



# **Astra Control Automation 22.11**文档

## Astra Automation

NetApp  
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# Astra Control Automation 22.11文档

# 发行说明

## 关于此版本

此站点上的文档介绍了Astra Control REST API以及两种Astra Control部署模型版本中包含的相关自动化技术、如下所述。



每个Astra Control发行版都分配有一个格式为\*YY.MM\*的版本号。此值根据可用的年份(YY)和月份(MM)标识版本。例如、Astra Control Service 23.01于2023年1月发布。

### 发布节奏

通常、对Astra控制服务和Astra控制中心的更新会同时进行。但是、Astra控制服务的发布节奏加快、可能会导致一个或多个增量更新超出最新的Astra控制中心版本。

由于此站点记录了这两种部署模式的REST API、因此可能只有最新版本的Astra Control Service才提供某些功能。这两种部署模式之间的任何差异均会根据需要予以说明。

### Astra Control部署

此站点的文档将发布以下适用场景 控制版本：

- Astra控制服务23.01
- Astra控制中心22.11

### 更多信息

有关当前版本以及先前版本的Astra Control的详细信息、请参见以下页面和站点。

- ["Astra Control REST API 的新增功能"](#)
- ["REST 资源和端点"](#)
- ["Astra控制中心22.11文档"](#)
- ["Astra Control Service 文档"](#)
- ["早期版本的 Astra Automation 文档"](#)

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## Astra Control REST API 的新增功能

NetApp会定期更新Astra Control REST API、为您提供新功能、增强功能和错误修复。

### 2023年1月17日(23.01)

此版本对REST API进行了少量更新。

通过筛选器增强了执行挂钩功能

现在、在使用执行挂钩时、您可以添加筛选器来控制挂钩要匹配的容器。如果为单个执行钩创建多个筛选器、则这些筛选器将与逻辑运算符和运算符结合使用。每个执行挂机最多可以定义10个活动筛选器。

## 2022年11月22日(22.11)

此版本包括对REST API的扩展和更新、以及增强的命名空间和LDAP支持。

新增和增强的 **Astra** 资源

添加了四种新的资源类型：\* apiResource\*、\* ldapGroup\*、\* LDAP用户\*和\*任务\*。此外、还对多个现有资源和端点进行了改进。

监控对长期运行任务的支持

新的任务端点可用于访问受管任务资源、并可用于显示内部长时间运行的任务的状态。

增强的命名空间使用情形

增加了对跨多个命名空间的应用程序以及与符合命名空间要求的资源关联的集群资源的支持。

扩展了云订阅

现在、可以为每个云提供商添加多个帐户订阅。

其他工作流

添加了说明Astra Control REST API的其他工作流。请参见 "[基础架构工作流](#)" 和 "[管理工作流](#)" 有关详细信息 ...

相关信息

- "[Astra 控制中心：新增功能](#)"

## 2022年8月10日(22.08)

此版本包括对 REST API 的扩展和更新，以及增强的安全性和管理功能。

新增和增强的 **Astra** 资源

添加了三种新的资源类型：证书、组\*和\*应用镜像。此外、还更新了多个现有资源的版本。

**LDAP** 身份验证

您可以选择将Astra控制中心配置为与LDAP服务器集成、以便对选定的Astra用户进行身份验证。请参见 "[LDAP 配置](#)" 有关详细信息 ...

增强的执行钩

Astra Control 21.12版增加了对执行挂钩的支持。除了现有的预快照和后快照执行挂钩之外、您现在还可以在22.08版本中配置以下类型的执行挂钩：

- 预备份
- 备份后
- 还原后

Astra Control现在还允许将同一个脚本用于多个执行挂钩。

### 使用SnapMirror进行应用程序复制

现在、您可以使用NetApp SnapMirror技术在集群之间复制数据和应用程序更改。此增强功能可用于提高业务连续性和恢复能力。

#### 相关信息

- ["Astra控制中心22.08：新增功能"](#)

## 2022 年 4 月 26 日 ( 22.04 )

此版本包括对 REST API 的扩展和更新，以及增强的安全性和管理功能。

### 新增和增强的 **Astra** 资源

添加了两种新的资源类型： \* 软件包 \* 和 \* 升级 \* 。此外，已升级多个现有资源的版本。

### 具有命名空间粒度的增强型 **RBAC**

将角色绑定到关联用户时，您可以限制用户有权访问的命名空间。请参见 \* 角色绑定 API" 参考和 ["RBAC 安全性"](#) 有关详细信息 ...

### 删除存储分段

您可以在不再需要某个存储分段或此存储分段无法正常运行时将其删除。

### 支持 **Cloud Volumes ONTAP**

现在支持将 Cloud Volumes ONTAP 用作存储后端。

### 其他产品增强功能

这两种 Astra Control 产品实施还有几项额外的增强功能，包括：

- Astra 控制中心的通用传入
- AKS 中的专用集群
- 支持 Kubernetes 1.22
- 支持 VMware Tanzu 产品组合

请参见 Astra 控制中心和 Astra 控制服务文档站点上的 \* 新增功能 \* 页面。

#### 相关信息

- ["Astra控制中心22.04：新增功能"](#)



## 2021 年 12 月 14 日 ( 21.12 )

此版本扩展了 REST API ，并对文档结构进行了更改，以便在未来的版本更新中更好地支持 Astra Control 的发展。

每个版本的 **Astra Control** 都有单独的 **Astra Automation** 文档

每个版本的 Astra Control 都包含一个独特的 REST API ，该 API 已根据特定版本的功能进行了增强和定制。每个版本的 Astra Control REST API 的文档以及相关的 GitHub 内容存储库现在均可从其自己的专用网站上获得。主文档站点 "[Astra Control Automation](#)" 始终包含最新版本的文档。请参见 "[早期版本的 Astra Control Automation 文档](#)" 有关先前版本的信息。

扩展 **REST** 资源类型

REST 资源类型的数量不断增加，重点是执行挂钩和存储后端。新资源包括：帐户，执行钩，钩源，执行钩覆盖，集群节点，受管存储后端，命名空间，存储设备和存储节点。请参见 "[Resources](#)" 有关详细信息 ...

### NetApp Astra Control Python SDK

NetApp Astra Control Python SDK 是一个开源软件包，可以更轻松地为您的 Astra Control 环境开发自动化代码。其核心是 Astra SDK ，其中包含一组类，用于抽象化 REST API 调用的复杂性。此外，还提供了一个工具包脚本，用于通过包装和抽象化 Python 类来执行特定管理任务。请参见 "[NetApp Astra Control Python SDK](#)" 有关详细信息 ...

相关信息

- "[Astra控制中心21.12：新增功能](#)"

## 2021 年 8 月 5 日 ( 21.08 )

此版本引入了新的 Astra 部署模式，并对 REST API 进行了重大扩展。

**Astra** 控制中心部署模式

除了作为公有云服务提供的现有 Astra 控制服务之外，此版本还包括 Astra 控制中心内部部署模式。您可以在站点上安装 Astra 控制中心来管理本地 Kubernetes 环境。两种 Astra Control 部署模式共享同一个 REST API ，但文档中会根据需要指出一些细微的差异。

扩展 **REST** 资源类型

通过 Astra Control REST API 访问的资源数量已大幅增加，许多新资源为内部 Astra Control Center 产品奠定了基础。新资源包括：ASUP，授权，功能，许可证，设置，订阅，存储分段，云，集群，受管集群，存储后端和存储类。请参见 "[Resources](#)" 有关详细信息 ...

支持 **Astra** 部署的其他端点

除了扩展的 REST 资源之外，还有其他几个新的 API 端点可用于支持 Astra Control 部署。

支持 **OpenAPI**

通过 OpenAPI 端点可以访问当前的 OpenAPI JSON 文档和其他相关资源。

## 支持 OpenMetrics

通过 OpenMetrics 资源，您可以通过 OpenMetrics 端点访问帐户指标。

### 相关信息

- ["Astra Control Center 21.08: 新增功能"](#)

## 2021 年 4 月 15 日 ( 21.04 )

此版本包含以下新增功能和增强功能：

### 引入 REST API

Astra Control REST API 可与 Astra Control Service 产品配合使用。它是基于 REST 技术和当前最佳实践创建的。API 为 Astra 部署的自动化奠定了基础，并具有以下功能和优势。

### Resources

有 14 种可用的 REST 资源类型。

### API 令牌访问

REST API 的访问通过 API 访问令牌提供，您可以在 Astra Web 用户界面上生成此令牌。通过 API 令牌，可以安全地访问 API。

### 支持收集

有一组丰富的查询参数，可用于访问资源集合。支持的部分操作包括筛选，排序和分页。

## 已知问题

您应查看当前版本中与 Astra Control REST API 相关的所有已知问题。已知问题可确定可能会阻止您成功使用本产品的问题。



Astra Control REST API 23.01版没有新的已知问题。以下所述的任何问题均已在先前版本中发现、并且仍适用于当前版本。

请根据您的部署模式查看以下页面之一。

- ["Astra控制服务的已知问题"](#)
- ["Astra Control Center的已知问题22.11."](#)

# 功能和优势概述

Astra 控制中心和 Astra 控制服务提供了一个通用的 REST API，您可以通过编程语言或 Curl 等实用程序直接访问该 API。下面介绍了 API 的主要亮点和优势。



要访问 REST API，您需要先登录到 Astra Web 用户界面并生成 API 令牌。您必须在每个 API 请求中包含令牌。

## 基于 REST 技术构建

Astra Control API 是使用 REST 技术和当前最佳实践创建的。核心技术包括 HTTP，JSON 和 RBAC。

## 支持两种 Astra Control 部署模式

Astra 控制服务在公有云环境中使用，而 Astra 控制中心则用于您的内部部署。有一个 REST API 支持这两种部署模式。

## 清晰地映射 REST 端点资源和对象模型

用于访问资源的外部 REST 端点映射到由 Astra 服务在内部维护的一致对象模型。对象模型采用实体关系（Entity-Relationship，ER）建模设计，有助于明确定义 API 操作和响应。

## 丰富的查询参数集

REST API 提供了一组丰富的查询参数，您可以使用这些参数来访问资源集合。支持的部分操作包括筛选，排序和分页。

## 与 Astra Control Web UI 对齐

Astra Web 用户界面的设计与 REST API 一致，因此两个访问路径和用户体验之间保持一致。

## 强大的调试和问题确定数据

Astra Control REST API 可提供强大的调试和问题确定功能，包括系统事件和用户通知。

## 工作流进程

我们提供了一组工作流来帮助您开发自动化代码。这些工作流分为两大类：基础架构和管理。

## 高级自动化技术的基础

除了直接访问 REST API 之外，您还可以使用基于 REST API 的其他自动化技术。

## Astra 系列文档的一部分

Astra Control Automation 文档是较大的 Astra 系列文档的一部分。请参见 "[Astra 文档](#)" 有关详细信息 ...

# 入门

## 开始之前

您可以通过查看以下步骤快速准备开始使用 Astra Control REST API。

### 拥有 Astra 帐户凭据

您需要使用 Astra 凭据登录到 Astra Web 用户界面并生成 API 令牌。使用 Astra 控制中心，您可以在本地管理这些凭据。使用 Astra 控制服务时，帐户凭据可通过 \* 身份验证 O\* 服务进行访问。

### 熟悉 Kubernetes 的基本概念

您应熟悉 Kubernetes 的几个基本概念。请参见 "[基本 Kubernetes 概念](#)" 有关详细信息 ...

### 查看 REST 概念和实施

请务必查看 "[核心 REST 实施](#)" 有关 REST 概念的信息以及有关如何设计 Astra Control REST API 的详细信息。

### 获取更多信息

您应了解中建议的追加信息资源 "[其他资源](#)"。

## 获取 API 令牌

要使用 Astra Control REST API，您需要获取 Astra API 令牌。

### 简介

API 令牌用于标识 Astra 的调用方，并且必须包含在每个 REST API 调用中。

- 您可以使用 Astra Web 用户界面生成 API 令牌。
- 令牌附带的用户身份由创建令牌的用户确定。
- 令牌必须包含在中 Authorization HTTP 请求标头。
- 令牌创建后永不过期。
- 您可以在 Astra Web 用户界面上撤消令牌。

### 相关信息

- "[撤消 API 令牌](#)"

## 创建 Astra API 令牌

以下步骤介绍如何创建 Astra API 令牌。

### 开始之前

您需要 Astra 帐户的凭据。

### 关于此任务

此任务会在 Astra Web 界面上生成 API 令牌。此外，您还应检索帐户 ID，在进行 API 调用时也需要使用此 ID。

#### 步骤

1. 使用您的帐户凭据登录到 Astra。

访问以下站点以获取 Astra 控制服务：["https://astra.netapp.io"](https://astra.netapp.io)

2. 单击页面右上角的图图标并选择 \* API access\*。
3. 单击页面上的 \* 生成 API 令牌 \*，然后在弹出窗口中单击 \* 生成 API 令牌 \*。
4. 单击图标将令牌字符串复制到剪贴板并将其保存在编辑器中。
5. 复制并保存同一页面上提供的帐户 ID。

#### 完成后

通过Curl或编程语言访问Astra Control REST API时、必须在HTTP中包含API承载令牌 Authorization 请求标题。

## 您的第一次API调用

您可以在工作站的命令行界面上通过问题描述 执行一个简单的cURL命令来开始使用Astra Control REST API并确认其可用性。

#### 开始之前

本地工作站必须提供 Curl 实用程序。您还必须具有 API 令牌和关联的帐户标识符。请参见 ["获取 API 令牌"](#) 有关详细信息 ...

