: 1 • Maximum length: 63 The name is required to be unique within all hook source resources.
private	string	False	JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are: • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API.
preloaded	string	False	JSON string that indicates whether the source was preloaded. Defined values are: • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only.

Name	Type	Required	Description
sourceType	string	False	JSON string defining the hook source type. Defined values are: • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.
source	string	False	JSON string containing the script to be run in base64 format. Defined values are: • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.
sourceMD5Checksum	string	False	JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are: • Defined regex is: "^([0-9a-fA-F]){32}$"
description	string	False	JSON string containing a user-specified description of the hook source. Defined values are: • Minimum length: 0 • Maximum length: 511

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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 • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource

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" • example: id,kind,apiVersion
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: apiResource_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-apiResource"
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
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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
kind	string	True	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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: • "application/astra-apiResource"
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
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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources

Name	Type	Required	Description
kind	string	True	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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • 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,cn,dn
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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></continue>

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-6eeffbf9e35d",
      "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: • "application/astra-ldapGroup"
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
cn	string	False	JSON string representing the LDAP group name. Defined values are: • Minimum length: 1 • Maximum length: 63
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: • Conforms to RFC 4514
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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

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 • example: {{.Account}}
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: • "application/astra-ldapGroup"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
cn	string	False	JSON string representing the LDAP group name. Defined values are: • Minimum length: 1 • Maximum length: 63
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: • Conforms to RFC 4514
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • 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,cn,dn
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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></continue>

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: • "application/astra-ldapUser"
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
email	string	False	JSON string representing the email of the LDAP user. Defined values are: • Minimum length: 3 • Maximum length: 63
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: • Minimum length: 1 • Maximum length: 63
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: • Minimum length: 1 • Maximum length: 63
cn	string	False	JSON string representing the LDAP group name. Defined values are: • Minimum length: 1 • Maximum length: 63
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: • Conforms to RFC 4514

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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: • "application/astra-ldapUser"
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
email	string	False	JSON string representing the email of the LDAP user. Defined values are: • Minimum length: 3 • Maximum length: 63

Name	Type	Required	Description
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: • Minimum length: 1 • Maximum length: 63
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: • Minimum length: 1 • Maximum length: 63
cn	string	False	JSON string representing the LDAP group name. Defined values are: • Minimum length: 1 • Maximum length: 63
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: • Conforms to RFC 4514
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}

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: • "application/astra-license"
version	string	True	Version of the resource. Defined values are: • "1.0"
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: • Conforms to the Astra Identifier Schema
licenseText	string	True	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: • Conforms to the base64 Encoded Data Schema
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-license"
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
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: • Conforms to the Astra Identifier Schema
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: • Minimum length: 1 • Maximum length: 63
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: • Conforms to the Astra Identifier Schema
isEvaluation	string	True	JSON string indicating whether the license is an evaluation license. Defined values are: • "true" • "false"

Name	Type	Required	Description
licenseProtocol	string	True	JSON string containing the license protocol extracted from the license. Defined values are: • String contents not validated by the schema
licenseText	string	True	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: • Conforms to the base64 Encoded Data Schema
validFromTimestamp	string	True	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	True	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
product	string	True	JSON string containing the product string extracted from the license. Defined values are: • String contents not validated by the schema
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: • String contents not validated by the schema
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: • String contents not validated by the schema
features	string	True	JSON string containing the package value extracted from the license. Defined values are: • String contents not validated by the schema
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[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: • 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.

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: • Conforms to the ISO-8601 Date Time Schema
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: • String contents not validated by the schema.
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: • String contents not validated by the schema
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: • String contents not validated by the schema

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 • 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,product
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: license_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Conforms to the ISO-8601 Date Time Schema
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: • String contents not validated by the schema.
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: • String contents not validated by the schema

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: • String contents not validated by the schema

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	

license_1.0_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-license"

Name	Type	Required	Description
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
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: • Conforms to the Astra Identifier Schema
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: • Conforms to the Astra Identifier Schema
isEvaluation	string	True	JSON string indicating whether the license is an evaluation license. Defined values are: • "true" • "false"
licenseProtocol	string	True	JSON string containing the license protocol extracted from the license. Defined values are: • String contents not validated by the schema
licenseText	string	True	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: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
validFromTimestamp	string	True	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	True	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
product	string	True	JSON string containing the product string extracted from the license. Defined values are: • String contents not validated by the schema
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: • String contents not validated by the schema
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: • String contents not validated by the schema

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: • String contents not validated by the schema
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: • 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.

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: • "application/astra-license"
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
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: • Conforms to the Astra Identifier Schema
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: • Conforms to the Astra Identifier Schema
isEvaluation	string	True	JSON string indicating whether the license is an evaluation license. Defined values are: • "true" • "false"
licenseProtocol	string	True	JSON string containing the license protocol extracted from the license. Defined values are: • String contents not validated by the schema
licenseText	string	True	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: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
validFromTimestamp	string	True	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	True	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
product	string	True	JSON string containing the product string extracted from the license. Defined values are: • String contents not validated by the schema
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: • String contents not validated by the schema
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: • String contents not validated by the schema

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: • String contents not validated by the schema
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: • 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.

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: • Conforms to the ISO-8601 Date Time Schema
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: • String contents not validated by the schema.
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: • String contents not validated by the schema

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: • String contents not validated by the schema

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 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	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
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: • Conforms to the Astra Identifier Schema
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: • Minimum length: 1 • Maximum length: 63
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
isEvaluation	string	False	JSON string indicating whether the license is an evaluation license. Defined values are: • "true" • "false"
licenseProtocol	string	False	JSON string containing the license protocol extracted from the license. Defined values are: • String contents not validated by the schema
licenseText	string	False	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: • Conforms to the base64 Encoded Data Schema
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
product	string	False	JSON string containing the product string extracted from the license. Defined values are: • String contents not validated by the schema
productVersion	string	False	JSON string containing the version string extracted from the license. Defined values are: • String contents not validated by the schema
productSN	string	False	JSON string containing the serial number string extracted from the license. Defined values are: • String contents not validated by the schema
features	string	False	JSON string containing the package value extracted from the license. Defined values are: • String contents not validated by the schema

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: • 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.

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: • Conforms to the ISO-8601 Date Time Schema
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: • Conforms to the ISO-8601 Date Time Schema
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: • String contents not validated by the schema.
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: • String contents not validated by the schema

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: • String contents not validated by the schema

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 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 • example: {{.Account}}
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 • example: {{.Account}}

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: • "application/astra-managedCluster"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster

Name	Type	Required	Description
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	type_astra_metadata_update	False	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.

Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "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: • "application/astra-managedCluster"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
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 a name for the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster’s state cannot be determined

Name	Type	Required	Description
restoreTargetSupported	string	False	JSON string containing a value indicating the managed cluster's ability to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.
snapshotSupported	string	False	JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are: • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	True	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum Items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	True	JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	True	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema
location	string	False	JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63
isMultizonal	string	True	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. • Minimum length: 1 • Maximum length: 255
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "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",
  "defaultBucketID": "a549b757-2be1-494f-aafa-4ee399ca3f00",
  "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	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 • 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,managedState

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"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: managedCluster_1.7_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-managedClusters",
  "version": "1.7",
  "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	additionalDetails	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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

managedCluster_1.7_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-managedCluster"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a name for the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster’s state cannot be determined
restoreTargetSupported	string	False	JSON string containing a value indicating the managed cluster’s ability to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.