#### curl 示例

以下 Curl 命令将检索 Astra 用户列表。按指示提供相应的 <account\_ID> 和 <api\_token>。

```
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 输出示例

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

## 准备使用这些工作流

在将 Astra 工作流用于实时部署之前，您应熟悉这些工作流的组织和格式。

### 简介

`_Workflow_` 是完成特定管理任务或目标所需的一个或多个步骤的序列。Astra Control 工作流中的每个步骤均为以下步骤之一：

- REST API 调用（包含 curl 和 JSON 示例等详细信息）
- 调用另一个 Astra 工作流
- 其他相关任务（例如做出必要的设计决策）

这些工作流包括完成每个任务所需的核心步骤和参数。它们为自定义自动化环境提供了一个起点。

### 通用输入参数

以下所述的输入参数对于用于说明 REST API 调用的所有 curl 示例通用。



由于这些输入参数是通用的要求，因此在各个工作流中不会对其进行进一步说明。如果在特定的 curl 示例中使用了其他输入参数，则会在 `* 其他输入参数 *` 一节中进行介绍。

### 路径参数

每次 REST API 调用使用的端点路径都包括以下参数。另请参见 ["URL 格式"](#) 有关详细信息 ...

## 帐户 ID

这是用于标识运行 API 操作的 Astra 帐户的 UUIDv4 值。请参见 ["获取 API 令牌"](#) 有关查找帐户 ID 的详细信息，请参见。

## 请求标题

根据 REST API 调用，您可能需要包含多个请求标头。

## Authorization

工作流中的所有 API 调用都需要 API 令牌来标识用户。您必须在中包含令牌 Authorization 请求标题。请参见 ["获取 API 令牌"](#) 有关生成 API 令牌的详细信息。

## 内容类型

对于请求正文中包含 JSON 的 HTTP POST 和 PUT 请求，您应根据 Astra 资源声明介质类型。例如、您可以包括标题 Content-Type: application/astra-appSnap+json 为受管应用程序创建快照时。

## 接受

您可以根据 Astra 资源声明响应中预期内容的特定介质类型。例如、您可以包括标题 Accept: application/astra-appBackup+json 列出受管应用程序的备份时。但是，为了简单起见，工作流中的 curl 样本接受所有介质类型。

## 表示令牌和标识符

在 curl 示例中使用的 API 令牌和其他 ID 值是不透明的，没有明显的含义。因此，为了提高示例的可读性，不会使用实际令牌和 ID 值。而是使用较小的保留关键字，它具有以下几个优势：

- curl 和 JSON 示例更清晰，更易于理解。
- 由于所有关键字都使用相同的格式以及括号和大写字母，因此您可以快速确定要插入或提取的位置和内容。
- 不会丢失任何值，因为无法复制原始参数并将其用于实际部署。

以下是在 curl 示例中使用的一些常见保留关键字。此列表并非详尽无遗，我们会根据需要其他关键字。根据具体情况，其含义应该是显而易见的。

关键字	Type	Description
<account_ID>	路径	用于标识运行 API 操作的帐户的 UUIDv4 值。
<api_token>	标题	标识和授权调用方的令牌。
<APP_ID>	路径	用于标识API调用的应用程序的UUIDv4值。

## 工作流类别

根据您的部署模式，有两大类 Astra 工作流可用。如果您使用的是 Astra 控制中心，则应先从基础架构工作流开始，然后再继续执行管理工作流。使用 Astra Control Service 时，通常可以直接转到管理工作流。



工作流中的 curl 示例使用 Astra 控制服务的 URL。在根据您的环境使用内部 Astra 控制中心时，您需要更改 URL。

## 基础架构 workflow

这些 workflow 用于处理 Astra 基础架构，包括凭据，存储分段和存储后端。Astra 控制中心需要使用这些控制器，但在大多数情况下，也可以与 Astra 控制服务一起使用。这些 workflow 侧重于建立和维护 Astra 受管集群所需的任务。

## 管理工作流

您可以在拥有受管集群后使用这些 workflow。这些 workflow 侧重于应用程序保护和支持操作、例如备份、还原和克隆应用程序。

# 基本 Kubernetes 概念

使用 Astra REST API 时，有几个相关的 Kubernetes 概念。

## 对象

Kubernetes 环境中维护的对象是表示集群配置的永久性实体。这些对象共同描述了系统的状态，包括集群工作负载。

## 命名空间

命名空间提供了一种隔离单个集群中的资源的技术。在划分工作类型，用户类型和资源类型时，此组织结构非常有用。命名空间范围 \_ 的对象在命名空间中必须是唯一的，而具有 \_cluster 范围 \_ 的对象必须在整个集群中是唯一的。

## 标签

标签可以与 Kubernetes 对象关联。它们使用键值对描述属性，并可在集群上强制实施任意组织，这对组织可能有用，但不在核心 Kubernetes 操作范围内。

# 联机API参考

您可以访问 Astra Control REST API 调用的详细信息、包括 HTTP 方法、输入参数和响应。在使用 REST API 开发自动化应用程序时，此完整参考非常有用。



目前，Astra Control 随附了 REST API 参考文档，可在线获取。

## 开始之前

您需要一个 Astra 控制中心或 Astra 控制服务帐户。

## 步骤

1. 使用您的帐户凭据登录到 Astra 。

访问以下站点以获取 Astra 控制服务：["https://astra.netapp.io"](https://astra.netapp.io)

2. 单击页面右上角的图图标并选择 \* API access\* 。
3. 在页面顶部，单击 \* API Documentage\* 下显示的 URL 。



4. 如果出现提示，请重新提供您的帐户凭据。

# 核心 REST 实施

## REST Web 服务

表述性状态传输（Representational State Transfer，REST）是一种用于创建分布式 Web 应用程序的模式。在设计 Web 服务 API 时，它会建立一组用于公开基于服务器的资源并管理其状态的主流技术和最佳实践。虽然 REST 为应用程序开发提供了一致的基础，但每个 API 的详细信息可能因特定设计选项而异。在将 Astra Control REST API 用于实时部署之前，您应了解其特征。

### 资源和状态表示

资源是基于 Web 的系统的基本组件。创建 REST Web 服务应用程序时，早期设计任务包括：

- 识别系统或基于服务器的资源

每个系统都使用和维护资源。资源可以是文件，业务事务，流程或管理实体。在设计基于 REST Web 服务的应用程序时，首先要完成的任务之一是识别资源。

- 资源状态和关联状态操作的定义

资源始终处于数量有限的状态之一。必须明确定义状态以及用于影响状态更改的关联操作。

### URI 端点

必须使用定义明确的寻址方案定义和提供每个 REST 资源。资源所在的端点和标识的端点使用统一资源标识符（Uniform Resource Identifier，URI）。URI 提供了一个通用框架，用于为网络中的每个资源创建唯一名称。统一资源定位器（Uniform Resource Locator，URL）是一种用于 Web 服务的 URI 类型，用于标识和访问资源。资源通常以类似于文件目录的分层结构公开。

### HTTP 消息

超文本传输协议（HTTP）是 Web 服务客户端和服务器用来交换有关资源的请求和响应消息的协议。在设计 Web 服务应用程序时，HTTP 方法会映射到资源以及相应的状态管理操作。HTTP 为无状态。因此，要将一组相关请求和响应关联为一个事务的一部分，必须将追加信息包含在随请求和响应数据流一起提供的 HTTP 标头中。

### JSON 格式化

虽然信息可以通过多种方式在 Web 服务客户端和服务器之间进行结构化和传输，但最受欢迎的选项是 JavaScript 对象表示法（JSON）。JSON 是一种行业标准，用于以纯文本形式表示简单数据结构，并用于传输描述资源的状态信息。Astra Control REST API 使用 JSON 格式化每个 HTTP 请求和响应正文中包含的数据。

## 资源和集合

通过 Astra Control REST API，可以访问资源实例和资源实例集合。



从概念上讲，REST \* 资源 \* 类似于使用面向对象的编程（OOP）语言和系统定义的 \* 对象 \*。有时，这些术语可以互换使用。但一般来说，在外部 REST API 环境中使用时，首选使用 "resource"，而在服务器上存储的相应状态实例数据中使用 "object"。

## Astra 资源的属性

Astra Control REST API 符合 RESTful 设计原则。每个 Astra 资源实例都是根据定义明确的资源类型创建的。一组相同类型的资源实例称为 \* 集合 \*。API 调用会对单个资源或资源集合执行操作。

### 资源类型

Astra Control REST API 附带的资源类型具有以下特征：

- 每个资源类型均使用模式定义（通常在 JSON 中）
- 每个资源架构都包括资源类型和版本
- 资源类型在全局范围内是唯一的

### 资源实例

通过 Astra Control REST API 提供的资源实例具有以下特征：

- 资源实例是根据单个资源类型创建的
- 资源类型使用介质类型值来指示
- 实例由由 Astra 服务维护的有状态数据组成
- 每个实例均可通过一个唯一且长期存在的 URL 进行访问
- 如果某个资源实例可以具有多个表示形式，则可以使用不同的介质类型来请求所需的表示形式

### 资源收集

通过 Astra Control REST API 提供的资源收集具有以下特征：

- 一种资源类型的一组资源实例称为集合
- 资源集合具有一个唯一且长期存在的 URL

### 实例标识符

创建每个资源实例时，系统都会为其分配一个标识符。此标识符是一个 128 位 UUIDv4 值。分配的 UUIDv4 值是全局唯一且不可变的。发出创建新实例的 API 调用后，将向中的调用方返回具有关联 ID 的 URL Location HTTP 响应的标题。在引用资源实例时，您可以提取此标识符并在后续调用中使用它。



资源标识符是用于收集的主密钥。

## Astra 资源的通用结构

每个 Astra Control 资源都使用一个通用结构进行定义。

### 通用数据

每个 Astra 资源都包含下表所示的键值。

密钥	Description
type	一种全局唯一资源类型，称为 * 资源类型 *。
version	一种称为 * 资源版本 * 的版本标识符。
id	一种全局唯一标识符，称为 * 资源标识符 *。
元数据	一个 JSON 对象，包含各种信息，包括用户和系统标签。

#### 元数据对象

每个 Astra 资源附带的元数据 JSON 对象包含下表所示的键值。

密钥	Description
labels	与资源关联的客户端指定标签的 JSON 数组。
creationTimestamp	JSON 字符串，其中包含指示资源创建时间的时间戳。
modificationTimestamp	JSON 字符串，其中包含 ISO-8601 格式的时间戳，用于指示资源上次更改的时间。
已创建	JSON 字符串，其中包含创建资源的用户 ID 的 UUIDv4 标识符。如果资源是由内部系统组件创建的，并且没有与创建实体关联的 UUID，则使用 * 空 * UUID。

#### 资源状态

选定资源 `state` 用于编排生命周期过渡和控制访问的值。

## HTTP 详细信息

Astra Control REST API 使用 HTTP 以及相关参数对资源实例和集合执行操作。下面提供了 HTTP 实施的详细信息。

### API 事务和 CRUD 模型

Astra Control REST API 可实施一个事务模式，其中包含定义明确的操作和状态过渡。

#### 请求和响应 API 事务

每次 REST API 调用都是作为对 Astra 服务的 HTTP 请求执行的。每个请求都会向客户端生成关联的响应。此请求响应对可视为 API 事务。

#### 支持 CRUD 操作模式

通过 Astra Control REST API 提供的每个资源实例和集合均可根据 \* CRU\* 模型进行访问。有四个操作，每个操作都映射到一个 HTTP 方法。这些操作包括：

- 创建
- 读取
- 更新
- 删除

对于某些 Astra 资源，仅支持其中一部分操作。您应查看 ["联机API参考"](#) 有关特定 API 调用的详细信息。

## HTTP 方法

下表显示了 API 支持的 HTTP 方法或动词。

方法	CRUD	Description
获取	读取	检索资源实例或集合的对象属性。在与集合结合使用时，此操作被视为 * 列表 * 操作。
发布	创建	根据输入参数创建新的资源实例。长期URL在中返回 Location 响应标头。
PUT	更新	使用提供的 JSON 请求正文更新整个资源实例。系统会保留用户不可修改的密钥值。
删除	删除	删除现有资源实例。

## 请求和响应标头

下表汇总了与 Astra Control REST API 一起使用的 HTTP 标头。



请参见 ["RFC 7232"](#) 和 ["RFC 7233"](#) 有关详细信息 ...

标题	Type	使用说明
接受	请求	如果此值为 "/" 或未提供、application/json 在 Content-Type 响应标头中返回。如果此值设置为 Astra 资源的介质类型，则内容类型标题中将返回相同的介质类型。
Authorization	请求	包含用户 API 密钥的承载令牌。
内容类型	响应	根据返回 Accept 请求标题。
ETAG	响应	随 RFC 7232 中定义的成功附带。该值是整个 JSON 资源的 MD5 值的十六进制表示形式。
如果匹配	请求	一个前提条件请求标头，如第 3.1 节 RFC 7232 中所述实施，并支持 * PUT * 请求。
if-Modified-since	请求	一个前提条件请求标头，如第 3.4 节 RFC 7232 中所述实施，并支持 * PUT * 请求。
如果未修改，则从	请求	一个前提条件请求标头，如第 3.4 节 RFC 7232 中所述实施，并支持 * PUT * 请求。
位置	响应	包含新创建资源的完整 URL。

## 查询参数

以下查询参数可用于资源收集。请参见 ["使用收集"](#) 有关详细信息 ...

查询参数	Description
包括	包含读取收集时应返回的字段。

查询参数	Description
筛选器	指示读取收集时要返回的资源必须匹配的字段。
订单	确定读取收集时返回的资源的排序顺序。
limit	限制读取集合时返回的最大资源数。
跳过	设置读取集合时要传递和跳过的资源数量。
count	指示是否应在元数据对象中返回资源总数。

## HTTP status codes

下面介绍了 Astra Control REST API 使用的 HTTP 状态代码。



Astra Control REST API 还使用 \* HTTP APIs\* 标准的问题详细信息。请参见 ["诊断和支持"](#) 有关详细信息 ...

代码	含义	Description
200	确定	表示未创建新资源实例的调用成功。
201	已创建	已成功创建对象，并且位置响应标头包含该对象的唯一标识符。
204	No Content	尽管未返回任何内容，但请求成功。
400	请求错误	此请求输入无法识别或不适当。
401	未授权	用户未获得授权，必须进行身份验证。
403	已禁止	由于授权错误，访问被拒绝。
404	未找到	请求中引用的资源不存在。
409	冲突	尝试创建对象失败，因为此对象已存在。
500	内部错误	服务器发生一般内部错误。
503	服务不可用	由于某种原因，此服务尚未准备好处理此请求。

## URL 格式

用于通过 REST API 访问资源实例或集合的 URL 的常规结构由多个值组成。此结构反映了底层对象模型和系统设计。

帐户作为 **root**

指向每个 REST 端点的资源路径的根是 Astra 帐户。因此，URL 中的所有路径都以开头 `/account/{account_id}` 其中：`account_id` 是帐户的唯一 UUIDv4 值。内部结构这反映了一种设计，其中所有资源访问都基于特定帐户。

端点资源类别

Astra 资源端点分为三类：

- 核心 (`/core`)

- 受管应用程序 (/k8s)
- 拓扑 (/topology)

请参见 "[Resources](#)" 有关详细信息 ...

#### 类别版本

这三个资源类别中的每一个都有一个全局版本，用于控制所访问资源的版本。根据约定和定义、移动到资源类别的新主要版本(例如 /v1 to /v2)将在API中引入中断更改。

#### 资源实例或集合

根据是否访问资源实例或集合，可以在路径中使用资源类型和标识符的组合。

#### 示例

- 资源路径

根据上述结构、端点的典型路径为： `/accounts/{account_id}/core/v1/users`。

- 完整的 URL

相应端点的完整URL为：

`https://astra.netapp.io/accounts/{account_id}/core/v1/users`。

# 资源和端点

您可以访问通过Astra Control REST API提供的资源、以自动执行Astra部署。每个资源都可通过一个或多个端点来使用。下面介绍了可在自动化部署中使用的REST资源。



用于访问 Astra Control 资源的路径和完整 URL 的格式基于多个值。请参见 ["URL 格式"](#) 有关详细信息 ...另请参见 ["联机API参考"](#) 有关使用 Astra 资源和端点的更多详细信息。

## Astra Control REST 资源摘要

Astra Control REST API 中提供的主要资源端点分为三类。除了需要说明的情况外，可以使用一整套 CRUD 操作（创建，读取，更新，删除）来访问每个资源。

- 版本 \* 列表示首次引入资源时的 Astra 版本。对于最近添加到REST API的资源、此字段为粗体。

### 核心资源

核心资源端点可提供建立和维护 Astra 运行时环境所需的基础服务。

资源	版本。	Description
Account	21.12	通过帐户资源，您可以管理多租户 Astra Control 部署环境中的隔离租户。
ASUP	21.08.	ASUP 资源表示转发给 NetApp 支持部门的 AutoSupport 捆绑包。
证书	22.08.	证书资源表示已安装的用于对传出连接进行强身份验证的证书。
凭据	21.04	凭据资源包含可用于 Astra 用户，集群，分段和存储后端的安全相关信息。
授权	21.08.	授权资源表示根据活动许可证和订阅可供帐户使用的功能和容量。
事件	21.04	事件资源表示系统中发生的所有事件，包括归类为通知的子集。
执行钩	21.12	执行钩资源表示自定义脚本，您可以在执行受管应用程序的快照之前或之后运行这些脚本。
功能	21.08.	这些功能资源表示选定的 Astra 功能，您可以查询这些功能来确定它们是否已在系统中启用。访问权限仅限于只读。
组	22.08.	组资源表示Astra组和关联资源。当前版本仅支持LDAP组。
挂钩源	21.12	hook 源资源表示与执行 hook 一起使用的实际源代码。将源代码与执行控制分开具有多种优势，例如允许共享脚本。
LDAP组	。 <b>22.11</b>	您可以列出已配置的LDAP服务器中的组。对LDAP组的访问是只读的。
LDAP用户	。 <b>22.11</b>	您可以列出已配置的LDAP服务器中的用户。对LDAP用户的访问是只读的。
许可证	21.08.	许可证资源表示可用于 Astra 帐户的许可证。
通知	21.04	通知资源表示具有通知目标的 Astra 事件。访问权限按用户提供。
软件包	22.04	软件包资源用于注册和访问软件包定义。软件包由多个组件组成，包括文件，映像和其他项目。
角色绑定	21.04	角色绑定资源表示特定用户对和帐户之间的关系。除了这两者之间的链接之外，还会通过特定角色为每个指定一组权限。



资源	版本。	Description
正在设置 ...	21.08.	设置资源表示一组密钥值对，用于描述特定 Astra 帐户的功能。
订阅。	21.08.	订阅资源表示 Astra 帐户的活动订阅。
任务	。 22.11	任务资源提供对受管任务的只读访问权限、并可用于显示内部长时间运行的任务的状态。
令牌	21.04	令牌资源表示可通过编程方式访问 Astra Control REST API 的令牌。
未读通知	21.04	未读通知资源表示已分配给特定用户但尚未读取的通知。
升级	22.04	通过升级资源，您可以访问软件组件并启动升级。
用户	21.04	用户资源表示 Astra 用户能够根据其定义的角色访问系统。

## 受管应用程序资源

通过受管应用程序资源端点，可以访问受管 Kubernetes 应用程序。

资源	版本。	Description
应用程序资产	21.04	应用程序资产资源表示管理 Astra 应用程序所需的内部状态信息集合。
应用程序备份	21.04	应用程序备份资源表示受管应用程序的备份。
应用程序快照	21.04	应用程序快照资源表示受管应用程序的快照。
执行挂机覆盖	21.12	使用执行挂钩覆盖资源，您可以根据需要为特定应用程序禁用预加载的 NetApp 默认执行挂钩。
计划	21.04	计划资源表示在数据保护策略中为受管应用程序计划的数据保护操作。

## 拓扑资源

通过拓扑资源端点可以访问非受管应用程序和存储资源。

资源	版本。	Description
API资源	。 22.11	API资源端点提供对特定受管集群中Kubernetes资源的只读访问权限。
应用程序	21.04	应用程序资源表示所有 Kubernetes 应用程序，包括那些不受 Astra 管理的应用程序。
AppMirror	22.08.	AppMirror资源表示用于管理应用程序镜像关系的AppMirror资源。
存储分段	21.08.	存储分段资源表示用于存储由 Astra 管理的应用程序备份的 S3 云分段。
云	21.08.	云资源表示 Astra 客户端为管理集群和应用程序而可以连接到的云。
集群	21.08.	集群资源表示不受 Kubernetes 管理的 Kubernetes 集群。
集群节点	21.12	集群节点资源允许您访问 Kubernetes 集群中的各个节点，从而提供额外的解析。
受管集群	21.08.	受管集群资源表示当前由 Kubernetes 管理的 Kubernetes 集群。
命名空间	21.12	命名空间资源用于访问 Kubernetes 集群中使用的命名空间。
存储后端	21.08.	存储后端资源表示可由 Astra 管理的集群和应用程序使用的存储服务提供商。

资源	版本。	Description
存储类	21.08.	存储类资源表示已发现并可供特定受管集群使用的不同存储类或类型。
Volume	21.04	卷资源表示与受管应用程序关联的 Kubernetes 存储卷。

## 其他资源和端点

您可以使用多种其他资源和端点来支持 Astra 部署。



这些资源和端点当前未包含在 Astra Control REST API 参考文档中。

### OpenAPI

通过 OpenAPI 端点可以访问当前的 OpenAPI JSON 文档和其他相关资源。

### OpenMetrics

通过 OpenMetrics 端点，您可以通过 OpenMetrics 资源访问帐户指标。Astra 控制中心部署模式支持此功能。

# 其他使用注意事项

## RBAC 安全性

Astra REST API支持基于角色的访问控制(Role-Based Access Control、RBAC)来授予和限制对系统功能的访问权限。

### Astra 角色

每个 Astra 用户都分配有一个角色，用于确定可执行的操作。这些角色按层次结构进行排列，如下表所述。

Role	Description
所有者	具有管理员角色的所有权限，并且还可以删除 Astra 帐户。
管理员	具有成员角色的所有权限，并且还可以邀请用户加入帐户。
成员	可以全面管理 Astra 应用程序和计算资源。
查看器	仅限查看资源。

### 具有命名空间粒度的增强型 RBAC



此功能是在 Astra REST API 22.04 版中引入的。

为特定用户建立角色绑定后，可以应用一个限制来限制用户有权访问的命名空间。可通过多种方法定义此限制，如下表所述。请参见参数 `roleConstraints` 有关详细信息、请参见角色绑定API。

命名空间	Description
全部	用户可以通过通配符参数 "*" 访问所有命名空间。这是保持向后兼容性的默认值。
无	尽管约束列表为空，但仍会指定此限制列表。这表示用户无法访问任何命名空间。
命名空间列表	包含命名空间的 UUID，这会将用户限制为单个命名空间。此外，还可以使用逗号分隔列表来访问多个命名空间。
Label	指定了一个标签，并允许访问所有匹配的命名空间。

## 使用收集

Astra Control REST API 提供了多种不同的方法来通过定义的查询参数访问资源收集。

### 选择值

您可以使用为每个资源实例指定应返回的键值对 `include` 参数。所有实例都会在响应正文中返回。

### 筛选

通过收集资源筛选，API 用户可以指定条件，以确定是否在响应正文中返回资源。。 `filter` 参数用于指示筛选条件。

## 排序

通过收集资源排序，API 用户可以在响应正文中指定资源的返回顺序。。 `orderBy` 参数用于指示筛选条件。

## 分页

您可以通过使用限制为请求返回的资源实例数来强制执行分页 `limit` 参数。

## 计数

如果包括布尔参数 `count` 设置为 `true`、给定响应的返回数组中的资源数量在元数据部分提供。

# 诊断和支持

Astra Control REST API 提供了多种支持功能，可用于诊断和调试。

## API resources

API 资源提供了多种可提供诊断信息和支持的 Astra 功能。

Type	Description
事件	在 Astra 处理过程中记录的系统活动。
通知	被视为足够重要的一小部分事件，可提供给用户。
未读通知	用户尚未读取或检索的通知。

# 撤消 API 令牌

您可以在 Astra Web 界面上撤消不再需要的 API 令牌。

## 开始之前

您需要一个 Astra 帐户。您还应确定要撤消的令牌。

## 关于此任务

令牌撤消后，它将立即永久不可用。

## 步骤

1. 使用您的帐户凭据登录到 Astra 。

访问以下站点以获取 Astra 控制服务：["https://astra.netapp.io"](https://astra.netapp.io)

2. 单击页面右上角的图图标并选择 \* API access\* 。
3. 选择要撤消的一个或多个令牌。
4. 在 \* 操作 \* 下拉框下，单击 \* 撤消令牌 \* 。

# 基础架构 workflow

## 开始之前

您可以使用这些 workflow 创建和维护用于 Astra Control Center 部署的基础架构。在许多情况下、这些 workflow 也可以与 Astra Control Service 结合使用。



NetApp 可以随时扩展和改进这些 workflow，因此您应定期查看这些 workflow。

### 一般准备

在使用任何 Astra workflow 之前，请务必查看 ["准备使用这些 workflow"](#)。

### workflow 类别

基础架构 workflow 按不同类别进行组织，以便更容易找到所需的工作流。

类别	Description
身份和访问	通过这些 workflow，您可以管理身份以及如何访问 Astra。这些资源包括用户，凭据和令牌。
LDAP 配置	您可以选择将 Astra 控制中心配置为使用 LDAP 对选定用户进行身份验证。
集群	您可以添加受管 Kubernetes 集群，以便保护和支撑这些集群所包含的应用程序。
云	通过这些 workflow、可以访问通过 Astra Control REST API 提供的云。
存储分段	您可以使用这些 workflow 创建和管理用于存储备份的 S3 存储分段。
存储	通过这些 workflow，您可以添加和维护存储后端和卷。

## 身份和访问

### 列出用户

您可以列出为特定 Astra 帐户定义的用户。

#### 1. 列出用户

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /core/v1/users

#### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
包括	查询	否	也可以选择要在响应中返回的值。

**curl 示例：返回所有用户的所有数据**

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

**curl 示例：返回所有用户的名字，姓氏和 ID**