Name	Type	Required	Description
snapshotSupported	string	False	JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are: • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	True	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum Items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	True	JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	True	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema
location	string	False	JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63
isMultizonal	string	True	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. • Minimum length: 1 • Maximum length: 255
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-managedCluster"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a name for the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster’s state cannot be determined
restoreTargetSupported	string	False	JSON string containing a value indicating the managed cluster’s ability to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.

Name	Type	Required	Description
snapshotSupported	string	False	JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are: • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	True	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	True	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum Items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	True	JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	True	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	True	JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	True	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.

Name	Type	Required	Description
cloudID	string	True	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema
location	string	False	JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63
isMultizonal	string	True	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. • Minimum length: 1 • Maximum length: 255
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	type_astra_metadata_update	True	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.

Example response


```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "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",
  "defaultBucketID": "a549b757-2be1-494f-aafa-4ee399ca3f00",
  "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	additionalDetails	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[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 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"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" • "1.6" • "1.7"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	False	JSON string containing a name for the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the cluster. Defined values are: • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster’s state cannot be determined
restoreTargetSupported	string	False	JSON string containing a value indicating the managed cluster’s ability to be a *target* of application data management operations. Defined values are: • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is *not* an eligible target for app data management operations.

Name	Type	Required	Description
snapshotSupported	string	False	JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are: • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is *not* eligible to perform app data management operations.
stateUnready	array[string]	False	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	False	JSON string containing a value indicating the management state of the cluster. Defined values are: • "pending" - The cluster is scheduled to be discovered or added • "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 • "deleting" - The cluster is in the process of being deleted • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDetail]	False	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: • Minimum Items: 0
protectionState	string	False	JSON string containing a value indicating the protection state of the cluster. Defined values are: • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots
protectionStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are: • Minimum Items: 0

Name	Type	Required	Description
managedStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127
managedTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are: • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".
tridentVersion	string	False	JSON string containing the version of Trident installed on the cluster. Defined values are: • Conforms to the Software Version Schema
acpVersion	string	False	JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are: • Conforms to the Software Version Schema

Name	Type	Required	Description
tridentManagedState	string	False	JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are: • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster
tridentManagedStateDetails	array[type_astra_stateDetail]	False	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. • Minimum Items: 0

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	States that can be requested in a given tridentManagedState. The following states can be requested in each defined state: • "managed": "managed" • "unmanaged": "unmanaged"
inUse	string	False	JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are: • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it
accHost	string	False	JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are: • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.

Name	Type	Required	Description
clusterType	string	False	JSON string containing a value indicating the type of cluster. Defined values are: • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "anthos" - The cluster is of type GKE Anthos • "kubernetes" - The cluster is generic Kubernetes
clusterVersion	string	False	JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
clusterVersionString	string	False	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: • Minimum length: 1 • Maximum length: 31
clusterCreationTimestamp	string	False	JSON string containing the timestamp indicating when the cluster was originally created. Defined values are: • Conforms to the ISO-8601 Date Time Schema
namespaces	array[string]	False	JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are: • Minimum length: 1 • Maximum length: 253
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.

Name	Type	Required	Description
cloudID	string	False	JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are: • Conforms to the Astra Identifier Schema
credentialID	string	False	JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are: • Conforms to the Astra Identifier Schema
location	string	False	JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: • Minimum length: 1 • Maximum length: 63
isMultizonal	string	False	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: • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. • Minimum length: 1 • Maximum length: 255
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	type_astra_metadata_update	False	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.

Example request


```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "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	

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	additionalDetails	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[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 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 • example: {{.Account}}

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 • example: {{.Account}}
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	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,name,kubernetesLabels
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: namespace_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-namespaces",
  "version": "1.2",
  "items": [
    [
      "7d451d2f-196e-4234-aee9-7e2376047e63",
      "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-namespace"
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
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: • Minimum length: 1 • Maximum length: 255
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0

Name	Type	Required	Description
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: • "application/astra-namespace"
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
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource

Name	Type	Required	Description
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

Example response


```
{
  "type": "application/astra-namespace",
  "version": "1.2",
  "id": "214dc2eb-19a6-5444-b156-f4b6b551a81a",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-aee9-
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",
  "kubernetesUID": "4f28c377-e5dc-4dcd-b7cd-319cf2b8a345",
  "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 • example: {{.Account}}
cluster_id	string	path	True	ID of the containing cluster resource

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" • example: id,name,kubernetesLabels
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: namespace_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-namespaces",
  "version": "1.2",
  "items": [
    [
      "7d451d2f-196e-4234-aee9-7e2376047e63",
      "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-namespace"
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
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: • Minimum length: 1 • Maximum length: 255
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0

Name	Type	Required	Description
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: • "application/astra-namespace"
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
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource

Name	Type	Required	Description
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

Example response


```
{
  "type": "application/astra-namespace",
  "version": "1.2",
  "id": "214dc2eb-19a6-5444-b156-f4b6b551a81a",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-aee9-
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",
  "kubernetesUID": "4f28c377-e5dc-4dcd-b7cd-319cf2b8a345",
  "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 • example: {{.Account}}

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" • example: id,name,kubernetesLabels
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: namespace_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-namespaces",
  "version": "1.2",
  "items": [
    [
      "7d451d2f-196e-4234-aee9-7e2376047e63",
      "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-namespace"
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
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: • Minimum length: 1 • Maximum length: 255
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0

Name	Type	Required	Description
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: • "application/astra-namespace"
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
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource

Name	Type	Required	Description
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

Example response


```
{
  "type": "application/astra-namespace",
  "version": "1.2",
  "id": "214dc2eb-19a6-5444-b156-f4b6b551a81a",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-aee9-
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",
  "kubernetesUID": "4f28c377-e5dc-4dcd-b7cd-319cf2b8a345",
  "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource

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" • example: id,name,kubernetesLabels
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: namespace_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response


```
{
  "type": "application/astra-namespaces",
  "version": "1.2",
  "items": [
    [
      "7d451d2f-196e-4234-aee9-7e2376047e63",
      "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-namespace"
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
links	array[type_astra_link]	True	Links describing supported operations against the resource.

Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: • Minimum length: 1 • Maximum length: 255
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0

Name	Type	Required	Description
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: • "application/astra-namespace"
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
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace
namespaceStateDetails	array[type_astra_stateDetail]	True	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: • Minimum items: 0
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: • Conforms to the Kubernetes Label Array Schema
kubernetesUID	string	True	JSON string containing the Kubernetes generated UID of the namespace resource

Name	Type	Required	Description
clusterID	string	True	JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are: • Conforms to the Astra Identifier Schema
systemType	string	False	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: • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don’t necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

Example response


```
{
  "type": "application/astra-namespace",
  "version": "1.2",
  "id": "214dc2eb-19a6-5444-b156-f4b6b551a81a",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-aee9-
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",
  "kubernetesUID": "4f28c377-e5dc-4dcd-b7cd-319cf2b8a345",
  "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	accept-post	False	
permissions	array[string]	False	
accept-put	accept-put	False	

type_astra_link

Name	Type	Required	Description
rel	string	True	
href	string	True	
type	string	False	
targetSchema	targetSchema	False	
title	string	False	
hints	hints	False	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 • example: {{.Account}}

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" • example: id,summary
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" • example: 4

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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" • example: 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></continue>

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: notification_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "true" - The banner is dismissible • "false" - The banner is not dismissible

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: • "application/astra-notification"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
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 a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^ [a-z])(\.([a-z])+$"
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO-8601 Date Time Schema
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*$"

Name	Type	Required	Description
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema
additionalResourceIDs	array[string]	True	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. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra-([a-zA-Z])+$"

Name	Type	Required	Description
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
severity	string	True	JSON string containing one of the following values that indicate the severity of an event. Defined values are: • "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. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt. • "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.

Name	Type	Required	Description
class	string	True	JSON string containing one of the following values that indicate the class of the event. Defined values are: • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue.
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095

Name	Type	Required	Description
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
destinations	array[string]	False	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. Defined values are: • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event.
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are: • Minimum length: 3 • Maximum length: 4095
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are: • Minimum length: 1 • Maximum length: 1023

Name	Type	Required	Description
resourceMethod	string	False	JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1-5][0-9]{2}$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are: • Conforms to the Astra Identifier Schema

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: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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

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 • example: {{.Account}}
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: • "application/astra-notification"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^[a-z])(\.([a-z])+$"
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: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*$"
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema
additionalResourceIDs	array[string]	True	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. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra-([a-zA-Z])+$"
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
severity	string	True	JSON string containing one of the following values that indicate the severity of an event. Defined values are: • "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. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt. • "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.

Name	Type	Required	Description
class	string	True	JSON string containing one of the following values that indicate the class of the event. Defined values are: • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue.
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023

Name	Type	Required	Description
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63
destinations	array[string]	False	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. Defined values are: • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event.

Name	Type	Required	Description
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are: • Minimum length: 3 • Maximum length: 4095
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are: • Minimum length: 1 • Maximum length: 1023
resourceMethod	string	False	JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation

Name	Type	Required	Description
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1-5][0-9]{2}$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are: • Conforms to the Astra Identifier Schema
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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": [
    "84dfee99-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: • "true" - The banner is dismissible • "false" - The banner is not dismissible

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 • example: {{.Account}}

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: • "application/astra-package"
version	string	True	Version of the resource. Defined values are: • "1.0"
packageName	string	True	JSON string containing the package name. Defined values are: • Minimum length: 1 • Maximum length: 31 Example values are: • "acc" • "acs" • "trident"
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: • Conforms to the SemVer Schema
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: • "install" • "patch"
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	JSON string describing the severity level of this patch or installation. Defined values are: • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches
images	array[images]	False	JSON array of JSON objects, each containing a Docker image that is part of the package.
artifacts	array[artifacts]	False	JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.
files	array[files]	False	JSON array of JSON objects, each representing a non-image artifact associated with this package.
upgradableVersions	upgradableVersions	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[dependencies]	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	type_astra_metadata	False	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.

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":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXByZXNzZWQgZmlsZSBjb250ZW50"
    }
  ],
  "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: • "application/astra-package"
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
packageName	string	True	JSON string containing the package name. Defined values are: • Minimum length: 1 • Maximum length: 31 Example values are: • "acc" • "acs" • "trident"
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: • Conforms to the SemVer Schema
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: • "install" • "patch"
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	JSON string describing the severity level of this patch or installation. Defined values are: • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches
packageState	string	True	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: • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	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. Defined values are: • Conforms to the State Transition Schema
packageStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0
images	array[images]	False	JSON array of JSON objects, each containing a Docker image that is part of the package.
artifacts	array[artifacts]	False	JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.
files	array[files]	False	JSON array of JSON objects, each representing a non-image artifact associated with this package.

Name	Type	Required	Description
upgradableVersions	upgradableVersions	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[dependencies]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	type_astra_metadata	True	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.

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": "/globalcicd/acc",
      "imageName": "storage-backend-metrics",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/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":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXByZXNzZWQgZmlsZSBjb250ZW50"
    }
  ],
  "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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31

images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63

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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: • Defined regex is: "^(sha256:)[0-9a-f]{64}$"
dependsOnImages	array[dependsOnImages]	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: • "acc" • "acs" • "trident" • "kubernetes"
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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 511

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: • Minimum length: 1 • Maximum length: 1023
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
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: • Minimum length: 1 • Maximum length: 511
fileMediaType	string	True	JSON string containing the file media-type. Defined values are any media type defined by IANA. In addition, application/x-yaml or application/x-yaml for yaml files is supported. • Minimum length: 1 • Maximum length: 211
fileContents	string	True	JSON string containing the file content. Defined values are: • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?

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: • Conforms to the SemVer Schema
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: • Conforms to the SemVer Schema

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: • Conforms to the SemVer Schema

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: • Conforms to the SemVer Schema

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	

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	additionalDetails	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 • example: {{.Account}}

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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" • example: id,packageName ,packageVersion ,softwareType
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: package_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31

images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63
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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: • Defined regex is: "^(sha256:)[0-9a-f]{64}$"
dependsOnImages	array[dependsOnImages]	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: • "acc" • "acs" • "trident" • "kubernetes"
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: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 511
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: • Minimum length: 1 • Maximum length: 1023
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31
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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 511
fileMediaType	string	True	JSON string containing the file media-type. Defined values are any media type defined by IANA. In addition, application/x-yaml or application/x-yaml for yaml files is supported. • Minimum length: 1 • Maximum length: 211
fileContents	string	True	JSON string containing the file content. Defined values are: • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?

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: • Conforms to the SemVer Schema
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: • Conforms to the SemVer Schema

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: • Conforms to the SemVer Schema

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: • Conforms to the SemVer Schema

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	

package_1.0_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-package"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
packageName	string	True	JSON string containing the package name. Defined values are: • Minimum length: 1 • Maximum length: 31 Example values are: • "acc" • "acs" • "trident"
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: • Conforms to the SemVer Schema
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: • "install" • "patch"
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	JSON string describing the severity level of this patch or installation. Defined values are: • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches
packageState	string	True	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: • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	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. Defined values are: • Conforms to the State Transition Schema
packageStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0
images	array[images]	False	JSON array of JSON objects, each containing a Docker image that is part of the package.
artifacts	array[artifacts]	False	JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.
files	array[files]	False	JSON array of JSON objects, each representing a non-image artifact associated with this package.

Name	Type	Required	Description
upgradableVersions	upgradableVersions	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[dependencies]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	type_astra_metadata	True	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.