```
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 输出示例**

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

## 创建用户

您可以使用特定凭据和预定义角色创建用户。您也可以选择限制用户对特定命名空间的访问。

### 1. 选择用户名

执行工作流 ["列出用户"](#) 并选择当前未使用的可用名称。

## 2.创建用户

执行以下REST API调用以创建用户。成功完成调用后、新用户将无法使用。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/users

### JSON 输入示例

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

### curl 示例

```
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 输出示例

```

{
  "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. 也可以选择允许的命名空间

执行工作流 ["列出命名空间"](#) 并选择要限制访问的命名空间。

### 4. 将用户绑定到角色

执行以下REST API调用以将用户绑定到角色。以下示例对命名空间访问没有任何限制。请参见 ["具有命名空间粒度的增强型 RBAC"](#) 有关详细信息 ...

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/roleBindings



## JSON 输入示例

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

## curl 示例

```
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.创建凭据

执行以下REST API调用以创建凭据并将其与用户关联。此示例使用作为base64值提供的密码。。 name 属性应包含上一步返回的用户的ID。输入属性 change 还必须在base64中进行编码、并确定用户是否必须在首次登录时更改其密码(true 或 false) 。



只有使用本地身份验证部署Astra控制中心时、才需要执行此步骤。使用LDAP部署Astra控制中心或部署Astra控制服务时不需要此功能。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/credentials

## JSON 输入示例

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

## curl 示例

```
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 配置

## 准备LDAP配置

您可以选择将Astra控制中心与轻型目录访问协议(Lightweight Directory Access Protocol、LDAP)服务器集成、以便为选定的Astra用户执行身份验证。LDAP是一种用于访问分布式目录信息的行业标准协议、也是企业身份验证的常见选择。

### 相关信息

- ["LDAP技术规格路线图"](#)
- ["LDAP版本3"](#)

### 实施过程概述

总体而言、要配置LDAP服务器以为Astra用户提供身份验证、需要执行几个步骤。



尽管下面介绍的步骤是按顺序执行的、但在某些情况下、您可以按不同顺序执行这些步骤。例如、您可以在配置LDAP服务器之前定义Astra用户和组。

1. 请查看 ["要求和限制"](#) 了解选项、要求和限制。
2. 选择LDAP服务器和所需的配置选项(包括安全性)。
3. 执行工作流 ["将Astra配置为使用LDAP服务器"](#) 将Astra与LDAP服务器集成。
4. 查看LDAP服务器上的用户和组、确保它们定义正确。
5. 在中执行相应的工作流 ["将LDAP条目添加到Astra"](#) 确定要使用LDAP进行身份验证的用户。

### 要求和限制

在将Astra配置为使用LDAP进行身份验证之前、您应查看下面介绍的Astra配置要点、包括限制和配置选项。

#### 仅支持Astra控制中心

Astra Control平台提供了两种部署模式。只有Astra控制中心部署才支持LDAP身份验证。

#### 使用REST API或Web用户界面进行配置

当前版本的Astra控制中心支持使用Astra Control REST API以及Astra Web用户界面配置LDAP身份验证。

#### 需要LDAP服务器

要接受和处理Astra身份验证请求、您必须具有LDAP服务器。当前版本的Astra控制中心支持Microsoft的Active

Directory。

### 与LDAP服务器的安全连接

在Astra中配置LDAP服务器时、您可以选择定义安全连接。在这种情况下、LDAPS协议需要证书。

### 配置用户或组

您需要选择要使用LDAP进行身份验证的用户。为此、您可以确定各个用户或一组用户。必须在LDAP服务器上定义这些帐户。它们还需要在Astra (类型为LDAP)中进行标识、这样可以将身份验证请求转发到LDAP。

### 绑定用户或组时的角色限制

在当前版本的Astra控制中心中、是唯一支持的值 `roleConstraint` 为"\*"。这表示用户不受限于一组有限的命名空间、并且可以访问所有命名空间。请参见 ["将LDAP条目添加到Astra"](#) 有关详细信息 ...

### LDAP凭据

LDAP使用的凭据包括用户名(电子邮件地址)和关联的密码。

### 唯一电子邮件地址

在Astra控制中心部署中用作用户名的所有电子邮件地址都必须是唯一的。您不能添加电子邮件地址已定义为Astra的LDAP用户。如果存在重复的电子邮件、您需要先从Astra中将其删除。请参见 ["删除用户"](#) 有关详细信息、请访问Astra控制中心文档站点。

### 也可以先定义LDAP用户和组

您可以将LDAP用户和组添加到Astra控制中心、即使它们尚未位于LDAP中或未配置LDAP服务器也是如此。这样、您可以在配置LDAP服务器之前预先配置用户和组。

### 在多个LDAP组中定义的用户

如果某个LDAP用户属于多个LDAP组、并且在Astra中为这些组分配了不同的角色、则用户在进行身份验证时的有效角色将获得最大的特权。例如、如果为用户分配了 `viewer` 角色与`group1`具有、但具有 `member` 用户在`group2`中的角色 `member`。这基于Astra使用的层次结构(从高到低):

- 所有者
- 管理员
- 成员
- 查看器

### 定期同步帐户

Astra大约每60秒就会将其用户和组与LDAP服务器同步一次。因此、如果将用户或组添加到LDAP或从LDAP中删除、则可能需要长达一分钟的时间、才能在Astra中使用该用户或组。

### 禁用并重置LDAP配置

在尝试重置LDAP配置之前、必须先禁用LDAP身份验证。此外、还可以更改LDAP服务器 (`connectionHost`)、则需要同时执行这两个操作。请参见 ["禁用并重置LDAP"](#) 有关详细信息 ...

### REST API参数

LDAP配置工作流会调用REST API来完成特定任务。每个API调用都可以包括输入参数、如提供的示例所示。请参见 ["联机API参考"](#) 有关如何查找参考文档的信息。

## 将Astra配置为使用LDAP服务器

您需要选择LDAP服务器并将Astra配置为使用该服务器作为身份验证提供程序。配置任务包括以下步骤。每个步骤都包括一个REST API调用。

### 1. 添加CA证书

执行以下REST API调用、将CA证书添加到Astra。



此步骤是可选的、只有当您希望Astra和LDAP通过使用LDAPS的安全通道进行通信时、才需要执行此步骤。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/certificates

### JSON 输入示例

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "certUse": "rootCA",
  "cert": "LS0tLS1CRUdJTtiBDRVJUSUZJQ0FURSB0tLS0tCk1JSUMyVEN",
  "isSelfSigned": "true"
}
```

有关输入参数、请注意以下事项：

- cert 是一个JSON字符串、其中包含base64编码的PKCS-11格式证书(PEM编码)。
- isSelfSigned 应设置为 true 证书是自签名的。默认值为 false。

### curl 示例

```
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响应示例

```

{
  "type": "application/astra-certificate",
  "version": "1.0",
  "id": "a5212e7e-402b-4cff-bba0-63f3c6505199",
  "certUse": "rootCA",
  "cert": "LS0tLS1CRUdJTlBDRVJUSUZJQ0FURS0tLS0tCk1JSUMyVEN",
  "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. 添加绑定凭据

执行以下REST API调用以添加绑定凭据。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/credentials

### JSON 输入示例

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

有关输入参数、请注意以下事项：

- bindDn 和 password 是LDAP管理员用户的base64编码绑定凭据、可以连接和搜索LDAP目录。 bindDn 是LDAP用户的电子邮件地址。

### curl 示例

```
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响应示例

```
{
  "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"
  }
}
```

请注意以下响应参数：

- `id` 的凭据将在后续工作流步骤中使用。

### 3.检索LDAP设置的UUID

执行以下REST API调用以检索的UUID `astra.account.ldap` Astra控制中心附带的设置。



以下cURL示例使用查询参数筛选设置收集。您可以改为删除筛选器以获取所有设置、然后搜索 `astra.account.ldap`。

HTTP 方法	路径
获取	<code>/accounts/ {account_id} /core/v1/settings</code>

#### curl 示例

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

#### JSON响应示例

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

## 4.更新LDAP设置

执行以下REST API调用以更新LDAP设置并完成配置。使用 `id` 上一次API调用中的值 `<SETTING_ID>` 以下URL路径中的值。



您可以先对特定设置的GET请求进行问题描述 处理、以查看configSchema。此操作将提供有关配置中所需字段的详细信息。

HTTP 方法	路径
PUT	/accounts/ {account_id} /core/v1/settings/ {setting_id}

### JSON 输入示例

```
{
  "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"
  }
}
```

有关输入参数、请注意以下事项：

- `isEnabled` 应设置为 `true` 或者可能发生错误。
- `credentialId` 是先前创建的绑定凭据的ID。
- `secureMode` 应设置为 `LDAP` 或 `LDAPS` 根据上一步中的配置。
- 仅支持使用"Active Directory"作为供应商。

### curl 示例

```
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>'
```

如果调用成功、则返回HTTP 204响应。



## 5.检索LDAP设置

您可以选择执行以下REST API调用来检索LDAP设置并确认更新。

HTTP 方法	路径
获取	/accounts/ {account_id} /core/v1/settings/ {setting_id}

### curl 示例

```
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响应示例

```
{
  "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": {}
}

```

找到 state 字段中的值、该值将包含下表中的一个值。

State	Description
待定	配置过程仍处于活动状态、尚未完成。
valid	已成功完成配置、然后 currentConfig 在响应中匹配 desiredConfig。
error	LDAP配置过程失败。

## 将LDAP条目添加到Astra

将LDAP配置为Astra控制中心的身份验证提供程序后、您可以选择Astra将使用LDAP凭据进行身份验证的LDAP用户。每个用户都必须在Astra中具有一个角色、然后才能通过Astra Control REST API访问Astra。

您可以通过两种方式配置Astra来分配角色。选择适合您的环境的选项。

- "添加并绑定单个用户"
- "添加和绑定组"



LDAP凭据以用户名作为电子邮件地址以及关联的LDAP密码的形式提供。

## 添加并绑定单个用户

您可以为每个Astra用户分配一个角色、该角色将在LDAP身份验证后使用。如果用户数量较少、并且每个用户的管理特征可能不同、则这种做法是合适的。

### 1. 添加用户

执行以下REST API调用、将用户添加到Astra并指示LDAP是身份验证提供程序。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/users

### JSON 输入示例

```
{
  "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"
}
```

有关输入参数、请注意以下事项：

- 需要以下参数：
  - authProvider
  - authID
  - email
- authID 是LDAP中用户的可分辨名称(DN)
- email 对于在Astra中定义的所有用户、必须是唯一的

如果 email 值不唯一、发生错误、响应中返回409个HTTP状态代码。

### curl 示例

```
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响应示例

```
{
  "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.为用户添加角色绑定

执行以下REST API调用以将用户绑定到特定角色。您需要具有上一步中创建的用户UUID。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/roleBindings

### JSON 输入示例

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

有关输入参数、请注意以下事项：

- 上述用于的值 `roleConstraint` 是当前版本的Astra唯一可用的选项。它表示用户不受限于一组有限的命名空间、并且可以访问所有这些命名空间。

### curl 示例

```
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响应示例

```

{
  "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": ["*"]
}

```

请注意以下有关响应参数的信息：

- 值 user。principalType 字段指示已为用户(而不是组)添加角色绑定。

## 添加和绑定组

您可以为Astra组分配一个角色、该角色将在LDAP身份验证后使用。如果用户数量很多、并且每个用户都可能具有类似的管理特征、则这种做法是合适的。

### 1.添加组

执行以下REST API调用、将组添加到Astra并指示LDAP是身份验证提供程序。

HTTP 方法	路径
发布	/accouns/ {account_id} /core/v1/groups

### JSON 输入示例

```

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

```

有关输入参数、请注意以下事项：

- 需要以下参数：
  - authProvider
  - authID

### curl 示例

```
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响应示例

```
{
  "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.为组添加角色绑定

执行以下REST API调用以将组绑定到特定角色。您需要具有上一步中创建的组的UUID。在LDAP执行身份验证后、属于组成员的用户将能够登录到Astra。

HTTP 方法	路径
发布	/accouns/ {account_id} /core/v1/roleBindings

### JSON 输入示例



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

有关输入参数、请注意以下事项：

- 上述用于的值 `roleConstraint` 是当前版本的Astra唯一可用的选项。它表示用户不受特定命名空间的限制、并且可以访问所有命名空间。

### curl 示例

```
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响应示例

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

请注意以下有关响应参数的信息：

- 值 `group`。 `principalType` 字段指示已为组(而不是用户)添加角色绑定。

## 禁用并重置LDAP

您可以根据需要为Astra控制中心部署执行两项可选的相关管理任务。您可以全局禁用LDAP身份验证并重置LDAP配置。

这两个工作流任务都需要的ID `astra.account.ldap` Astra设置。有关如何检索设置ID的详细信息、请参见\*配置LDAP服务器\*。请参见 ["检索LDAP设置的UUID"](#) 有关详细信息 ...

- ["禁用LDAP身份验证"](#)
- ["重置LDAP身份验证配置"](#)

### 禁用LDAP身份验证

您可以执行以下REST API调用来全局禁用特定Astra部署的LDAP身份验证。此调用将更新 `astra.account.ldap` 设置和 `isEnabled` 值设置为 `false`。

HTTP 方法	路径
PUT	<code>/accounts/ {account_id} /core/v1/settings/ {setting_id}</code>

### JSON 输入示例

```
{
  "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>'
```

如果调用成功、则会显示 HTTP 204 返回响应。您可以选择再次检索配置设置以确认更改。

## 重置LDAP身份验证配置

您可以执行以下REST API调用以断开Astra与LDAP服务器的连接、并在Astra中重置LDAP配置。此调用将更新 `astra.account.ldap` 设置和值 `connectionHost` 已清除。

的值 `isEnabled` 此外、还必须设置为 `false`。您可以在进行重置调用之前设置此值、也可以在进行重置调用时设置此值。在第二种情况下、`connectionHost` 应清除和 `isEnabled` 在同一重置调用中设置为`false`。



此操作会造成系统中断、您应谨慎操作。它会删除所有已导入的LDAP用户和组。它还会删除您在Astra控制中心中创建的所有相关Astra用户、组和`roleBindings` (LDAP类型)。

HTTP 方法	路径
PUT	<code>/accounts/ {account_id} /core/v1/settings/ {setting_id}</code>

## JSON 输入示例

```
{
  "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"
  }
}
```

请注意以下事项:

- 要更改LDAP服务器、必须同时禁用和重置LDAP更改 `connectHost` 设置为空值、如上例所示。

```
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>'
```

如果调用成功、则会显示 HTTP 204 返回响应。您也可以选择重新检索配置以确认更改。

# 集群

## 列出集群

您可以列出特定云中的可用集群。

### 1. 选择云

执行工作流 ["列出云"](#) 并选择包含集群的云。

### 2. 列出集群

执行以下REST API调用以列出特定云中的集群。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/cloud / {clune_id} /集群

**curl** 示例：返回所有集群的所有数据

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

## JSON 输出示例

```
{
  "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",
    "postgresql",
    "trident"
  ],
  "defaultStorageClass": "4bacbb3c-0727-4f58-b13c-3a2a069baf89",
  "cloudID": "4f1e1086-f415-4451-a051-c7299cd672ff",
  "credentialID": "7ffd7354-b6c2-4efa-8e7b-cf64d5598463",
  "isMultizonal": "false",
  "tridentManagedStateAllowed": [
    "unmanaged"
  ],
  "tridentVersion": "22.10.0",
  "apiServiceID": "98df44dc-2baf-40d5-8826-e198b1b40909",
  "metadata": {
    "labels": [
      {

```

```
        "name": "astra.netapp.io/labels/read-only/cloudName",
        "value": "private"
      }
    ],
    "creationTimestamp": "2022-11-03T15:50:59Z",
    "modificationTimestamp": "2022-11-04T14:42:32Z",
    "createdBy": "00000000-0000-0000-0000-000000000000"
  }
}
]
```

## 使用凭据添加集群

您可以添加一个集群、使其可由Astra管理。从Astra 22.11版开始、您可以添加同时包含Astra控制中心和Astra控制服务的集群。



使用主要云提供商之一(AKS、EKS、GKE)提供的Kubernetes服务时、不需要添加集群。

### 1.获取kubecfg文件

您需要从Kubernetes管理员或服务处获取一份\* kubecfg\*文件副本。

### 2.准备kubecfg文件

在使用\* kubecfg\*文件之前、应执行以下操作：

将文件从YAML格式转换为JSON

如果您收到格式为YAML的kubecfg文件、则需要将其转换为JSON。

在base64中对JSON进行编码

必须在base64中对JSON文件进行编码。例如：

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

### 3.选择云

执行 workflow "列出云" 并选择要添加集群的云。



您只能选择\*私有\*云。

### 4.创建凭据

执行以下REST API调用以使用kubecfg文件创建凭据。

HTTP 方法	路径
发布	/accounts/ {account_id} /core/v1/credentials

### JSON 输入示例

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

### curl 示例

```
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. 添加集群

执行以下REST API调用以将集群添加到云。的值 `credentialID` 输入字段是从上一步中的REST API调用获取的。

HTTP 方法	路径
发布	/accounts/ {account_id} /topology/v1/cloud / {clune_id} /集群

### JSON 输入示例

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

### curl 示例



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

## 列出受管集群

您可以列出当前由 Astra 管理的 Kubernetes 集群。

### 1. 列出受管集群

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/managedClusters

**curl** 示例：返回所有集群的所有数据

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

## 管理集群

您可以管理 Kubernetes 集群、以便执行数据保护。

### 1. 选择要管理的集群

执行工作流 ["列出集群"](#) 并选择所需的集群。属性 managedState 的集群必须为 unmanaged。

### 2. 也可以选择存储类

也可以执行工作流 ["列出存储类"](#) 并选择所需的存储类。



如果在管理集群的调用中未提供存储类、则会使用默认存储类。

### 3. 管理集群

执行以下 REST API 调用以管理集群。

HTTP 方法	路径
发布	/accounts/ {account_id} /topology/v1/managedClusters

## JSON 输入示例

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

## curl 示例

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

# 云

## 列出云

您可以列出特定Astra帐户定义和可用的云。

### 1.列出云

执行以下REST API调用以列出云。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/Clouds

**curl**示例：返回所有云的所有数据

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

# 存储分段

## 列出分段

您可以列出为特定 Astra 帐户定义的 S3 存储分段。

## 1. 列出分段

执行以下REST API调用以列出分段。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/bass桶

**curl** 示例：返回所有存储分段的所有数据

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

# 存储

## 列出存储类

您可以列出可用的存储类。

### 1. 选择云

执行工作流 ["列出云"](#) 并选择要使用的云。

### 2. 选择集群

执行工作流 ["列出集群"](#) 并选择集群。

### 3. 列出特定集群的存储类

执行以下REST API调用以列出特定集群和云的存储类。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/clones/clones/clusters/storageClasses.<CLUSTER_ID><CLOUD_ID>

**curl**示例：返回所有存储类的所有数据

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

## JSON 输出示例

```

{
  "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": []
    }
  }
]
}

```

## 列出存储后端

您可以列出可用的存储后端。

### 1. 列出后端

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/storageBackend

**curl** 示例：返回所有存储后端的所有数据

```

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

```

## JSON 输出示例

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

# 管理工作流

## 开始之前

您可以在管理Astra受管集群中的应用程序时使用这些工作流。



NetApp 可以随时扩展和改进这些工作流，因此您应定期查看这些工作流。

### 一般准备

在使用任何 Astra 工作流之前，请务必查看 ["准备使用这些工作流"](#)。

### 工作流类别

管理工作流按不同类别进行组织，以便更容易找到所需的工作流。

类别	Description
应用程序控制	通过这些工作流，您可以控制受管应用程序和非受管应用程序。您可以列出应用程序以及创建和删除受管应用程序。
应用程序保护	您可以使用这些工作流通过快照和备份保护受管应用程序。
克隆和还原应用程序	这些工作流介绍了如何克隆和还原受管应用程序。
支持	有多个工作流可用于调试和支持您的应用程序以及常规 Kubernetes 环境。

### 其他注意事项

使用管理工作流时，还需要注意一些其他注意事项。

#### 克隆应用程序

克隆应用程序时，需要考虑一些事项。以下所述参数是 JSON 输入的一部分。

#### 源集群标识符

的值 `sourceClusterID` 始终标识安装原始应用程序的集群。

#### 集群标识符

的值 `clusterID` 标识要安装新应用程序的集群。

- 在同一集群中克隆时、`clusterID` 和 `sourceClusterID` 具有相同的值。
- 在集群间克隆时、这两个值与不同 `clusterID` 应为目标集群的ID。

#### 命名空间

。 `namespace` 值必须与原始源应用程序不同。此外，克隆的命名空间不存在，Astra 将创建它。

## 备份和快照

您可以选择使用从现有备份或快照克隆应用程序 `backupID` 或 `snapshotID` parameters 如果不提供备份或快照，则 Astra 将首先创建应用程序的备份，然后从备份中克隆。

## 还原应用程序

以下是还原应用程序时需要考虑的几个事项。

- 还原应用程序与克隆操作非常相似。
- 还原应用程序时，您必须提供备份或快照。

# 应用程序控制

## 列出应用程序

您可以列出当前由 Astra 管理的应用程序。您可以在查找特定应用程序的快照或备份时执行此操作。

### 1. 列出应用程序

执行以下 REST API 调用。

HTTP 方法	路径
获取	/account/ {account_id} /k8s/v2/apps

## 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
包括	查询	否	也可以选择要在响应中返回的值。

### curl 示例：返回所有应用程序的所有数据

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

### curl 示例：返回所有应用程序的名称，ID 和状态

```
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 输出示例

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

## 获取应用程序

您可以检索描述单个应用程序的所有资源变量。

开始之前

您必须具有要检索的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

### 1. 获取应用程序

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /k8s/v2/apps/ {app_id}

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	要检索的应用程序的ID值。

**curl 示例：**返回应用程序的所有数据

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

## 管理应用程序

您可以基于Astra已知的应用程序在特定命名空间中创建托管应用程序。在将应用程序管理或定义到Astra后、您可以通过创建备份和快照来对其进行保护。

### 1.选择命名空间

执行工作流 ["列出命名空间"](#) 并选择命名空间。

### 2.选择集群

执行工作流 ["列出集群"](#) 并选择集群。

### 3.管理应用程序

执行以下REST API调用以管理此应用程序。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v2/apps

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
JSON	body	是的。	提供确定要管理的应用程序所需的参数。请参见以下示例。

### JSON 输入示例

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

### curl 示例：管理应用程序

```
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
```

## 取消管理应用程序

您可以删除不再需要的受管应用程序。删除受管应用程序也会删除关联的计划。

开始之前

您必须具有要取消管理的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

删除应用程序时，不会自动删除其备份和快照。如果您不再需要备份和快照，应在删除应用程序之前将其删除。

### 1. 非受管应用程序

执行以下REST API调用以删除此应用程序。

HTTP 方法	路径
删除	/accounts/ {account_id} /k8s/v2/apps/ {app_id}

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识要删除的应用程序。

### curl 示例：删除受管应用程序

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

## 应用程序保护

### 列出快照

您可以列出为特定应用程序创建的快照。

开始之前

您必须具有要列出其快照的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

## 1. 列出快照

执行以下REST API调用以列出快照。

HTTP 方法	路径
获取	/accounts/ {account_id} /k8s/v1/apps/ {app_id} /appSaps

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识拥有列出快照的应用程序。
count	查询	否	条件 count=true 快照数量包括在响应的元数据部分中。

### curl 示例：返回应用程序的所有快照

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

### curl 示例：返回应用程序和计数的所有快照

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

### JSON 输出示例

```

{
  "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": {}
}

```

## 列出备份

您可以列出为特定应用程序创建的备份。

开始之前

您必须具有要列出备份的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

### 1. 列出备份

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /k8s/v1/apps/ {app_id} /appBackups

其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识拥有列出备份的受管应用程序。

## curl 示例：返回应用程序的所有备份

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

## JSON 输出示例

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

## 为应用程序创建快照

您可以为特定应用程序创建快照。

开始之前

您必须具有要为其创建快照的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

### 1. 创建快照

执行以下 REST API 调用。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v1/apps/ {app_id} /appSaps

其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识要创建快照的受管应用程序。
JSON	body	是的。	提供快照的参数。请参见以下示例。

### JSON 输入示例

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

### curl 示例：为应用程序创建快照

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

## 为应用程序创建备份

您可以为特定应用程序创建备份、然后使用此备份还原或克隆此应用程序。

开始之前

您必须具有要备份的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。

## 1. 创建备份

执行以下 REST API 调用。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v1/apps/ {app_id} /appBackups

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识要创建备份的应用程序。
JSON	body	是的。	提供备份的参数。请参见以下示例。

### JSON 输入示例

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

### curl 示例：为应用程序创建备份

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

## 删除快照

您可以删除与应用程序关联的快照。

开始之前

您必须具备以下条件：

- 拥有快照的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。
- 要删除的快照的 ID 。如果需要，您可以使用此工作流 ["列出快照"](#) 以查找快照。



## 1. 删除快照

执行以下 REST API 调用。

HTTP 方法	路径
删除	/accounts/ {account_id} /K8s/v1/apps/ {app_id} /appSnaps/ {appsnap_id}

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识拥有快照的受管应用程序。
Snapshot ID	路径	是的。	标识要删除的快照。

### curl 示例：删除应用程序的单个快照

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

## 删除备份

您可以删除与应用程序关联的备份。

开始之前

您必须具备以下条件：

- 拥有备份的应用程序的ID。如果需要，您可以使用此工作流 ["列出应用程序"](#) 以查找应用程序。
- 要删除的备份的 ID。如果需要，您可以使用此工作流 ["列出备份"](#) 以查找快照。

## 1. 删除备份

执行以下 REST API 调用。



您可以使用可选的请求标头强制删除失败的备份，如下所述。

HTTP 方法	路径
删除	/accounts/ {account_id} /K8s/v1/apps/ {app_id} /appBackups/ {appBackup_id}

## 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
应用程序ID	路径	是的。	标识拥有备份的受管应用程序。
备份 ID	路径	是的。	标识要删除的备份。
强制删除	标题	否	用于强制删除失败的备份。

### curl 示例：删除应用程序的单个备份

```
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 示例：使用 force 选项删除应用程序的单个备份

```
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'
```

## 创建数据保护策略

您可以根据一个或多个计划创建数据保护策略。

### 1. 选择应用程序

执行工作流 ["列出应用程序"](#) 并选择所需的应用程序。

### 2. 创建保护

执行以下 REST API 调用、为特定应用程序创建保护策略。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v1/apps/ {app_id} /计划

### JSON 输入示例

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

### curl 示例

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

## 克隆和还原应用程序

### 克隆应用程序

您可以通过克隆现有应用程序来创建新应用程序。

开始之前

请注意以下有关此工作流的信息：

- 未使用应用程序备份或快照
- 克隆操作在同一集群中执行
- 新应用程序将放置在其他命名空间中



要将应用程序克隆到其他集群、您需要更新 `clusterId` JSON输入中适合您环境的参数。

#### 1. 选择要克隆的应用程序

执行工作流 ["列出应用程序"](#) 并选择要克隆的应用程序。用于克隆应用程序的 REST 调用需要多个资源值。

#### 2. 克隆应用程序

执行以下 REST API 调用以克隆此应用程序。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v2/apps

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
JSON	body	是的。	提供克隆应用程序的参数。请参见以下示例。

### JSON 输入示例

```
{
  "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 示例：克隆应用程序

```
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
```

## 从快照克隆应用程序

您可以通过从快照克隆新应用程序来创建该应用程序。

开始之前

请注意以下有关此工作流的信息：

- 使用应用程序快照
- 克隆操作在同一集群中执行



要将应用程序克隆到其他集群，您需要更新 clusterId JSON 输入中适合您环境的参数。

### 1. 选择要克隆的应用程序

执行工作流 "列出应用程序" 并选择要克隆的应用程序。用于克隆应用程序的 REST 调用需要多个资源值。

### 2. 选择要使用的快照

执行工作流 "列出快照" 并选择要使用的快照。

### 3. 克隆应用程序

执行以下 REST API 调用。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v2/apps

#### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
JSON	body	是的。	提供克隆应用程序的参数。请参见以下示例。

#### JSON 输入示例

```
{
  "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 示例：从快照克隆应用程序

```
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
```

#### 从备份克隆应用程序

您可以通过从备份克隆新应用程序来创建该应用程序。

开始之前

请注意以下有关此工作流的信息：

- 使用应用程序备份
- 克隆操作在同一集群中执行



要将应用程序克隆到其他集群、您需要更新 `clusterId` JSON 输入中适合您环境的参数。

#### 1. 选择要克隆的应用程序

执行工作流 ["列出应用程序"](#) 并选择要克隆的应用程序。用于克隆应用程序的 REST 调用需要多个资源值。

#### 2. 选择要使用的备份

执行工作流 ["列出备份"](#) 并选择要使用的备份。

#### 3. 克隆应用程序

执行以下 REST API 调用。

HTTP 方法	路径
发布	/accounts/ {account_id} /k8s/v2/qpps

#### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
JSON	body	是的。	提供克隆应用程序的参数。请参见以下示例。

#### JSON 输入示例

```
{
  "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 示例：从备份克隆应用程序

```
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
```

## 从备份还原应用程序

您可以通过从备份创建新应用程序来还原应用程序。

### 1. 选择要还原的应用程序

执行工作流 ["列出应用程序"](#) 并选择要克隆的应用程序。用于还原应用程序的REST调用需要多个资源值。

### 2. 选择要使用的备份

执行工作流 ["列出备份"](#) 并选择要使用的备份。

### 3. 还原应用程序

执行以下 REST API 调用。您必须提供备份（如下所示）或快照的 ID 。

HTTP 方法	路径
PUT	/accounts/ {account_id} /k8s/v2/apps/ {app_id}

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
JSON	body	是的。	提供克隆应用程序的参数。请参见以下示例。

### JSON 输入示例

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

**curl 示例：**从备份原位还原应用程序