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

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 • example: {{.Account}}
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: • "application/astra-package"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
packageName	string	True	JSON string containing the package name. Defined values are: • Minimum length: 1 • Maximum length: 31 Example values are: • "acc" • "acs" • "trident"
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: • Conforms to the SemVer Schema
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: • "install" • "patch"
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	JSON string describing the severity level of this patch or installation. Defined values are: • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches
packageState	string	True	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: • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransition]	True	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. Defined values are: • Conforms to the State Transition Schema
packageStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0
images	array[images]	False	JSON array of JSON objects, each containing a Docker image that is part of the package.
artifacts	array[artifacts]	False	JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.
files	array[files]	False	JSON array of JSON objects, each representing a non-image artifact associated with this package.

Name	Type	Required	Description
upgradableVersions	upgradableVersions	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[dependencies]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	type_astra_metadata	True	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.

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": "/globalcicd/acc",
      "imageName": "storage-backend-metrics",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/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":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXByZXNzZWQgZmlsZSBjb250ZW50"
    }
  ],
  "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	additionalDetails	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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31

images

Name	Type	Required	Description
imageName	string	True	JSON string containing the Docker image name. Defined values are: • Minimum length: 1 • Maximum length: 63
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: /globalcicd/acc Defined values are: • Minimum length: 1 • Maximum length: 1023
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: • Defined regex is: "^(sha256:)[0-9a-f]{64}$"
dependsOnImages	array[dependsOnImages]	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: • "acc" • "acs" • "trident" • "kubernetes"
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: • Minimum length: 1 • Maximum length: 63

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: • Minimum length: 1 • Maximum length: 511
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: • Minimum length: 1 • Maximum length: 1023
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31
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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 511
fileMediaType	string	True	JSON string containing the file media-type. Defined values are any media type defined by IANA. In addition, application/x-yaml or application/x-yaml for yaml files is supported. • Minimum length: 1 • Maximum length: 211
fileContents	string	True	JSON string containing the file content. Defined values are: • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?

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: • Conforms to the SemVer Schema
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: • Conforms to the SemVer Schema

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: • Conforms to the SemVer Schema

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: • Conforms to the SemVer Schema

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 • example: {{.Account}}
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 • example: {{.Account}}
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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-roleBinding"
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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,userID,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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: roleBinding_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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

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: • "application/astra-roleBinding"

Name	Type	Required	Description
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
accountID	string	False	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • 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

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 • example: {{.Account}}
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: • "application/astra-roleBinding"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-roleBinding"
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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,userID,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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: roleBinding_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-roleBinding"

Name	Type	Required	Description
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • 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

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	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
accountID	string	False	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}

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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-roleBinding"
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • 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: accountID,userID,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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: roleBinding_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.

Name	Type	Required	Description
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
accountID	string	False	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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: • "application/astra-roleBinding"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-roleBinding"
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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,userID,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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: roleBinding_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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

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: • "application/astra-roleBinding"

Name	Type	Required	Description
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
accountID	string	False	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • 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

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 • example: {{.Account}}
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: • "application/astra-roleBinding"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
userID	string	False	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-roleBinding"
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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,userID,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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: roleBinding_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.

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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • 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: 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: • "application/astra-roleBinding"

Name	Type	Required	Description
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
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: • "user" • "group" 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: • 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.

Name	Type	Required	Description
groupID	string	True	JSON string containing a group resource ID. Defined values are: • 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.
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: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • 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

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	JSON string containing a user resource ID. Defined values are: • 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.
groupID	string	False	JSON string containing a group resource ID. Defined values are: • 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.
accountID	string	False	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: • Conforms to the Astra Identifier Schema
role	string	True	JSON string containing one of the four defined roles. Defined values are: • "viewer" • "member" • "admin" • "owner"

Name	Type	Required	Description
roleConstraints	array[string]	False	JSON array of JSON strings specifying the scope of the role assignment. Defined values are: • 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: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.examp

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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: • "application/astra-schedule"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
name	string	True	JSON string containing a name of the schedule. Defined values are: • Minimum length: 1 • Maximum length: 63
enabled	string	False	JSON string indicating if a schedule is active. Defined values are: • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: • "hourly" • "daily" • "weekly" • "monthly" • "custom"

Name	Type	Required	Description
minute	string	False	JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1-5][0-9]$" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.
hour	string	False	JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1][0-9]|[2][0-3]$" This field is present if granularity is set to "daily", "weekly", or "monthly".
dayOfWeek	string	False	JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are: • Defined regex is: "^[0-7]$" This field is only present if granularity is set to "weekly".

Name	Type	Required	Description
dayOfMonth	string	False	JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are: • Defined regex is: "^[1-9]|[1-2][0-9]|[3][0-1]$" This field is only present if granularity is set to "monthly".
recurrenceRule	string	False	JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".
snapshotRetention	string	True	JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"

Name	Type	Required	Description
backupRetention	string	True	JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
bucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema
replicate	string	False	JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are: • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-schedule"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a name of the schedule. Defined values are: • Minimum length: 1 • Maximum length: 63
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: • "hourly" • "daily" • "weekly" • "monthly" • "custom"
minute	string	True	JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1-5][0-9]$" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.
hour	string	False	JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1][0-9]|[2][0-3]$" This field is present if granularity is set to "daily", "weekly", or "monthly".

Name	Type	Required	Description
dayOfWeek	string	False	JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are: • Defined regex is: "^[0-7]$" This field is only present if granularity is set to "weekly".
dayOfMonth	string	False	JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are: • Defined regex is: "^[1-9]|[1-2][0-9]|[3][0-1]$" This field is only present if granularity is set to "monthly".
recurrenceRule	string	False	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".

Name	Type	Required	Description
snapshotRetention	string	True	JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
backupRetention	string	True	JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
bucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicate	string	False	JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are: • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".
metadata	type_astra_metadata_update	True	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.

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 • 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: id,name,granularity
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: schedule_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-schedule"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a name of the schedule. Defined values are: • Minimum length: 1 • Maximum length: 63
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: • "hourly" • "daily" • "weekly" • "monthly" • "custom"

Name	Type	Required	Description
minute	string	True	JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1-5][0-9]$" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.
hour	string	False	JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1][0-9]|[2][0-3]$" This field is present if granularity is set to "daily", "weekly", or "monthly".
dayOfWeek	string	False	JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are: • Defined regex is: "^[0-7]$" This field is only present if granularity is set to "weekly".

Name	Type	Required	Description
dayOfMonth	string	False	JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are: • Defined regex is: "^[1-9]|[1-2][0-9]|[3][0-1]$" This field is only present if granularity is set to "monthly".
recurrenceRule	string	False	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".

Name	Type	Required	Description
snapshotRetention	string	True	JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
backupRetention	string	True	JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
bucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicate	string	False	JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are: • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".
metadata	type_astra_metadata_update	True	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.

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: • "application/astra-schedule"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a name of the schedule. Defined values are: • Minimum length: 1 • Maximum length: 63
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: • "hourly" • "daily" • "weekly" • "monthly" • "custom"
minute	string	True	JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1-5][0-9]$" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.