```
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
```

## 命名空间

### 列出命名空间

您可以列出可用的命名空间。

#### 1. 列出命名空间

执行以下REST API调用以列出命名空间。

HTTP 方法	路径
获取	/accounts/ {account_id} /topology/v1/namespaces

**curl**示例：返回所有命名空间的所有数据

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

**curl**示例：返回所有命名空间的名称、状态和集群ID

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

### JSON 输出示例

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

# 支持

## 列出通知

您可以列出特定 Astra 帐户的通知。您可以在监控系统活动或调试问题描述时执行此操作。

### 1. 列出通知

执行以下 REST API 调用。

HTTP 方法	路径
获取	/accounts/ {account_id} /core/v1/notifications

### 其他输入参数

除了所有 REST API 调用通用的参数之外，此步骤的 curl 示例还使用以下参数。

参数	Type	Required	Description
筛选器	查询	否	也可以筛选要在响应中返回的通知。
包括	查询	否	也可以选择要在响应中返回的值。

### curl 示例：返回所有通知

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

### curl 示例：返回严重性为警告的通知的问题描述

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

### JSON 输出示例

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

## 删除失败的应用程序

如果某个受管应用程序的备份或快照处于故障状态，您可能无法将其删除。在这种情况下，您可以使用下面所述的工作流手动删除此应用程序。

### 1. 选择要删除的应用程序

执行工作流 ["列出应用程序"](#) 并选择要删除的应用程序。

### 2. 列出应用程序的现有备份

执行工作流 ["列出备份"](#)。

### 3. 删除所有备份

通过执行此工作流删除所有应用程序备份 ["删除备份"](#) 列表中的每个备份。

### 4. 列出应用程序的现有快照

执行工作流 ["列出快照"](#)。

### 5. 删除所有快照

执行工作流 ["删除快照"](#) 列表中的每个快照。

### 6. 删除应用程序

执行工作流 ["取消管理应用程序"](#) 删除应用程序。

# 使用 Python

## NetApp Astra Control Python SDK

NetApp Astra Control Python SDK 是一个开源软件包，可用于自动部署 Astra Control。该软件包也是了解 Astra Control REST API 的宝贵资源，或许可以在创建您自己的自动化平台时使用。



为了简单起见，本页其余部分将 NetApp Astra Control Python SDK 称为 \* SDK \*。

### 两个相关软件工具

SDK 包含两个不同但相关的工具，这些工具在访问 Astra Control REST API 时在不同的抽象级别运行。

#### Astra SDK

Astra SDK 提供核心平台功能。它包括一组 Python 类，用于抽象化底层 REST API 调用。这些类支持对各种 Astra Control 资源执行管理操作，包括应用程序，备份，快照和集群。

Astra SDK是软件包的一部分、并在单个软件包中提供 `astraSDK.py` 文件您可以将此文件导入到您的环境中并直接使用这些类。



NetApp Astra Control Python SDK\*（或仅 SDK）是整个软件包的名称。\* Astra SDK\*是指单个文件中的核心Python类 `astraSDK.py`。

#### 工具包脚本

除了Astra SDK文件之外、还可以使用 `toolkit.py` 脚本也可用。此脚本可通过访问内部定义为 Python 函数的独立管理操作，在较高的抽象级别下运行。该脚本将导入 Astra SDK 并根据需要调用类。

### 如何访问

您可以通过以下方式访问 SDK。

#### Python 软件包

SDK 可从获取 "[Python 软件包索引](#)" 名称为 `actoolkit`。软件包将分配一个版本号，并将根据需要进行更新。您必须使用 \* **Pip** 软件包管理实用程序将软件包安装到您的环境中。

安装后、可以通过放置来利用 `astraSDK.py` 类 `import astraSDK` 在脚本中。此外、 `actoolkit` 可以直接在命令提示符处调用、相当于 `toolkit.py (actoolkit list clusters` 与相同 `./toolkit.py list clusters)`。

请参见 "[PyPI： NetApp Astra Control Python SDK](#)" 有关详细信息 ...

#### GitHub 源代码

此外，还可以从 GitHub 获取 SDK 源代码。存储库包括以下内容：

- `astraSDK.py` (采用Python类的Astra SDK)
- `toolkit.py` (基于功能的高级脚本)

- 详细的安装要求和说明
- 安装脚本
- 其他文档

您可以克隆 "[GitHub : NetApp/NetApp-Astra-toolkits.](#)" 存储库连接到本地环境。

## 安装和基本要求

在安装软件包并准备使用该软件包时，需要考虑多个选项和要求。

### 安装选项摘要

您可以通过以下方式之一安装 SDK：

- 使用准备好的 "[Docker: NetApp/Astra-toolkits.](#)" 映像、已安装所有必要的依赖项、包括 `actoolkit`
- 使用Pip安装 `actoolkit` 从PyPI打包到Python环境
- 克隆GitHub存储库并复制/修改两个核心Python文件、以便可以通过Python客户端代码访问它们

有关详细信息，请参见 [PyPI](#) 和 [GitHub](#) 页面。

### Astra Control 环境的要求

直接使用Astra SDK中的Python类还是中的功能 `toolkit.py` 脚本、最终您将在部署Astra Control时访问REST API。因此，您需要一个 Astra 帐户以及一个 API 令牌。请参见 "[开始之前](#)" 有关详细信息，请参见本文档 \* 入门 \* 一节中的其他页面。

### NetApp Astra Control Python SDK 的要求

SDK 具有与本地 Python 环境相关的几个前提条件。例如、您必须使用Python 3.8或更高版本。此外，还需要几个 Python 软件包。有关详细信息，请参见 [GitHub](#) 存储库页面或 [PyPI](#) 软件包页面。

## 有用资源摘要

下面是您开始使用所需的一些资源。

- "[PyPI : NetApp Astra Control Python SDK](#)"
- "[GitHub : NetApp/NetApp-Astra-toolkits.](#)"
- "[Docker: NetApp/Astra-toolkits.](#)"

## 原生 Python

### 开始之前

Python是数据中心自动化的一种流行开发语言。在将 Python 的原生功能与多个通用软件包结合使用之前，您需要准备环境和所需的输入文件。



除了使用 Python 直接访问 Astra Control REST API 之外，NetApp 还提供了一个工具包软件包，用于抽象化 API 并消除一些复杂性。请参见 "[NetApp Astra Control Python SDK](#)" 有关详细信息 ...

## 准备环境

下面介绍了运行 Python 脚本的基本配置要求。

### Python 3.

您需要安装最新版本的 Python 3。

### 其他库

必须安装 \* 请求 \* 和 \* urllib3 \* 库。您可以根据环境需要使用 pip 或其他 Python 管理工具。

### 网络访问

运行脚本的工作站必须能够访问网络并访问 Astra Control。使用 Astra 控制服务时、您必须连接到 Internet 并能够连接到上的服务 <https://astra.netapp.io>。

### 身份信息

您需要一个具有帐户标识符和 API 令牌的有效 Astra 帐户。请参见 "[获取 API 令牌](#)" 有关详细信息 ...

## 创建 JSON 输入文件

Python 脚本依赖于 JSON 输入文件中包含的配置信息。下面提供了示例文件。



您需要根据环境的具体情况更新这些示例。

### 身份信息

以下文件包含 API 令牌和 Astra 帐户。您需要使用将此文件传递到 Python 脚本 `-i` (或 `--identity`) CLI 参数。

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

## 列出应用程序

您可以使用以下脚本列出 Astra 帐户的应用程序。



请参见 "[开始之前](#)" 所需 JSON 输入文件的示例。

```
#!/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 参考

## Overview

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

The API reference documentation provided in this section applies to the 23.01 release of Astra Control Service. It can also be used with Astra Control Center 22.11. See [About this release](#) for more information.

## ASUP

### ASUP overview

The ASUP API provides CRUD (Create-Read-Update-Delete) access to asup resources in order to create and optionally upload the AutoSupport bundles.

### Create a new ASUP resource

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

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

#### Parameters

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

#### Request Body

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

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

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

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

### Example request

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

### Response

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

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

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

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

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



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

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

## Example response

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

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

## Error

Status: 404, Not found

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

## Example error response

```
{
  "type": "https://astra.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	

### type\_astra\_stateDetails

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

### invalidParams

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

### invalidFields

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

## List all ASUP resources

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

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

### Parameters

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



## Response

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

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

## Example response

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

```

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

```

## Response

Status: 401, Unauthorized

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

## Example response

```

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

```

## Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

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

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

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



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

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

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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

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

## Retrieve an ASUP resource

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

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

### Parameters

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

### Response

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

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

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

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

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

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



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

### Example response

```

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

```

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

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\_stateDetails

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

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### invalidParams

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

## Account

## Account overview

The Account API provides CRUD (Create-Read-Update-Delete) access to account resources in order to represent isolated tenants in a multitenant system.

## Create a new account

POST /accounts

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

### Request Body

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

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

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

### Example request

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

### Response

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

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

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



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

## Example response

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

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

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

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### postalAddress

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

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

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

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

accountContact

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

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



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

#### invalidParams

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

#### invalidFields

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

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

## List all accounts

GET /accounts

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

### Parameters

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

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

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

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">account_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-accounts",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "70796606-79ba-480b-966c-e4c600fbf622",
      "name": "fraught-pines",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    },
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "7976114d-35ec-48a7-ba31-22d8e94a8bb2",
      "name": "sad-dino",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

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

### Definitions



## See Definitions

### postalAddress

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

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

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### accountContact

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

Name	Type	Required	Description
firstName	string	True	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

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

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

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

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

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

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

Name	Type	Required	Description
modifiedBy	string	False	

account\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>
isEnabled	string	True	<p>JSON string indicating the account is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled.</p> <p>If the account has never been enabled, this field is absent.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
accountContact	<a href="#">accountContact</a>	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

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

## Retrieve an account

GET /accounts/{account\_id}

Returns the stored Account API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Account API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>



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

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

## Example response

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

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### postalAddress

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

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

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

accountContact

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

Name	Type	Required	Description
firstName	string	True	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

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



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

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

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

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

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

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

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

## Modify an account

PUT /accounts/{account\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-account"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - Changes can only be made to user and role resources under the account (default value)</li> <li>• "active" - Changes can be made to any resource under the account</li> <li>• "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue</li> </ul>
isEnabled	string	False	<p>JSON string indicating the account is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - Users are not permitted to use this account</li> <li>• "true" - Users are permitted to use this account</li> </ul>
enabledTimestamp	string	False	<p>JSON string containing the timestamp indicating when the account was last enabled.</p> <p>If the account has never been enabled, this field is absent.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
accountContact	<a href="#">accountContact</a>	False	JSON object containing user contact information to create an owner user at the time of account activation.
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "name": "frightened-pine"
}
```

### Response

Status: 204, Indicates if the account resource was updated.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```



**Definitions**

## See Definitions

### postalAddress

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

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

Name	Type	Required	Description
addressCountry	string	False	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	False	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	False	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	False	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
streetAddress1	string	False	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### accountContact

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

Name	Type	Required	Description
firstName	string	False	JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

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

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

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

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

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

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

Name	Type	Required	Description
modifiedBy	string	False	

#### invalidParams

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

#### invalidFields

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

## Delete an account

DELETE /accounts/{account\_id}

Removes the specified Account API resource.

### Side Effects

- "deletePending" is set to "true" and the account can no longer be accessed.

### Parameters

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

### Response

Status: 204, Indicates if the account resource was deleted.

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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



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 provides CRUD (Create-Read-Update-Delete) access to application resources in order to represent Kubernetes (K8s) applications.

### Create a new app for a managed cluster

POST /accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps

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

#### Parameters

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

## Request Body

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[clusterScopedResources]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app

Name	Type	Required	Description
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
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: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

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

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}
```

### Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "2.0"</li> <li>• "2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app



Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>



Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

## namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

## type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

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

#### invalidParams

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

#### invalidFields

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

## List the apps for a managed cluster

GET /accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps

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

### Parameters

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

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

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">app_2.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-apps",
  "version": "2.1",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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	

#### app\_2.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "2.0"</li> <li>• "2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "pending" - The application is scheduled for discovery</li><li>• "discovering" - The application is in the process of being discovered</li><li>• "provisioning" - The application is in the process of being provisioned</li><li>• "ready" - The application is running normally</li><li>• "failed" - The application is in a permanent failure state</li><li>• "restoring" - The application is being restored from backup or snapshot</li><li>• "unavailable" - The application is not currently accessible</li><li>• "unknown" - The application state cannot be determined</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li><li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li><li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• "openshift" - The cluster is of type OpenShift</li><li>• "kubernetes" - The cluster is generic Kubernetes</li></ul>



Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

[type\\_astra\\_metadata\\_list](#)

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

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

## 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: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> <li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app

Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

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

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>



Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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 app for a managed cluster

PUT

/accounts/{account\_id}/topology/v2/managedClusters/{managedCluster\_id}/apps/{app\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the app collection to list
forceUpdate	string	header	False	<ul style="list-style-type: none"> <li>example: true</li> </ul>

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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



Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	False	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ]— Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ]— Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ]— Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ]— Select all resources that have a label named app</li> <li>• [ "!app" ]— Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	False	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	False	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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 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

- Billing stops.
- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer show up under /apps, but it will still show up under /apps.
- If the application is not running on a cluster, the application is no longer known to the system and will no longer show up under /apps.
- All associated snapshots, backups, and the stored application state are removed.

### Parameters

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

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

## Create a new app

POST /accounts/{account\_id}/k8s/v2/apps

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

### Parameters

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

### Request Body

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-app"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"2.0"</li><li>"2.1"</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

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

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}
```

### Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "2.0"</li> <li>• "2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app

Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>



Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

## namespaceMapping

Name	Type	Required	Description
source	string	True	JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

## type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	

Name	Type	Required	Description
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>



#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

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

#### invalidParams

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

#### invalidFields

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

## List all apps

GET /accounts/{account\_id}/k8s/v2/apps

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

### Parameters

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

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

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">app_2.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-apps",
  "version": "2.1",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>



Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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	

#### app\_2.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "2.0"</li> <li>• "2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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



Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

[type\\_astra\\_metadata\\_list](#)

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



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

## Retrieve an app

GET /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Returns the stored App API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored App API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "2.0"</li> <li>• "2.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	True	JSON array of JSON objects describing the resources that are part of this app

Name	Type	Required	Description
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	True	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>



Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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



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

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	True	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	True	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	True	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	True	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

Name	Type	Required	Description
labelSelectors	array[string]	True	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	True	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	True	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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 app

PUT /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-app"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"2.0"</li> <li>"2.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
clusterScopedResources	array[ <a href="#">clusterScopedResources</a> ]	False	JSON array of JSON objects describing the cluster-scoped resources that are part of this app
namespaceScopedResources	array[ <a href="#">namespaceScopedResources</a> ]	False	JSON array of JSON objects describing the resources that are part of this app
lastResourceCollectionTimestamp	string	False	<p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application is scheduled for discovery</li> <li>• "discovering" - The application is in the process of being discovered</li> <li>• "provisioning" - The application is in the process of being provisioned</li> <li>• "ready" - The application is running normally</li> <li>• "failed" - The application is in a permanent failure state</li> <li>• "restoring" - The application is being restored from backup or snapshot</li> <li>• "unavailable" - The application is not currently accessible</li> <li>• "unknown" - The application state cannot be determined</li> </ul>

Name	Type	Required	Description
stateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

Name	Type	Required	Description
appDetectedType	string	False	<p>JSON string that uniquely represents the specific type of application that is detected.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The application contains a resource that identifies it as part of the Kubernetes environment</li> <li>• "acc" - The application contains resources that identify it as an Astra Control Center instance</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings containing the names of the namespaces in which the application is running.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
namespaceMapping	array[namespaceMapping]	False	<p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
clusterName	string	False	<p>JSON string containing the name of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p>

Name	Type	Required	Description
clusterID	string	False	<p>JSON string containing the ID of the cluster that the application is running on.</p> <p>Not returned if the application is not currently running.</p> <p>When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>

Name	Type	Required	Description
sourceAppID	string	False	<p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot.</p> <p>When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail.</p> <p>Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterName	string	False	<p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p>

Name	Type	Required	Description
sourceClusterID	string	False	<p>JSON string containing the ID of the cluster the application was previously running on.</p> <p>Only returned if the application was cloned from another cluster.</p> <p>When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
backupID	string	False	<p>JSON string containing the ID of the backup that the application was restored from.</p> <p>Only returned if the application was restored from a backup.</p> <p>When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the ID of the snapshot that the application was restored from.</p> <p>Only returned if the application was restored from a snapshot.</p> <p>When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application.</p> <p>When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicationSourceAppID	string	False	<p>JSON string containing the ID of the application that is being replicated to this application.</p> <p>Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in failedOver state, this field is not returned.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-app",
  "version": "2.1",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"><li>• This string is internally validated against Astra /apiResources</li></ul>

### clusterScopedResources

Name	Type	Required	Description
GVK	<a href="#">GVK</a>	False	JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"><li>• This object is internally validated against Astra /apiResources.</li></ul>

Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the same grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> </ul> <p>More examples can be found here: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement">https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement</a></p>

#### namespaceScopedResources

Name	Type	Required	Description
namespace	string	False	<p>JSON string containing the name of a namespace in which the application is defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>



Name	Type	Required	Description
labelSelectors	array[string]	False	<p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included.</p> <p>Each element in this array is a Kubernetes label selector string and follows the grammar for those values.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• [ "app=mysql" ] — Select all resources that have a label whose name is app and whose value is mysql</li> <li>• [ "app != mysql" ] — Select all resources that have a label whose name is app and whose value is not mysql</li> <li>• [ "app in (mysql, mariadb)" ] — Select all resources that have a label whose name is app and value is mysql or mariadb</li> <li>• [ "app notin (nginx, wordpress)" ] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress</li> <li>• [ "app" ] — Select all resources that have a label named app</li> <li>• [ "!app" ] — Select all resources that do not have a label named app</li> </ul> <p>Note that multiple selection operators can be included in a single selector, separated by commas. In that</p>

### type\_astra\_stateTransitions

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

### type\_astra\_stateDetails

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

### namespaceMapping

Name	Type	Required	Description
source	string	False	<p>JSON string containing the name of the namespace on the source cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
destination	string	False	<p>JSON string containing the name of the namespace on the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

### 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 app

DELETE /accounts/{account\_id}/k8s/v2/apps/{app\_id}

Removes the specified App API resource.

### Side Effects

- Billing stops.
- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer show up under /apps, but it will still show up under /apps.
- If the application is not running on a cluster, the application is no longer known to the system and will no longer show up under /apps.
- All associated snapshots, backups, and the stored application state are removed.

### 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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to appMirror resources to enable management of AppMirror relationships.

## Create a new AppMirror resource

POST /accounts/{account\_id}/k8s/v1/appMirrors

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

### Parameters

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

### Request Body

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

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

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

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

### Response

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

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>



Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "id": "c5fbadd4-5d9e-5942-bb7f-f5386b6b6253",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```

```
],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]
```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

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

## Example response

```

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

```



## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

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

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

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

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

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

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

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

#### 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 <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example:  "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples:  "field eq 'value'"</p>

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appMirror_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.0",
      "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"
}
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

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

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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



Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

appMirror\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created.</p> <p>If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve an AppMirror resource

GET /accounts/{account\_id}/k8s/v1/appMirrors/{appMirror\_id}

Returns the stored AppMirror API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created.</p> <p>If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index.</p> <p>If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>



Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "id": "c5fbadd4-5d9e-5942-bb7f-f5386b6b6253",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

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

## 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: <ul style="list-style-type: none"> <li>"application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	False	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	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: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	False	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	False	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>



Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

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

#### invalidFields

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

## Delete an AppMirror resource

DELETE /accounts/{account\_id}/k8s/v1/appMirrors/{appMirror\_id}

Removes the specified AppMirror API resource.

Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

### Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the appMirror API resource will be removed from both the source and destination applications.



## Parameters

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

## Response

Status: 204, Indicates if the appMirror resource was deleted.

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

invalidParams

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

## Create a new AppMirror resource for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors

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

### Parameters

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

### Request Body

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

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

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

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

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

### Response

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

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



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "id": "c5fbadd4-5d9e-5942-bb7f-f5386b6b6253",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```

```
],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]
```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

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

## Example response

```

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

```

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

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

### Definitions



## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

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

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

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

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

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

#### 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 <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example:  "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples:  "field eq 'value'"</p>

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appMirror_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.0",
      "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"
}
},
"metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```



## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

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

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

appMirror\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	True	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created.</p> <p>If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "establishing" - The relationship is being created.</li><li>• "established" - The relationship is created.</li><li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li><li>• "failedOver" - Failover of the application to the destination cluster has completed.</li><li>• "deleting" - Resources created by the relationship are being cleaned up.</li><li>• "deleted" - The relationship was cleaned up and deleted.</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve an AppMirror resource for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors/{appMirror\_id}

Returns the stored AppMirror API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appMirror"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created.</p> <p>If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index.</p> <p>If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
state	string	True	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	True	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "id": "c5fbadd4-5d9e-5942-bb7f-f5386b6b6253",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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



## Example error response

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

## Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

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

## 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: <ul style="list-style-type: none"> <li>• "application/astra-appMirror"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
sourceAppID	string	False	Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceClusterID	string	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: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided at creation time because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided at creation time because it determines the cluster on which the destination application will be created. If provided in an update, it must match the cluster ID of the destination application, so it can only change when also swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
namespaceMapping	array[ <a href="#">namespaceMapping</a> ]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>

Name	Type	Required	Description
storageClasses	array[ <a href="#">storageClasses</a> ]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs).</p> <p>Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster.</p> <p>If not provided or the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 2</li> </ul>



Name	Type	Required	Description
state	string	False	<p>The state of the relationship.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "establishing" - The relationship is being created.</li> <li>• "established" - The relationship is created.</li> <li>• "failingOver" - Failover of the application to the destination cluster is in progress.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleting" - Resources created by the relationship are being cleaned up.</li> <li>• "deleted" - The relationship was cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleting"</li> <li>• "established": "failingOver", "deleting"</li> <li>• "failingOver": "failedOver", "deleting"</li> <li>• "failedOver": "establishing", "deleting"</li> <li>• "deleting": "deleted"</li> <li>• "deleted":</li> </ul>
stateDesired	string	False	<p>The desired state for the relationship.</p> <p>At creation, the only valid value is "established".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "established" - The relationship is created.</li> <li>• "failedOver" - Failover of the application to the destination cluster has completed.</li> <li>• "deleted" - The relationship was successfully cleaned up and deleted.</li> </ul>

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "establishing": "established", "deleted"</li> <li>• "established": "failedOver", "deleted"</li> <li>• "failingOver": "failedOver", "deleted"</li> <li>• "failedOver": "established", "deleted"</li> <li>• "deleting": "deleted"</li> <li>• "deleted": "deleted"</li> </ul>
stateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried.</li> <li>• "idle" - There is currently no transfer in progress.</li> </ul>
transferStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "transferring": "idle"</li> <li>• "idle": "transferring"</li> </ul>
transferStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransitions]	False	<p>Permitted state transitions from a given defined state.</p> <p>The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> <li>• "indeterminate": "normal", "warning", "critical"</li> <li>• "normal": "indeterminate", "warning", "critical"</li> <li>• "warning": "indeterminate", "normal", "critical"</li> <li>• "critical": "indeterminate", "normal", "warning"</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	False	<p>Additional details about the current state including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{  
  "type": "https://astra.netapp.io/problems/1",  
  "title": "Resource not found",  
  "detail": "The resource specified in the request URI wasn't found.",  
  "status": "404"  
}
```

### Definitions

## See Definitions

### namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Conforms to the DNS 1123 Label Schema</li></ul>

### storageClasses

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
storageClassName	string	False	Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

#### type\_astra\_stateTransitions

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

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

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

#### invalidFields

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

## Delete an AppMirror resource for an app

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appMirrors/{appMirror\_id}

Removes the specified AppMirror API resource.

Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

### Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the appMirror API resource will be removed from both the source and destination applications.

## Parameters

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

## 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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 CRUD (Create-Read-Update-Delete) access to appAsset resources to provide access to internal collections of state used to manage applications.

## 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 <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
app_id	string	path	True	ID of the containing app resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: assetType,asset Name</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

- Conforms to the Astra Metadata Schema

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

#### appAsset\_1.0\_get\_response\_body



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.
resource	<a href="#">type_json</a>	False	JSON object containing the entire content of the Kubernetes resource definition.

Name	Type	Required	Description
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

[type\\_astra\\_metadata\\_list](#)

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

#### invalidParams

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

## Retrieve an 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

Name	Type	In	Required	Description
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: <ul style="list-style-type: none"> <li>"application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 254</li> </ul>

Name	Type	Required	Description
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	GVK	True	JSON object containing a Kubernetes group/version/kind.
resource	type_json	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.0",
  "id": "198f771e-c440-57d9-9f77-ec87e6bf665c",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

- Conforms to the Astra Metadata Schema

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

#### invalidParams

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

## List the application assets for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appAssets

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

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: assetType,asset Name

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appAsset_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

- Conforms to the Astra Metadata Schema

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

#### appAsset\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.
resource	<a href="#">type_json</a>	False	JSON object containing the entire content of the Kubernetes resource definition.

Name	Type	Required	Description
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[labels]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	type_astra_metadata	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

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: <ul style="list-style-type: none"> <li>"application/astra-appAsset"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
assetType	string	True	JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 254</li> </ul>
creationTimestamp	string	True	JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the ISO-8601 Date Time Schema</li> </ul>
GVK	<a href="#">GVK</a>	True	JSON object containing a Kubernetes group/version/kind.



Name	Type	Required	Description
resource	<a href="#">type_json</a>	False	JSON object containing the entire content of the Kubernetes resource definition.
assetID	string	True	JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
assetName	string	True	JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
namespace	string	False	JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.0",
  "id": "198f771e-c440-57d9-9f77-ec87e6bf665c",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

Name	Type	Required	Description
group	string	False	JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
kind	string	False	JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
version	string	False	JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

type\_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code></li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

- Conforms to the Astra Metadata Schema

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

#### invalidParams

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

## Application Backup

### Application Backup overview

The Application Backup API provides CRUD (Create-Read-Update-Delete) access to appBackup resources to create and view backups of a managed application.

### List all application backups

GET /accounts/{account\_id}/topology/v1/appBackups

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

### Parameters

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



Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appBackup_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.1",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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\_1.1\_get\_response\_body

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system will assign a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of snapshot. Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>
bytesDone	number	False	<p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve an application backup

GET /accounts/{account\_id}/topology/v1/appBackups/{appBackup\_id}

Returns the stored Application Backup API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appBackup"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system will assign a name for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	<p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>

Name	Type	Required	Description
bytesDone	number	False	<p>JSON number containing the number of bytes backed up for a running backup.</p> <p>When the backup is completed, it matches with the totalBytes field.</p>
percentDone	number	False	<p>JSON number containing the percentage complete for a running backup.</p> <p>When the backup is completed, it is set to "100".</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>



## Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "id": "54fe651d-3d3b-5fa8-b85c-5db757885ff3",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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 <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 204, Indicates if the appBackup resource was deleted.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

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

## Create a new application backup for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups

Indicates the desired values for the Application Backup API resource to be created.

### Parameters

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

### Request Body

Indicates the desired values for the Application Backup API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appBackup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
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 will assign a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	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: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example request

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "name": "app-name-245"
}
```

### Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appBackup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system will assign a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of snapshot. Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>
bytesDone	number	False	<p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p>



Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

### Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "id": "54fe651d-3d3b-5fa8-b85c-5db757885ff3",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example error response

```
{
  "type": "https://astra.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	

### type\_astra\_stateDetails

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

### invalidParams

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

### invalidFields

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

## List the application backups for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups

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

### Parameters

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

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appBackup_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.1",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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\_1.1\_get\_response\_body

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system will assign a name for the backup. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of snapshot. Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>
bytesDone	number	False	<p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve an application backup for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appBackups/{appBackup\_id}

Returns the stored Application Backup API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-appBackup"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system will assign a name for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
bucketID	string	True	<p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotID	string	False	<p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application backup is scheduled for discovery</li> <li>• "discovering" - The application backup is in the process of being discovered</li> <li>• "running" - The application backup is running normally</li> <li>• "completed" - The application backup has completed successfully</li> <li>• "failed" - The application backup is in a permanent failure state</li> <li>• "removed" - The application backup is not currently accessible</li> <li>• "unknown" - The application backup state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hooks run as part of snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
backupCreationTimestamp	string	False	<p>JSON string containing a timestamp indicating when the backup was taken.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
totalBytes	number	False	<p>JSON number containing the total number of bytes in the backup.</p>

Name	Type	Required	Description
bytesDone	number	False	JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.
percentDone	number	False	JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100".
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "id": "54fe651d-3d3b-5fa8-b85c-5db757885ff3",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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



## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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 <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
appBackup_id	string	path	True	ID of the appBackup collection to list

### Response

Status: 204, Indicates if the appBackup resource was deleted.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
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	False	
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 provides CRUD (Create-Read-Update-Delete) access to appSnap resources to create and view snapshots of a managed application.

## Create a new application snapshot for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps

Indicates the desired values for the Application Snapshot API resource to be created.

### Parameters

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

Name	Type	In	Required	Description
app_id	string	path	True	ID of the containing app resource

### Request Body

Indicates the desired values for the Application Snapshot API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-appSnap"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
name	string	False	JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system will assign a name for the snapshot. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>

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

### Example request

```
{
  "type": "application/astra-appSnap",
  "version": "1.1",
  "name": "app-name-245"
}
```

### Response

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

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-appSnap"</li> </ul>
version	string	True	<p>Version of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	<p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system will assign a name for the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and which schedule triggered the snapshot. Only present for snapshots initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.1",
  "id": "ab41abde-ae1b-5361-ae00-d82deac97bf3",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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	

### type\_astra\_stateDetails

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

### invalidParams

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

### invalidFields

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

## List the application snapshots for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps

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

### Parameters

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

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">appSnap_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-appSnaps",
  "version": "1.1",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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\_1.1\_get\_response\_body

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system will assign a name for the snapshot. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and which schedule triggered the snapshot. Only present for snapshots initiated by a schedule. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve an application snapshot

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/appSnaps/{appSnap\_id}

Returns the stored Application Snapshot API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the appSnap collection to list

## Response

Status: 200, Returns the stored Application Snapshot API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-appSnap"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system will assign a name for the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Conforms to the DNS 1123 Label Schema</li> </ul>
scheduleID	string	False	<p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and which schedule triggered the snapshot. Only present for snapshots initiated by a schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
snapshotAppAsset	string	False	<p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The application snapshot is scheduled for discovery</li> <li>• "discovering" - The application snapshot is in the process of being discovered</li> <li>• "running" - The application snapshot is running normally</li> <li>• "completed" - The application snapshot has completed</li> <li>• "failed" - The application snapshot is in a permanent failure state</li> <li>• "removed" - The application snapshot is not currently accessible</li> <li>• "unknown" - The application snapshot state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
hookState	string	False	<p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "failed" - One or more execution hooks have failed</li> <li>• "success" - There were zero or more applicable hooks and all were successful</li> </ul>
hookStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.1",
  "id": "ab41abde-ae1b-5361-ae00-d82deac97bf3",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### 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 <ul style="list-style-type: none"><li>• example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
appSnap_id	string	path	True	ID of the appSnap collection to list

### Response

Status: 204, Indicates if the appSnap resource was deleted.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
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 CRUD (Create-Read-Update-Delete) access to buckets used to store application backups in Astra.

## Create a new bucket

POST /accounts/{account\_id}/topology/v1/buckets

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

### Parameters

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

### Request Body

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 256</li></ul>

Name	Type	Required	Description
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.</p>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "Test Bucket",
  "credentialID": "d5b3854c-38de-42c6-9269-b5c052aba76f",
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  }
}
```

## Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-assigned name for the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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



### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ 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	

type\_astra\_stateDetails

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

invalidParams

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

invalidFields

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

## List all buckets

GET /accounts/{account\_id}/topology/v1/buckets

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

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}

### Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">bucket_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-buckets",
  "version": "1.2",
  "items": [
    [
      "4c753e39-25e9-4b36-a8de-69f168aa59cd",
      "Test Bucket",
      "gcp"
    ],
    [
      "d8fd585d-6429-4c08-a308-af193a88eac7",
      "Local",
      "ontap-s3"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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



### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ 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	

bucket\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the bucket. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>

Name	Type	Required	Description
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	bucketParameters	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.</p>



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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve a bucket

GET /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Returns the stored Bucket API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Bucket API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-assigned name for the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	<p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ 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	

invalidParams

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

## Modify a bucket

PUT /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

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

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-bucket"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 256</li></ul>
credentialID	string	False	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
provider	string	False	<p>JSON string indicating the bucket protocol that can be used to access the bucket.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>

Name	Type	Required	Description
bucketParameters	<a href="#">bucketParameters</a>	False	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "New Bucket Name"
}
```

### Response

Status: 204, Indicates if the bucket resource was updated.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	False	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	False	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	False	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	False	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	False	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ 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	

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 bucket

DELETE /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Removes the specified Bucket API resource.

### Side Effects

- Internal data structures are cleaned up.

## Parameters

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

## Response

Status: 204, Indicates if the bucket resource was deleted.

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

invalidParams

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

# Certificate

## Certificate overview

The Certificate App API provides CRUD (Create-Read-Update-Delete) access to certificate resources in order to represent admin-trusted certificates that are used for establishing outgoing connections.

## Create a new certificate

POST /accounts/{account\_id}/core/v1/certificates

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

### Parameters

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

### Request Body

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

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a Base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
isSelfSigned	string	False	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul> </li> </ul>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted.</p> <p>If not specified on create, the default value is "trusted".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

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

### Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "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	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-certificate"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>"rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>"intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a Base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>Conforms to the base64 Encoded Data Schema</li> </ul>
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 511</li> </ul>

Name	Type	Required	Description
expiryTimestamp	string	True	<p>JSON string containing a timestamp indicating when the certificate expires.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>



## Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "id": "eb12225e-aded-584e-9da1-03881ce4cf7a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtIBDRVJUSUZJQ0FURSOtLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURSOtLS0t",
  "cn": "vcenter.example.com",
  "isSelfSigned": "false",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "trustState": "trusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDesired": "trusted",
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	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	False	
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: 401, Unauthorized

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

Name	Type	Required	Description
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\_stateTransitions

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

### type\_astra\_stateDetails

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

### 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 certificates

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

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

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
continue		query	False	Indicates the token to resume listing from. <p>URL examples:  <code>"continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</code></p> <p>OpenAPI examples:  <code>"&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</code></p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> <ul style="list-style-type: none"> <li>• example: certUse%20eq%20'rootCA'</li> </ul>
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>• example: id,cn,isSelfSigned</li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"

## Response

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

Name	Type	Required	Description
items	array[ <a href="#">Any of: certificate_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-certificates",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

### Example error response

```
{
  "type": "https://astra.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\_stateTransitions

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

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object 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\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-certificate"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>"rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>"intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	JSON string containing a Base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>



Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetails]	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.  <ul style="list-style-type: none"> <li>Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	Client and service-specified metadata associated with the resource. Defined values are:  <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

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

invalidParams

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

## Retrieve a certificate

GET /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Returns the stored Certificate API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Certificate API resource in the JSON response body.