hour	string	False	JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1][0-9]|[2][0-3]$" This field is present if granularity is set to "daily", "weekly", or "monthly".

Name	Type	Required	Description
dayOfWeek	string	False	JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are: • Defined regex is: "^[0-7]$" This field is only present if granularity is set to "weekly".
dayOfMonth	string	False	JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are: • Defined regex is: "^[1-9]|[1-2][0-9]|[3][0-1]$" This field is only present if granularity is set to "monthly".
recurrenceRule	string	False	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".

Name	Type	Required	Description
snapshotRetention	string	True	JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
backupRetention	string	True	JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
bucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
replicate	string	False	JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are: • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".
metadata	type_astra_metadata_update	True	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.

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 • 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

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-schedule"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	JSON string containing a name of the schedule. Defined values are: • Minimum length: 1 • Maximum length: 63
enabled	string	False	JSON string indicating if a schedule is active. Defined values are: • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true".
granularity	string	False	JSON string indicating the granularity of the schedule. Defined values are: • "hourly" • "daily" • "weekly" • "monthly" • "custom"
minute	string	False	JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are: • Defined regex is: "^[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.

Name	Type	Required	Description
hour	string	False	JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are: • Defined regex is: "^[0-9]|[1][0-9]|[2][0-3]$" This field is present if granularity is set to "daily", "weekly", or "monthly".
dayOfWeek	string	False	JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are: • Defined regex is: "^[0-7]$" This field is only present if granularity is set to "weekly".
dayOfMonth	string	False	JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are: • Defined regex is: "^[1-9]|[1-2][0-9]|[3][0-1]$" This field is only present if granularity is set to "monthly".

Name	Type	Required	Description
recurrenceRule	string	False	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".
snapshotRetention	string	True	JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"
backupRetention	string	True	JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are: • Minimum length: 1 • Maximum length: 63 • Defined regex is: "^(0|([1-9][0-9]*))$"

Name	Type	Required	Description
bucketID	string	False	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. Defined values are: • Conforms to the Astra Identifier Schema
replicate	string	False	JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are: • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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 • 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: 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 • 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"

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"
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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: setting_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	properties	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: • "application/astra-setting"
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
name	string	True	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: • Minimum length: 1 • Maximum length: 63 • 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.
currentConfig	type_json	True	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.

Name	Type	Required	Description
desiredConfig	type_json	False	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.
configSchema	type_json_schema	True	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
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "valid" - The current configuration matches the desired config. • "pending" - The desired configuration is being applied. • "error" - The desired configuration cannot be applied.
stateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are: • Minimum length: 1 • Maximum length: 127
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-setting"
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	string	True	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: • Minimum length: 1 • Maximum length: 63 • 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.

Name	Type	Required	Description
currentConfig	type_json	True	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.
desiredConfig	type_json	False	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.

Name	Type	Required	Description
configSchema	type_json_schema	True	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").
state	string	True	JSON string containing a value indicating the operational state of the application. Defined values are: • "valid" - The current configuration matches the desired config. • "pending" - The desired configuration is being applied. • "error" - The desired configuration cannot be applied.
stateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	properties	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 • example: {{.Account}}
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: • "application/astra-setting"
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	string	False	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: • Minimum length: 1 • Maximum length: 63 • 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.

Name	Type	Required	Description
currentConfig	type_json	False	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.
desiredConfig	type_json	False	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.

Name	Type	Required	Description
configSchema	type_json_schema	False	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").
state	string	False	JSON string containing a value indicating the operational state of the application. Defined values are: • "valid" - The current configuration matches the desired config. • "pending" - The desired configuration is being applied. • "error" - The desired configuration cannot be applied.
stateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	properties	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 • example: {{.Account}}

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: • "application/astra-storageBackend"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap

Name	Type	Required	Description
backendVersion	string	False	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: • Minimum length: 1 • Maximum length: 63
backendCredentialsName	string	False	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: • Minimum length: 1 • Maximum length: 63
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-storageBackend"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap
backendVersion	string	True	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: • Minimum length: 1 • Maximum length: 63
backendCredentialsName	string	True	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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
configVersion	string	False	JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
state	string	True	JSON string containing a value indicating the operational state of the storage backend. Defined values are: • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state
stateDesired	string	False	JSON string containing a value indicating the desired operational state of the storage backend. Defined values are: • "running" - The storage backend will be in a normal running state

Name	Type	Required	Description
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127
managedState	string	True	JSON string containing a value indicating the management state of the storage backend. Defined values are: • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the storage backend. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are: • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected
protectionStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are: • Minimum length: 1 • Maximum length: 127
capabilities	capabilities	True	JSON object containing this Storage Backend capabilities.

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. • additionalProperties: false
metadata	type_astra_metadata_update	True	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.

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	JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are: • "basic" - Uses username/password • "certificate" - Uses certificate • enum: ["basic", "certificate"] • example: basic
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. • uniqueItems: 1

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 • 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,state

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: storageBackend_1.3_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "basic" - Uses username/password • "certificate" - Uses certificate • enum: ["basic", "certificate"] • example: basic
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. • uniqueItems: 1

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	

storageBackend_1.3_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-storageBackend"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap

Name	Type	Required	Description
backendVersion	string	True	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: • Minimum length: 1 • Maximum length: 63
backendCredentialsName	string	True	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: • Minimum length: 1 • Maximum length: 63
configVersion	string	False	JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the storage backend. Defined values are: • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state
stateDesired	string	False	JSON string containing a value indicating the desired operational state of the storage backend. Defined values are: • "running" - The storage backend will be in a normal running state
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	True	JSON string containing a value indicating the management state of the storage backend. Defined values are: • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the storage backend. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
protectionState	string	True	JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are: • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected
protectionStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are: • Minimum length: 1 • Maximum length: 127
capabilities	capabilities	True	JSON object containing this Storage Backend capabilities.

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. • additionalProperties: false
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-storageBackend"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap
backendVersion	string	True	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
backendCredentialsName	string	True	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: • Minimum length: 1 • Maximum length: 63
configVersion	string	False	JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
state	string	True	JSON string containing a value indicating the operational state of the storage backend. Defined values are: • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state

Name	Type	Required	Description
stateDesired	string	False	JSON string containing a value indicating the desired operational state of the storage backend. Defined values are: • "running" - The storage backend will be in a normal running state
stateUnready	array[string]	True	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: • Minimum length: 1 • Maximum length: 127
managedState	string	True	JSON string containing a value indicating the management state of the storage backend. Defined values are: • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management

Name	Type	Required	Description
managedStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127
healthState	string	False	JSON string containing a value indicating the health state of the storage backend. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are: • Minimum length: 1 • Maximum length: 127
protectionState	string	True	JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are: • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected

Name	Type	Required	Description
protectionStateUnready	array[string]	True	JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are: • Minimum length: 1 • Maximum length: 127
capabilities	capabilities	True	JSON object containing this Storage Backend capabilities.
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. • additionalProperties: false
metadata	type_astra_metadata_update	True	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.

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: • "basic" - Uses username/password • "certificate" - Uses certificate • enum: ["basic", "certificate"] • example: basic
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. • uniqueItems: 1

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

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: • "application/astra-storageBackend"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63
backendType	string	False	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap

Name	Type	Required	Description
backendVersion	string	False	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: • Minimum length: 1 • Maximum length: 63
backendCredentialsName	string	False	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: • Minimum length: 1 • Maximum length: 63
configVersion	string	False	JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the storage backend. Defined values are: • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state
stateDesired	string	False	JSON string containing a value indicating the desired operational state of the storage backend. Defined values are: • "running" - The storage backend will be in a normal running state
stateUnready	array[string]	False	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: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
managedState	string	False	JSON string containing a value indicating the management state of the storage backend. Defined values are: • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management
managedStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the storage backend. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
protectionState	string	False	JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are: • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected
protectionStateUnready	array[string]	False	JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. • additionalProperties: false