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

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	True	<p>JSON string indicating the use of the certificate. If not specified, defaults to "rootCA".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>• "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	True	<p>JSON string containing a Base64 encoded PKCS-11 formatted certificate (PEM).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
cn	string	True	<p>JSON string containing a common name extracted from the certificate.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
expiryTimestamp	string	True	<p>JSON string containing a timestamp indicating when the certificate expires.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
isSelfSigned	string	True	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	True	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[ <a href="#">type_astra_stateTransitions</a> ]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "id": "eb12225e-aded-584e-9da1-03881ce4cf7a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtiBDRVJUSUZJQ0FURSOtLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURSOtLS0t",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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



### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

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\_stateTransitions

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

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object 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 certificate

PUT /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Replaces the entire stored resource with the supplied JSON request body.

### Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".
- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body.

### Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".
- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-certificate"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> <li>"rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA.</li> <li>"intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.</li> </ul>
cert	string	False	JSON string containing a Base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> <li>Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
cn	string	False	<p>JSON string containing a common name extracted from the certificate.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
expiryTimestamp	string	False	<p>JSON string containing a timestamp indicating when the certificate expires.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
isSelfSigned	string	False	<p>JSON string indicating whether the certificate is self-signed.</p> <p>If not provided on create, the value defaults to "false".</p> <p>On update:</p> <ul style="list-style-type: none"> <li>• If the value is provided, that value will be used.</li> <li>• If the value is not provided and the "cert" field is included in the update, the value will be set to "false".</li> <li>• If the value is not provided and the "cert" field is not included in the update, the existing value will be retained.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The certificate is self-signed.</li> <li>• "false" - The certificate is not self-signed.</li> </ul>

Name	Type	Required	Description
trustState	string	False	<p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> <li>• "expired" - The certificate is expired, so is neither trusted or not trusted.</li> </ul>
trustStateTransitions	array[type_astra_stateTransitions]	False	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p>
trustStateDesired	string	False	<p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> <li>• "untrusted" - The certificate is not trusted.</li> <li>• "trusted" - The certificate is marked as trusted.</li> </ul>

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateTransitions

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

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

### invalidParams

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

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

invalidFields

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

## Delete a certificate

DELETE /accounts/{account\_id}/core/v1/certificates/{certificate\_id}

Removes the specified Certificate API resource.

### Parameters

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

### Response

Status: 204, Indicates if the certificate resource was deleted.

### Error

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	False	
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 CRUD (Create-Read-Update-Delete) access to cloud resources to allow clients to connect to specific clouds to manage clusters and applications.

### Create a new cloud

POST /accounts/{account\_id}/topology/v1/clouds

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

#### Parameters

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

#### Request Body

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-cloud"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
name	string	True	JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
cloudType	string	True	JSON string containing a value indicating the type of cloud. Defined values are: <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>



Name	Type	Required	Description
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example request

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "name": "GKE",
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}
```

## Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

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



## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### invalidParams

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

### invalidFields

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

## List all clouds

GET /accounts/{account\_id}/topology/v1/clouds

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

### Parameters

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

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

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">cloud_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clouds",
  "version": "1.1",
  "items": [
    [
      "2f9e63fa-8ba8-414a-a57c-0f3042b80682",
      "gcp",
      "discovering"
    ],
    [
      "f723febe-b167-44dd-b07d-c075a8bbe4f3",
      "aws",
      "failed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### cloud\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

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

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve a cloud

GET /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Returns the stored Cloud API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Cloud API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
cloudType	string	True	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

invalidParams

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

## Modify a cloud

PUT /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- An update will trigger a rediscovery of SAs and clusters.

## Parameters

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

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- An update will trigger a rediscovery of SAs and clusters.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cloud"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
state	string	False	<p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cloud is scheduled for discovery</li> <li>• "discovering" - The cloud is in the process of being discovered</li> <li>• "provisioning" - The cloud is in the process of being provisioned</li> <li>• "running" - The cloud is running normally</li> <li>• "failed" - The cloud is in a permanent failure state</li> <li>• "removed" - The cloud is not currently accessible</li> <li>• "unknown" - The cloud state cannot be determined</li> </ul>

Name	Type	Required	Description
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
cloudType	string	False	<p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gcp" - The cloud is provided by Google</li> <li>• "azure" - The cloud is provided by Microsoft</li> <li>• "aws" - The cloud is provided by Amazon</li> <li>• "private" - The cloud is customer managed</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-cloud",
  "version": "1.1"
}
```

### Response

Status: 204, Indicates if the cloud resource was updated.

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### invalidParams

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

### invalidFields

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

## Delete a cloud

DELETE /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}

Deletes the requested cloud instance and any non-managed clusters and volumes associated with that specific cloud.

### Parameters

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

### Response

```
Status: 204, Indicates if the cloud resource was deleted.
```

### Response

```
Status: 401, Unauthorized
```

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

### Example response

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

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	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	False	
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	False	
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 provides CRUD (Create-Read-Update-Delete) access to cluster resources in order to represent unmanaged Kubernetes clusters.

## Create a new cluster for a cloud

POST /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters

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

## Parameters

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

## Request Body

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-cluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 63</li><li>This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li></ul>
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: <ul style="list-style-type: none"><li>"true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li></ul>

Name	Type	Required	Description
credentialID	string	True	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.3",
  "name": "GKE-22",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}
```

### Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-cluster"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>



Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.3",
  "id": "01eaddc3-75b9-5606-97ae-0aa468b59492",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

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	

### type\_astra\_stateDetails

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

### 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	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">cluster_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.3",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

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



### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object 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\_1.3\_get\_response\_body

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

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



Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

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

## Retrieve a 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: <ul style="list-style-type: none"> <li>• "application/astra-cluster"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>



Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment.            For Kubernetes clusters, this is the Kubernetes version.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.3",
  "id": "01eaddc3-75b9-5606-97ae-0aa468b59492",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	

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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

### invalidParams

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

## Modify a cluster for a cloud

PUT /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>



Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment.            For Kubernetes clusters, this is the Kubernetes version.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.3"
}
```

### 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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

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	False	
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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

### invalidParams

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

## Delete a cluster for a cloud

DELETE /accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}

Removes the specified Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 204, Indicates if the cluster resource was deleted.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

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

## List all clusters

GET /accounts/{account\_id}/topology/v1/clusters

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

## Parameters

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

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">cluster_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.3",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

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

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object 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\_1.3\_get\_response\_body

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDe tails]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>



Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment.</p> <p>For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

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

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

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

## Retrieve a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Returns the stored Cluster API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Cluster API resource in the JSON response body.

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



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>



Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.3",
  "id": "01eaddc3-75b9-5606-97ae-0aa468b59492",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	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	False	

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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

### invalidParams

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



## Modify a cluster

PUT /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-cluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster state cannot be determined</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value</li> <li>• "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in "running", "failed", or "removed" state, and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The default storage class of the cluster does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This key is only returned when a cluster has a managedState of "managed".</p>

Name	Type	Required	Description
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed or is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>



Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.3"
}
```

### 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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Response

Status: 400, Bad request

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

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	False	
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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

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

### invalidParams

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



## Delete a cluster

DELETE /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}

Removes the specified Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the cluster collection to list

### Response

Status: 204, Indicates if the cluster resource was deleted.

### Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 CRUD (Create-Read-Update-Delete) access to clusterNode resources in order to provide access to the nodes associated with a cluster.

## List the cluster nodes for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/clusterNodes

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

## Parameters

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

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

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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



**Definitions**

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

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

## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve a cluster node for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/clusterNodes/{clusterNode\_id}

Returns the stored Cluster Node API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
clusterNode_id	string	path	True	ID of the clusterNode collection to list

## Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-clusterNode"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	True	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema



Name	Type	Required	Description
name	string	True	<p>JSON string containing a value that indicates the Kubernetes name for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	<p>JSON string containing a value that indicates the Kubernetes role for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions



## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

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

## invalidParams

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

## List the cluster nodes for a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/clusterNodes

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

### Parameters

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

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

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



## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve a cluster node for a cluster

GET

/accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/clusterNodes/{clusterNode\_id}

Returns the stored Cluster Node API resource in the JSON response body.

### Parameters

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

## Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-clusterNode"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value that indicates the Kubernetes name for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	<p>JSON string containing a value that indicates the Kubernetes role for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>



Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

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

## invalidParams

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

## List the cluster nodes for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/clusterNodes

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

### Parameters

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



Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">clusterNode_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**

See Definitions

labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$"</code></li> </ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^{[a-z0-9A-Z_-.]{1,63}\$"</code></li> </ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

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

- Conforms to the Astra Metadata Schema

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

## clusterNode\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-clusterNode"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 254</li></ul>

Name	Type	Required	Description
labels	array[ <a href="#">labels</a> ]	True	<p>JSON array of JSON objects, each containing Kubernetes labels associated with the node.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	<p>JSON string containing an ISO 8601 timestamp that indicates when the node was created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	<p>JSON string containing a value that indicates the internal IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>



Name	Type	Required	Description
region	string	True	JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
osImage	string	True	JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

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

#### invalidParams

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

## Retrieve a cluster node for a 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 <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
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: <ul style="list-style-type: none"> <li>"application/astra-clusterNode"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
role	string	True	JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
labels	array[ <a href="#">labels</a> ]	True	JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
creationTime	string	True	JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
externalIP	string	True	JSON string containing a value that indicates the internal IP address for the node. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
internalIP	string	True	<p>JSON string containing a value that indicates the external IP address for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
zone	string	True	<p>JSON string containing a value that indicates the Kubernetes zone for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
region	string	True	<p>JSON string containing a value that indicates the Kubernetes region for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
instanceType	string	True	<p>JSON string containing a value that indicates the Kubernetes instance type for the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
kernelVersion	string	True	<p>JSON string containing a value that indicates the kernel version used by the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
osImage	string	True	<p>JSON string containing a value that indicates the operating system image used by the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
numCpus	string	True	<p>JSON string containing a value that indicates the number of CPUs assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>
memory	string	True	<p>JSON string containing a value that indicates the amount of memory assigned to the node.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 254</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the node.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The node is running normally</li> <li>• "provisioning" - The node is in the process of being provisioned</li> <li>• "discovering" - Aspects of the node are in the process of being discovered</li> <li>• "pending" - The node is scheduled for discovery</li> <li>• "failed" - The node is in a failure state</li> <li>• "unknown" - The state of the node cannot be determined</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

## Definitions

## See Definitions

### labels

Name	Type	Required	Description
name	string	True	JSON string containing the label name Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$</code>"</li></ul>
value	string	True	JSON string containing the label value Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>"</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

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

## invalidParams

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

# Credential

## Credential overview

The Credential API provides CRUD (Create-Read-Update-Delete) access to credential resources to securely persist objects containing sensitive information.

## Create a new credential

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

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

### Parameters

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

### Request Body

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

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

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>



Name	Type	Required	Description
keyStore	keyStore	True	<p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.</li> </ul>
valid	string	False	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

- stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by `by013` the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "myCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

## Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 127</li></ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>

Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by `by017` the name does not

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

### Example response

```

{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

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

Service (S3) access.

### Example response

- Extended validation is

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

with a value containing a base64-encoded S3 access

### Response

Status: 400, Bad request

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



## Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.

Defined values are:

- Conforms to the base64 Encoded Data Schema  
No limits are placed on the lengths of the strings.

Hash mapping strings to string

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### invalidParams

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

### invalidFields

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

## List all credentials

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

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

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
continue		query	False	Indicates the token to resume listing from. <p>URL examples:</p> <pre>"continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</pre> <p>OpenAPI examples:</p> <pre>"&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</pre>

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

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"

## Response

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

Name	Type	Required	Description
items	array[Any of: <a href="#">credential_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-credentials",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "myCert"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "kubeconfig"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "password"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

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

### Example response

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

### Response

Status: 400, Bad request

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

### Example error response

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

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### credential\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 127</li></ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <p>"generic" - The credential is a generic collection of data. This is</p>

Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

must exist within the keyStore with a value containing a base64-encoded cleartext password:

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a

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

type\_astra\_metadata\_list

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

invalidParams

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

is performed as follows:

- A "certificate" string must exist within the keyStore, with a value containing a base64-encoded

## Retrieve a credential

GET /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Returns the stored Credential API resource in the JSON response body.

### Parameters

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

### Response

Status: 200, Returns the stored Credential API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-credential"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

value containing a base64-encoded PEM private key.

- "s3" - Indicates the credentials are for Simple Storage Service (S3) access.
- Extended validation is performed as follows:
  - An "accessKey" string must exist within the keyStore with a value containing a base64-encoded S3 access key.
  - An "accessSecret" string must exist within the keyStore with a value containing a base64-encoded S3 access secret.

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>



Name	Type	Required	Description
valid	string	True	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by `by037` the name does not

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

### Example response

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

keyStore, with a value containing a base64-encoded PEM

encoded private key

exist within the keyStore, with a value containing a base64-encoded PEM private

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

Service (S3) access.

### Example response

- Extended validation is

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

with a value containing a base64-encoded S3 access

### Response

Status: 400, Bad request

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

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

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

## Error

Status: 404, Not found

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

## Example error response

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

## Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

invalidParams

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

## Modify a credential

PUT /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

### Parameters

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

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-credential"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 127</li> </ul>

Name	Type	Required	Description
keyType	string	False	<p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore.</p> <p>Extended update constraints:</p> <ul style="list-style-type: none"> <li>• If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>• If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>• If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>• If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail.</li> </ul> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>



Name	Type	Required	Description
keyStore	keyStore	False	<p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.</li> </ul>
valid	string	False	<p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The credential is eligible for use.</li> <li>• "false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

- stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by045 the name does not

Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "oldCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

## Response

Status: 204, Indicates if the credential resource was updated.