metadata	type_astra_metadata_update	False	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.

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. • uniqueItems: 1

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	

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 • example: {{.Account}}

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 • example: {{.Account}}
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" • 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: storageClass_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-storageClass"
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
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation

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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 255

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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

type_astra_metadata_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	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: • "application/astra-storageClass"
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	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
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: • Minimum length: 1 • Maximum length: 255
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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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: storageClass_1.1_get_response_body, array[]]	True	

Name	Type	Required	Description
metadata	type_astra_metadata_list	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: • "application/astra-storageClass"
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
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation

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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 255

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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

type_astra_metadata_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	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: • "application/astra-storageClass"
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	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
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: • Minimum length: 1 • Maximum length: 255
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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • 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: storageClass_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-storageClass"
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
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation

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: • Minimum length: 1 • Maximum length: 63
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: • Minimum length: 1 • Maximum length: 255

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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

type_astra_metadata_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	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: • "application/astra-storageClass"
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	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are: • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	JSON string indicating whether the storage class allows volume expansion. Defined values are: • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: • "true" - The storage class contains the default annotation
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: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
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: • Minimum length: 1 • Maximum length: 255
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: • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}

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: • "application/astra-subscription"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
customerProfileID	string	False	JSON string containing the customer profile ID from Authorize.net, 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: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
paymentFirstName	string	False	JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled. Defined values are: • Minimum length: 1 • Maximum length: 63
paymentLastName	string	False	JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled. Defined values are: • Minimum length: 1 • Maximum length: 63
paymentAddress	paymentAddress	False	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.
paymentProfileID	string	False	JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are: • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms.
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: • "netapp" • "azure" • "aws" • "gcp"
terms	string	True	JSON string indicating the current tier of the account. Defined values are: • "trial" • "paid"

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	Media type of the resource. Defined values are: • "application/astra-subscription"

Name	Type	Required	Description
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
customerProfileID	string	True	JSON string containing the customer profile ID from Authorize.net, 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: • Minimum length: 0 • Maximum length: 63
paymentProfileID	string	False	JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are: • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms.
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: • "netapp" • "azure" • "aws" • "gcp"
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
terms	string	True	JSON string indicating the current tier of the account. Defined values are: • "trial" • "paid"
status	string	True	JSON string indicating the current status of the subscription. Defined values are: • "active" • "inactive"
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	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: • "not started" • "in progress" • "success" • "failed"
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	type_astra_metadata_update	True	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.

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: • Minimum length: 0 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 0 • Maximum length: 63

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 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 • example: {{.Account}}

Name	Type	In	Required	Description
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></continue>
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"

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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
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: subscription_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-subscription"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
customerProfileID	string	True	JSON string containing the customer profile ID from Authorize.net, 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: • Minimum length: 0 • Maximum length: 63
paymentProfileID	string	False	JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: • Minimum length: 0 • Maximum length: 63
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are: • Conforms to the ISO-8601 Date Time Schema 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: • Minimum length: 1 • Maximum length: 31
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: • "netapp" • "azure" • "aws" • "gcp"
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31
terms	string	True	JSON string indicating the current tier of the account. Defined values are: • "trial" • "paid"
status	string	True	JSON string indicating the current status of the subscription. Defined values are: • "active" • "inactive"

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: • "not started" • "in progress" • "success" • "failed"

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	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-subscription"

Name	Type	Required	Description
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
customerProfileID	string	True	JSON string containing the customer profile ID from Authorize.net, 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: • Minimum length: 0 • Maximum length: 63
paymentProfileID	string	False	JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are: • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms.
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: • "netapp" • "azure" • "aws" • "gcp"
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
terms	string	True	JSON string indicating the current tier of the account. Defined values are: • "trial" • "paid"
status	string	True	JSON string indicating the current status of the subscription. Defined values are: • "active" • "inactive"
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	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: • "not started" • "in progress" • "success" • "failed"
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	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: • "application/astra-subscription"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
customerProfileID	string	False	JSON string containing the customer profile ID from Authorize.net, 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: • Minimum length: 0 • Maximum length: 63
paymentFirstName	string	False	JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled. Defined values are: • Minimum length: 1 • Maximum length: 63
paymentLastName	string	False	JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled. Defined values are: • Minimum length: 1 • Maximum length: 63
paymentAddress	paymentAddress	False	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
paymentProfileID	string	False	JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: • Minimum length: 0 • Maximum length: 63
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are: • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms.
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: • "netapp" • "azure" • "aws" • "gcp"
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: • Minimum length: 1 • Maximum length: 31
terms	string	False	JSON string indicating the current tier of the account. Defined values are: • "trial" • "paid"
status	string	False	JSON string indicating the current status of the subscription. Defined values are: • "active" • "inactive"
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: • "not started" • "in progress" • "success" • "failed"
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	type_astra_metadata_update	False	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.

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: • Minimum length: 0 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 0 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: • Minimum length: 0 • Maximum length: 63

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 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 • 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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: task_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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	

task_1.1_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-task"
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	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^[a-z])(\.([a-z])+$"
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: • Minimum length: 3 • Maximum length: 63
description	string	True	JSON string containing a description of the task. Defined values are: • Minimum length: 1 • Maximum length: 511

Name	Type	Required	Description
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: • Minimum length: 1 • Maximum length: 31
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
resourceID	string	True	JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: • Conforms to the Astra Identifier Schema
resourceURI	string	True	JSON string containing the URI associated with the task. Defined values are: • Minimum length: 3 • Maximum length: 4095

Name	Type	Required	Description
resourceCollectionURI	array[string]	True	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are: • Minimum length: 3 • Maximum length: 4095
state	string	True	JSON string containing a value indicating the operational state of the task. Defined values are: • "notStarted" - The task has not started executing. • "running" - The task is running. • "completed" - The task has completed. • "pausing" - The task was requested to pause. • "paused" - The task is paused. • "cancelling" - The task was requested to cancel. • "cancelled" - The task is cancelled. • "failed" - The task has failed. • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	True	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. • Minimum length: 1 • Maximum length: 31 For example: "stateTransitions" : [{ "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"] },]
stateDetails	array[type_astra_stateDetail]	True	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. • Minimum Items: 0
orderHint	number	False	JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.

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: • Conforms to the ISO-8601 Date Time Schema
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: • Conforms to the ISO-8601 Date Time Schema
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: • "application/astra-task"
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	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^[a-z])(\.([a-z])+$"
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: • Minimum length: 3 • Maximum length: 63
description	string	True	JSON string containing a description of the task. Defined values are: • Minimum length: 1 • Maximum length: 511

Name	Type	Required	Description
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: • Minimum length: 1 • Maximum length: 31
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: • Conforms to the Astra Identifier Schema
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: • Conforms to the Astra Identifier Schema
resourceID	string	True	JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: • Conforms to the Astra Identifier Schema
resourceURI	string	True	JSON string containing the URI associated with the task. Defined values are: • Minimum length: 3 • Maximum length: 4095

Name	Type	Required	Description
resourceCollectionURI	array[string]	True	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are: • Minimum length: 3 • Maximum length: 4095
state	string	True	JSON string containing a value indicating the operational state of the task. Defined values are: • "notStarted" - The task has not started executing. • "running" - The task is running. • "completed" - The task has completed. • "pausing" - The task was requested to pause. • "paused" - The task is paused. • "cancelling" - The task was requested to cancel. • "cancelled" - The task is cancelled. • "failed" - The task has failed. • Minimum length: 1 • Maximum length: 31

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	True	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. • Minimum length: 1 • Maximum length: 31 For example: "stateTransitions" : [{ "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"] },]
stateDetails	array[type_astra_stateDetail]	True	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. • Minimum Items: 0
orderHint	number	False	JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.

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: • Conforms to the ISO-8601 Date Time Schema
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: • Conforms to the ISO-8601 Date Time Schema
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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	additionalDetails	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

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 • example: {{.Account}}
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: • "application/astra-token"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0"
name	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-token"
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	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
token	string	True	JSON string containing a base64-encoded system-generated API token. Defined values are: • Conforms to the base64 Encoded Data Schema
metadata	type_astra_metadata_update	True	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.

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 • 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: 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"

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: token_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-token"
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	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	True	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.

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: • "application/astra-token"
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	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 • 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

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	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	False	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	False	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.

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 • 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: 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 • example: {{.Account}}
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: • "application/astra-token"
version	string	True	Version of the resource. Defined values are: • "1.0"

Name	Type	Required	Description
name	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
metadata	type_astra_metadata_update	False	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.

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: • "application/astra-token"
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	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
token	string	True	JSON string containing a base64-encoded system-generated API token. Defined values are: • Conforms to the base64 Encoded Data Schema
metadata	type_astra_metadata_update	True	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.

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 • example: {{.Account}}
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: 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"

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: token_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • "application/astra-token"
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	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	True	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.

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: • "application/astra-token"
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	string	True	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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	JSON string containing a token name. Defined values are: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.
userID	string	False	JSON string containing the UUID for the user that the token is associated with. Defined values are: • Conforms to the Astra Identifier Schema
metadata	type_astra_metadata_update	False	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.

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 • example: {{.Account}}
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	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: notificationID,sequenceCount
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" • example: 2

Name	Type	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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" • example: count%20desc

Name	Type	In	Required	Description
skip	string	query	False	Indicates the number of resources to skip over when listing a collection. URL examples: "skip=1" OpenAPI examples: "1"
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" • example: 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></continue>

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: • "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	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: • Conforms to the Astra Identifier Schema
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	JSON string containing one of the following values that indicate the severity of the event. Defined values are: • "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 • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: • Conforms to the Astra Identifier Schema
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	JSON string containing one of the following values that indicate the severity of the event. Defined values are: • "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 • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}
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: notificationID,sequenceCount

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" • example: 2
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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" • example: count%20desc
skip	string	query	False	Indicates the number of resources to skip over when listing a collection. URL examples: "skip=1" OpenAPI examples: "1"
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" • example: true

Name	Type	In	Required	Description
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></continue>

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: • "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	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: • Conforms to the Astra Identifier Schema
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	JSON string containing one of the following values that indicate the severity of the event. Defined values are: • "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 • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • 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: 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
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: • Conforms to the Astra Identifier Schema

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	JSON string containing one of the following values that indicate the severity of the event. Defined values are: • "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 • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 • example: {{.Account}}

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" • example: id,componentName,upgradeVersion
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"

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: upgrade_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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[type_astra_label]	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: • "application/astra-upgrade"

Name	Type	Required	Description
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
componentName	string	True	JSON string containing the name of the type of software that can be upgraded. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentInstance	string	True	JSON string containing the URI of the component that can be upgraded. Defined values are: • Minimum length: 3 • Maximum length: 4095
componentID	string	True	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
upgradeVersion	string	True	JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: • Conforms to the SemVer Schema
currentVersion	string	True	JSON string containing the current SemVer of the entity to be upgraded. Defined values are: • Conforms to the SemVer Schema
dependencies	array[string]	True	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are: • "unavailable" - The upgrade is not available at this time • "proposed" - The upgrade is proposed but will not automatically run until approved • "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources • "running" - The upgrade is in progress • "complete" - The upgrade has completed • "failed" - The upgrade did not complete

Name	Type	Required	Description
stateDesired	string	True	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: • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window
stateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	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.

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 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 • example: {{.Account}}
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: • "application/astra-upgrade"
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
componentName	string	True	JSON string containing the name of the type of software that can be upgraded. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentInstance	string	True	JSON string containing the URI of the component that can be upgraded. Defined values are: • Minimum length: 3 • Maximum length: 4095
componentID	string	True	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: • Conforms to the Astra Identifier Schema
upgradeVersion	string	True	JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: • Conforms to the SemVer Schema
currentVersion	string	True	JSON string containing the current SemVer of the entity to be upgraded. Defined values are: • Conforms to the SemVer Schema

Name	Type	Required	Description
dependencies	array[string]	True	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	True	JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are: • "unavailable" - The upgrade is not available at this time • "proposed" - The upgrade is proposed but will not automatically run until approved • "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources • "running" - The upgrade is in progress • "complete" - The upgrade has completed • "failed" - The upgrade did not complete

Name	Type	Required	Description
stateDesired	string	True	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: • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window
stateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata_update	True	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.

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	additionalDetails	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[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 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 • example: {{.Account}}
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: • "application/astra-upgrade"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
componentName	string	False	JSON string containing the name of the type of software that can be upgraded. Defined values are: • "acc" • "acs" • "trident" • "kubernetes"
componentInstance	string	False	JSON string containing the URI of the component that can be upgraded. Defined values are: • Minimum length: 3 • Maximum length: 4095
componentID	string	False	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: • Conforms to the Astra Identifier Schema
upgradeVersion	string	False	JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: • Conforms to the SemVer Schema

Name	Type	Required	Description
currentVersion	string	False	JSON string containing the current SemVer of the entity to be upgraded. Defined values are: • Conforms to the SemVer Schema
dependencies	array[string]	False	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: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are: • "unavailable" - The upgrade is not available at this time • "proposed" - The upgrade is proposed but will not automatically run until approved • "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources • "running" - The upgrade is in progress • "complete" - The upgrade has completed • "failed" - The upgrade did not complete

Name	Type	Required	Description
stateDesired	string	False	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: • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window
stateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata_update	False	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.

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	additionalDetails	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[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

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 • example: {{.Account}}
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: • "application/astra-user"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	False	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	False	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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.

Name	Type	Required	Description
postalAddress	postalAddress	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	False	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: • "true" - A welcome email will be sent; default value on create • "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".

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	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: • "1.0" • "1.1" • "1.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).

Name	Type	Required	Description
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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.

Name	Type	Required	Description
postalAddress	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 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	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,email
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: user_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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	

user_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-user"
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
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.

Name	Type	Required	Description
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".

Name	Type	Required	Description
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

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	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".

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: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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: • "application/astra-user"
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
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.

Name	Type	Required	Description
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.
authProvider	string	False	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".

Name	Type	Required	Description
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

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	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".

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: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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:jdoe@example.com">jdoe@example.com</a>",
  "phone": "408-555-22222",
  "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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 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: • "1.0" • "1.1" • "1.2"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
state	string	False	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).

Name	Type	Required	Description
isEnabled	string	False	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	False	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	False	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
email	string	False	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.

Name	Type	Required	Description
postalAddress	postalAddress	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	False	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: • "true" - A welcome email will be sent; default value on create • "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".
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	False	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 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 • 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: 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 • example: {{.Account}}

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: • "application/astra-user"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	False	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	False	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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.

Name	Type	Required	Description
postalAddress	postalAddress	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	False	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: • "true" - A welcome email will be sent; default value on create • "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".

Name	Type	Required	Description
metadata	type_astra_metadata_update	False	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.

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	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: • "1.0" • "1.1" • "1.2"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).

Name	Type	Required	Description
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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.

Name	Type	Required	Description
postalAddress	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 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 • example: {{.Account}}

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" • example: id,email
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	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'"
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"

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></continue>

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: user_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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	

user_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-user"
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
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.

Name	Type	Required	Description
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".

Name	Type	Required	Description
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

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	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".

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: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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: • "application/astra-user"
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
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).
isEnabled	string	True	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.

Name	Type	Required	Description
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.
authProvider	string	False	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".

Name	Type	Required	Description
firstName	string	True	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
lastName	string	True	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

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	postalAddress	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	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: • "true" - A welcome email will be sent; default value on create • "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".

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: • Conforms to the ISO-8601 Date Time Schema
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	True	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.

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:jdoe@example.com">jdoe@example.com</a>",
  "phone": "408-555-22222",
  "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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 • example: {{.Account}}
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"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2"

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
state	string	False	JSON string containing a value indicating the operational state of the user. Defined values are: • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).

Name	Type	Required	Description
isEnabled	string	False	JSON string indicating if the user is allowed to log in. Defined values are: • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in.
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	JSON string indicating the context of the idAuth identifier. Defined values are: • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "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".
firstName	string	False	JSON string containing a user-specified long form first name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks

Name	Type	Required	Description
lastName	string	False	JSON string containing a user-specified long-form last name. Defined values are: • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
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: • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks
email	string	False	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.

Name	Type	Required	Description
postalAddress	postalAddress	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	False	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: • "true" - A welcome email will be sent; default value on create • "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".
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
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: • Conforms to the ISO-8601 Date Time Schema
metadata	type_astra_metadata_update	False	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.

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: • Minimum length: 2 • Maximum length: 2
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: • Minimum length: 1 • Maximum length: 63
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: • Minimum length: 1 • Maximum length: 63

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 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 • example: {{.Account}}
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: volume_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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	

volume_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-volume"

Name	Type	Required	Description
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	string	True	JSON string containing the name of the volume. Defined values are: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.
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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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: • "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: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.

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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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	additionalDetails	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 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 • example: {{.Account}}
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" • 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: volume_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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	

volume_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-volume"

Name	Type	Required	Description
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	string	True	JSON string containing the name of the volume. Defined values are: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.
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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.

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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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	additionalDetails	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 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: volume_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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	

volume_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-volume"

Name	Type	Required	Description
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	string	True	JSON string containing the name of the volume. Defined values are: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.
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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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	string	True	JSON string containing the name of the volume. Defined values are: • Minimum length: 1 • Maximum length: 255

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: • Minimum length: 1 • Maximum length: 255
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume

Name	Type	Required	Description
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.
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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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	
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	additionalDetails	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 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 • 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: 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: volume_1.2_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	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	additionalDetails	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	

volume_1.2_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-volume"

Name	Type	Required	Description
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	string	True	JSON string containing the name of the volume. Defined values are: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.
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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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 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 • example: {{.Account}}
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: • "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: • Minimum length: 1 • Maximum length: 255
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: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume
storageClass	string	False	JSON string containing the storage class for the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. • Defined values are: • Minimum length: 1 • Maximum length: 255
internalName	string	False	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. • Defined values are: • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
appsUsing	array[string]	True	JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are: • Conforms to the Astra Identifier Schema
storageBackendID	string	False	JSON string containing the ID of the storage backend that provides the volume. Defined values are: • Conforms to the Astra Identifier Schema
orchestrator	string	False	JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are: • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known
serviceLevel	string	False	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.

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	JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are: • Conforms to the Astra Identifier Schema
healthState	string	False	JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are: • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

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	additionalDetails	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

その他のリソース

ここでは、 NetApp クラウドサービスとサポート、および REST とクラウドの一般的な概念について、ヘルプや詳細情報を参照するためのリソースを提供しています。

アストラ

- "Astra Control Center のドキュメント"

  お客様の施設に導入されている Astra Control Center ソフトウェアの最新リリースのドキュメント。

- "Astra Control Service のマニュアル"

  パブリッククラウドで利用可能な最新リリースの Astra Control Service ソフトウェアのドキュメント。

- "Astra Trident のドキュメント"

  ネットアップが保守しているオープンソースのストレージオーケストレーションツールである Astra Trident ソフトウェアの最新リリースのドキュメント。

- "Astra ファミリーのドキュメント"

  オンプレミス環境とパブリッククラウド環境の両方で、すべての Astra ドキュメントに一元的にアクセスできます。

- "切断"

  Astra Controlとその他のネットアップ製品のコミュニティサポート。

ネットアップのクラウドリソース

- "NetApp BlueXP"

  ネットアップのクラウドソリューションの中心的なサイト。

- "NetApp Cloud Central コンソール"

  NetApp Cloud Central サービスコンソールにサインインします。

- "ネットアップサポート"

  トラブルシューティングツール、ドキュメント、およびテクニカルサポートにアクセスできます。

REST とクラウドの概念

- 博士 "失策" 著者 : Roy Fielding オリジナル版を読む

  本ドキュメントでは、 REST アプリケーション開発モデルを導入および確立しました。

- "Auth0"

  これは、 Astra サービスが Web アクセスに使用する認証および認可プラットフォームサービスです。

- "RFC エディタ"

  独自に番号付けされた RFC 文書の集合として維持されている Web およびインターネット標準の信頼できるソース。

法的通知

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特許

ネットアップが所有する特許の最新リストは、次のサイトで入手できます。

https://www.netapp.com/pdf.html?item=/media/11887-patentspage.pdf

プライバシーポリシー

"https://www.netapp.com/company/legal/privacy-policy/"

Astra Control API ライセンス

https://docs.netapp.com/us-en/astra-automation/media/astra-api-license.pdf

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