## Response

Status: 401, Unauthorized

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

## Example response

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

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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"
}
```

keyStore with a value containing a base64-encoded S3 access

### Response

Status: 409, Conflict

string must exist

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

### Example response

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

### Error

Status: 404, Not found

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

### Example error response

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

**Definitions**

## See Definitions

### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format.

Defined values are:

- Conforms to the base64 Encoded Data Schema  
No limits are placed on the lengths of the strings.

Hash mapping strings to string

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

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

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

### invalidParams

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

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## 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	False	



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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to entitlement resources to represent which features or capacities are enabled by the licenses and subscriptions active for an account.

## List all entitlements

GET /accounts/{account\_id}/core/v1/entitlements

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: product,entitlementType,entitlementValue,allocation</li> </ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">entitlement_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-entitlements",
  "version": "1.0",
  "items": [
    [
      "Astra SDS",
      "capacity",
      "2",
      null
    ],
    [
      "Astra Enterprise",
      "clusters",
      "100",
      "5e9fe8f7-4c54-441c-ac94-fd8451f9ca38"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### entitlement\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-entitlement"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

<b>Name</b>	<b>Type</b>	<b>Required</b>	<b>Description</b>
allocation	string	False	JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema.
product	string	False	JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema.
productVersion	string	False	JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema.
entitlementType	string	True	JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema.
entitlementValue	string	True	JSON string containing the capacity associated with the entitlement. String contents not validated by the schema.
entitlementConsumption	string	False	JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema.

Name	Type	Required	Description
sourceLicense	string	False	JSON string containing the license object ID that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceSubscription	string	False	JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an entitlement

GET /accounts/{account\_id}/core/v1/entitlements/{entitlement\_id}

Returns the stored Entitlement API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
entitlement_id	string	path	True	ID of the entitlement collection to list

### Response

Status: 200, Returns the stored Entitlement API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-entitlement"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema.
product	string	False	JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema.
productVersion	string	False	JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema.
entitlementType	string	True	JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema.

Name	Type	Required	Description
entitlementValue	string	True	JSON string containing the capacity associated with the entitlement. String contents not validated by the schema.
entitlementConsumption	string	False	JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema.
sourceLicense	string	False	<p>JSON string containing the license object ID that the entitlement is sourced from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
sourceSubscription	string	False	<p>JSON string containing the ID of the subscription object that the entitlement is sourced from.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the entitlement becomes valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-entitlement",
  "version": "1.0",
  "id": "8bdafc19-bde6-5f45-9808-4893c845c9f5",
  "product": "Astra SDS",
  "productVersion": "1.0",
  "entitlementType": "capacity",
  "entitlementValue": "2",
  "entitlementConsumption": "1",
  "sourceLicense": "c8aa757a-5318-489f-8134-a2a1a6956a3e",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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 CRUD (Create-Read-Update-Delete) access to event resources to provide access to events occurring in the system.

### List all events

GET /accounts/{account\_id}/core/v1/events

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,summary</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">event_1.4_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-events",
  "version": "1.4",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "2064d1c1-4bc6-466e-9c30-b941a11be16a",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

event\_1.4\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-event"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li><li>• "1.4"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a dot notation (.) hierarchical name for the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
sequenceCount	number	True	<p>JSON number containing a sequence count.</p> <p>The number is incremented by the system each time a new event is received.</p>
summary	string	True	<p>JSON string containing the short-form (less than 40 characters) summary of the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	<p>JSON string containing a timestamp that indicates when an event occurred.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z]*\$"</code></li> </ul>

Name	Type	Required	Description
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-[a-zA-Z]+\$"</code></li> </ul>



Name	Type	Required	Description
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	JSON object containing additional event-specific information.
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an event

GET /accounts/{account\_id}/core/v1/events/{event\_id}

Returns the stored Event API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
event_id	string	path	True	ID of the event collection to list

### Response

Status: 200, Returns the stored Event API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-event"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> <li>"1.4"</li> </ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>"</li> </ul>
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z-]*\$"</code></li> </ul>
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code></li> </ul>
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>

Name	Type	Required	Description
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>

Name	Type	Required	Description
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
accountID	string	False	<p>JSON string containing the account ID associated with an event. Only included for events associated with an account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	<p>JSON object containing additional event-specific information.</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



**Example response**

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-event",
  "version": "1.4",
  "id": "c32df10b-8cfb-5a1e-9510-2a262b476009",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5dfd1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Execution Hook

### Execution Hook overview

The Execution Hook API provides CRUD (Create-Read-Update-Delete) access to executionHook resources in order to allow simple management of execution hooks. Execution hooks contain additional configuration and references to a hook source resource.

### Create a new execution hook

POST /accounts/{account\_id}/core/v1/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>

## Request Body

Indicates the desired values for the Execution Hook API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"><li>• "netapp" - NetApp provided execution hook.</li><li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li></ul>



Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>

Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run.</li> </ul> <p>The default value is "true".</p>

Name	Type	Required	Description
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

## Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>

Name	Type	Required	Description
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "id": "946e60cb-980b-5374-9e6e-9fe1f6780352",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.

Name	Type	Required	Description
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

#### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all execution hooks

GET /accounts/{account\_id}/core/v1/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHook_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### executionHook\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.

Name	Type	Required	Description
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>

Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run.</li> </ul> <p>The default value is "true".</p>

Name	Type	Required	Description
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an execution hook

GET /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHook"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>

Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "id": "946e60cb-980b-5374-9e6e-9fe1f6780352",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	



Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
 If not specified on create, a metadata object will be created with no labels.  
 If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an execution hook

PUT /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	False	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	False	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>

Name	Type	Required	Description
stage	string	False	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	False	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an execution hook

DELETE /accounts/{account\_id}/core/v1/executionHooks/{executionHook\_id}

Removes the specified Execution Hook API resource.

### Side Effects

- The deleted execution hook will no longer run as part of future actions.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 204, Indicates if the executionHook resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

#### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### Create a new execution hook for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource

## Request Body

Indicates the desired values for the Execution Hook API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"><li>• "netapp" - NetApp provided execution hook.</li><li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li></ul>

Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>



Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>

Name	Type	Required	Description
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

## Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHook"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63 Name must be unique across all execution hook resources.</li></ul>

Name	Type	Required	Description
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "id": "946e60cb-980b-5374-9e6e-9fe1f6780352",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.

Name	Type	Required	Description
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

#### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the execution hooks for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHook_1.2_get_r</a> <a href="#">esponse_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	

Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

If not specified on create, a metadata object will be created with no labels.

If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### executionHook\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-executionHook"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>

Name	Type	Required	Description
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>

Name	Type	Required	Description
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run.</li> </ul> <p>The default value is "true".</p>

Name	Type	Required	Description
description	string	False	JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an execution hook for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHook"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	True	JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>

Name	Type	Required	Description
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	True	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
matchingContainers	array[ <a href="#">matchingContainers</a> ]	False	<p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p>
matchingImages	array[string]	False	<p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 4095</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
action	string	True	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>

Name	Type	Required	Description
stage	string	True	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	True	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	True	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema            If not specified on create, a metadata object will be created with no labels.            If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "id": "946e60cb-980b-5374-9e6e-9fe1f6780352",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	True	JSON string identifying the match criteria type.
value	string	True	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_k8s\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### matchingContainers

Name	Type	Required	Description
podName	string	False	JSON string of matching container's pod name.
podLabels	array[ <a href="#">type_k8s_label</a> ]	False	JSON array of label objects of matching container's pod's labels.
containerImage	string	False	JSON string of matching container's image.
containerName	string	False	JSON string of matching container's name.
namespaceName	string	False	JSON string of matching container's pod's namespace name.

### type\_astra\_label

Name	Type	Required	Description
name	string	True	



Name	Type	Required	Description
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify an execution hook for an app

PUT /accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • 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"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63 Name must be unique across all execution hook resources.</li> </ul>
hookType	string	False	<p>JSON string defining the hook type.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "netapp" - NetApp provided execution hook.</li> <li>• "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only.</li> </ul>
matchingCriteria	array[ <a href="#">matchingCriteria</a> ]	False	<p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 10</li> </ul>
action	string	False	<p>JSON string indicating which action the execution hook will run assuming the match criteria are met.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "snapshot"</li> <li>• "backup"</li> <li>• "restore"</li> </ul>

Name	Type	Required	Description
stage	string	False	<p>JSON string indicating the stage during the action that the hook will be executed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pre" - The execution hook will be run before the specified action.</li> <li>• "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post".</li> </ul>
hookSourceID	string	False	<p>JSON string containing the hook source ID that is run through this execution hook.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
arguments	array[string]	False	<p>JSON array of JSON strings for the arguments to the source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> <li>• Maximum items: 16</li> <li>• Minimum length: 0</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
appID	string	False	<p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
enabled	string	False	<p>JSON string that indicates if the execution hook is enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will be run as specified.</li> <li>• "false" - The execution hook is disabled and will never run. The default value is "true".</li> </ul>
description	string	False	<p>JSON string containing a user-specified description for the hook source.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### matchingCriteria

Name	Type	Required	Description
type	string	False	JSON string identifying the match criteria type.
value	string	False	JSON string containing a regex to match for the given match type. Regex syntax: <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete an execution hook for an app

DELETE

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHooks/{executionHook\_id}

Removes the specified Execution Hook API resource.

### Side Effects

- The deleted execution hook will no longer run as part of future actions.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
executionHook_id	string	path	True	ID of the executionHook collection to list

### Response

Status: 204, Indicates if the executionHook resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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 provides CRUD (Create-Read-Update-Delete) access to allow the disabling of preloaded "netapp" execution hooks for a specific application.

### 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.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
app_id	string	path	True	ID of the containing app resource

## Request Body

Indicates the desired values for the Execution Hook Override API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-executionHookOverride"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>

Name	Type	Required	Description
enabled	string	True	<p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> <li>"true" - The execution hook is enabled and will run in a specified order</li> <li>"false" - The execution hook is disabled and cannot run</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false"
}
```

### Response



Status: 201, Returns the newly created executionHookOverride resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li></ul>

Name	Type	Required	Description
enabled	string	True	<p>JSON string that indicates whether the execution hook is enabled for the specified application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	<p>JSON string containing the associated ID of the application with which the override is linked.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">executionHookOverride_1</a> , <a href="#">.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-executionHookOverrides",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "36d06222-bd0c-4897-89c2-c16dd9265e12",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    },
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "f8d1ce66-6c0e-4d3a-96c5-a5e76669442d",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "36b076ae-b7c4-4e96-a323-ed167ede74ba",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### executionHookOverride\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Retrieve an execution hook override resource

GET

/accounts/{account\_id}/k8s/v1/apps/{app\_id}/executionHookOverrides/{executionHookOverride\_id}

Returns the stored Execution Hook Override API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
executionHookOverride_id	string	path	True	ID of the executionHookOverride collection to list

### Response

Status: 200, Returns the stored Execution Hook Override API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-executionHookOverride"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	True	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	True	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	True	JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "id": "c11af802-5e53-5897-8cd9-2de730494be3",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false",
  "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	

Name	Type	Required	Description
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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.

## 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: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
executionHookID	string	False	JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp".</li> </ul>
enabled	string	False	JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The execution hook is enabled and will run in a specified order</li> <li>• "false" - The execution hook is disabled and cannot run</li> </ul>
appID	string	False	JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-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	False	
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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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".

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Feature

## Feature overview

The Feature API provides read-only access to feature flag resources in order to determine which features are enabled or disabled in the system.

## List all features

GET /accounts/{account\_id}/core/v1/features

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"
skip	string	query	False	Indicates the number of resources to skip over when listing a collection.  URL examples: "skip=1"  OpenAPI examples: "1"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">feature_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-features",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	

### feature\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-feature"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The feature flag is enabled.</li> <li>• "false" - The feature flag is disabled.</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a feature

GET /accounts/{account\_id}/core/v1/features/{feature\_id}

Returns the stored Feature API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
feature_id	string	path	True	ID of the feature collection to list

### Response

Status: 200, Returns the stored Feature API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-feature"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
isEnabled	string	True	JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The feature flag is enabled.</li> <li>• "false" - The feature flag is disabled.</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-feature",
  "version": "1.0",
  "id": "c4fdb3b8-9ca8-523d-b9d9-f7727b753612",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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 CRUD (Create-Read-Update-Delete) access to Astra group resources.

## Create a new group

POST /accounts/{account\_id}/core/v1/groups

Indicates the desired values for the Group API resource to be created.



## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates the desired values for the Group API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
name	string	False	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"><li>first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li><li>authID, otherwise. if not specified on update, the value will be preserved without modification. Defined values are:<ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 256</li></ul></li></ul>

Name	Type	Required	Description
authProvider	string	True	The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> <li>"ldap"</li> </ul>
authID	string	True	The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 256</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.0",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com"
}
```

## Response

Status: 201, Returns the newly created group resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"><li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li><li>• authID, otherwise. if not specified on update, the value will be preserved without modification.</li></ul> Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 256</li></ul>

Name	Type	Required	Description
authProvider	string	True	<p>The authentication provider for the group resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-group",
  "version": "1.0",
  "id": "d8560bb2-7c87-5331-a78d-4e870b22e9a9",
  "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	False	
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	False	
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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

### Definitions



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all groups

GET /accounts/{account\_id}/core/v1/groups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,authProvider, authID</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: <continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">group_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-groups",
  "version": "1.0",
  "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	False	
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	False	
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	False	
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\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. if not specified on update, the value will be preserved without modification. Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
authProvider	string	True	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "Idap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a group

GET /accounts/{account\_id}/core/v1/groups/{group\_id}

Returns the stored Group API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the group collection to list

### Response

Status: 200, Returns the stored Group API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-group"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. if not specified on update, the value will be preserved without modification. Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
authProvider	string	True	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	True	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-group",
  "version": "1.0",
  "id": "d8560bb2-7c87-5331-a78d-4e870b22e9a9",
  "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	False	
status	string	True	
correlationID	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	False	
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	False	
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	False	
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 <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
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: <ul style="list-style-type: none"> <li>"application/astra-group"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> <li>• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,</li> <li>• authID, otherwise. if not specified on update, the value will be preserved without modification. Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
authProvider	string	False	<p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ldap"</li> </ul>
authID	string	False	<p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-group",
  "version": "1.0",
  "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	False	

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	False	
status	string	True	
correlationID	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	False	
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	False	
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	False	
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	False	
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	False	
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 provides CRUD (Create-Read-Update-Delete) access to hookSource resources in order to allow simple management of hook sources separate from the management of execution hook resources. For example, a single hook source can be referenced by multiple execution hooks which avoid duplicate hook sources and make it a single API call to update one hook source, even if it is used by multiple execution hook resources.

### Create a new hook source

POST /accounts/{account\_id}/core/v1/hookSources

Indicates the desired values for the Hook Source API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

### Request Body

Indicates the desired values for the Hook Source API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-hookSource"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
name	string	True	JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63 The name is required to be unique within all hook source resources.</li> </ul>
sourceType	string	True	JSON string defining the hook source type. Defined values are: <ul style="list-style-type: none"> <li>"script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>

Name	Type	Required	Description
source	string	True	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "name": "Payroll script",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for payroll"
}
```

## Response

Status: 201, Returns the newly created hookSource resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all hook sources

GET /accounts/{account\_id}/core/v1/hookSources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">hookSource_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-hookSources",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "2d6154dd-6863-4a26-8017-6be092b8b0bd",
      "name": "Payroll script",
      "private": "false",
      "preloaded": "false",
      "sourceType": "script",
      "source": "ZWNobyAiVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
      "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "b71c6793-aa9b-4654-92ef-60663a0aedac",
      "name": "Payroll script",
      "private": "true",
      "preloaded": "false",
      "sourceType": "script",
      "sourceMD5Checksum": "6469094cb279f6d91358bc5062d15baf",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-08T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-08T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "682fe9d2-52d2-4c30-bcec-ecefddde359c",
      "name": "NetApp preloaded ",

```

```

    "private": "true",
    "preloaded": "false",
    "sourceType": "script",
    "sourceMD5Checksum": "7864495443c1087104520a320a2225c9",
    "description": "NetApp Postgres preloaded snapshot pre and post",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-07-12T12:24:52.256624Z",
      "modificationTimestamp": "2020-07-12T12:24:52.256624Z",
      "createdBy": "4428cfd4-27fd-4248-9f49-bd3a02043ab8"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```



## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### hookSource\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>

Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a hook source

GET /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Returns the stored Hook Source API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

### Response

Status: 200, Returns the stored Hook Source API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-hookSource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	True	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	True	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>



Name	Type	Required	Description
sourceType	string	True	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	True	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a hook source

PUT /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.

- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.
- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-hookSource"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a user-specified name for the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul> <p>The name is required to be unique within all hook source resources.</p>
private	string	False	<p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source value is private and will not be exposed through the API.</li> <li>• "false" - The source value is not private and will be exposed through the API.</li> </ul>
preloaded	string	False	<p>JSON string that indicates whether the source was preloaded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The source was preloaded.</li> <li>• "false" - The source was not preloaded. Preloaded hook source resources are read only.</li> </ul>



Name	Type	Required	Description
sourceType	string	False	<p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> <li>• "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned.</li> </ul>
source	string	False	<p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 131072</li> <li>• Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64.</li> </ul>
sourceMD5Checksum	string	False	<p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "^[0-9a-fA-F]{32}\$"</li> </ul>
description	string	False	<p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "source": "ZWNobyAiVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for order processing v2"
}
```

### Response

Status: 204, Indicates if the hookSource resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a hook source

DELETE /accounts/{account\_id}/core/v1/hookSources/{hookSource\_id}

Removes the specified Hook Source API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
hookSource_id	string	path	True	ID of the hookSource collection to list

### Response

Status: 204, Indicates if the hookSource resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 API Resource API provides Read ® access to Kubernetes API resources to filter the ones supported by Astra on a given cluster.

## List the K8s API resources for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/apiResources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,kind,apiVersion</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: apiResource_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-apiResources",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "ClusterRole",
      "rbac.authorization.k8s.io/v1"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "ClusterRoleBinding",
      "rbac.authorization.k8s.io/v1"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### apiResource\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-apiResource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
apiVersion	string	True	<p>JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a></p>
kind	string	True	<p>JSON string representing the kind of the resource, as set in or by Kubernetes. The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a></p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a K8s API resource

GET

```
/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apiResources/{apiResource_id}
```

Returns the specific API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
apiResource_id	string	path	True	ID of the apiResource collection to list

## Response

Status: 200, Returns the specific API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-apiResource"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
apiVersion	string	True	JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a>

Name	Type	Required	Description
kind	string	True	<p>JSON string representing the kind of the resource, as set in or by Kubernetes.</p> <p>The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated.</p> <p>More info:  <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a></p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```

{
  "type": "application/astra-apiResource",
  "version": "1.0",
  "id": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "kind": "ClusterRole",
  "apiVersion": "rbac.authorization.k8s.io/v1",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# LDAP Group

## LDAP Group overview

The LDAP Group API provides read-only access to LDAP groups within the configured LDAP server.

## List all LDAP groups

GET /accounts/{account\_id}/core/v1/ldapGroups

Returns a JSON array of JSON objects containing the results of the request URL.



## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,cn,dn</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.

Name	Type	Required	Description
items	array[Any of: ldapGroup_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-ldapGroups",
  "version": "1.0",
  "items": [
    [
      "4a461f57-70e6-5732-882e-8d5f684f15a1",
      "boulder_sysadmins",
      "cn=boulder_sysadmins,ou=groups,dc=example,dc=com"
    ],
    [
      "da4bbb6f-8f2c-57eb-a9cf-6eefbf9e35d",
      "rtp_sysadmins",
      "cn=rtp_sysadmins,ou=groups,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### ldapGroup\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-ldapGroup"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter



Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve an LDAP group

GET /accounts/{account\_id}/core/v1/ldapGroups/{ldapGroup\_id}

Returns a JSON object representing the stored LDAP resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
ldapGroup_id	string	path	True	ID of the ldapGroup collection to list

### Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-ldapGroup"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-ldapGroup",
  "version": "1.0",
  "id": "cb05a289-a7a1-502c-a2bc-7e75dba8fddc",
  "cn": "boulder_sysadmins",
  "dn": "cn=boulder_sysadmins,ou=groups,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## LDAP User

### LDAP User overview

The LDAP User API provides read-only access to LDAP users within the configured LDAP server.

### List all LDAP users

GET /accounts/{account\_id}/core/v1/ldapUsers

Returns a JSON array of JSON objects containing the results of the request URL.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,cn,dn</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.



Name	Type	Required	Description
items	array[Any of: ldapUser_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-ldapUsers",
  "version": "1.0",
  "items": [
    [
      "b4bcef18-14ad-5bc1-91ce-3cce15aa8791",
      "John Doe",
      "cn=John Doe,ou=people,dc=example,dc=com"
    ],
    [
      "98b10d6f-8693-555f-b258-70de4cc7301f",
      "Jane Doe",
      "cn=Jane Doe,ou=people,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### ldapUser\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-ldapUser"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
email	string	False	JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 63</li> </ul>
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an LDAP user

GET /accounts/{account\_id}/core/v1/ldapUsers/{ldapUser\_id}

Returns a JSON object representing the stored LDAP resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
ldapUser_id	string	path	True	ID of the ldapUser collection to list

## Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-ldapUser"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
email	string	False	JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 3</li> <li>Maximum length: 63</li> </ul>

Name	Type	Required	Description
firstName	string	False	JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
lastName	string	False	JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
cn	string	False	JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
dn	string	False	JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to RFC 4514</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## Example response

```
{
  "type": "application/astra-ldapUser",
  "version": "1.0",
  "id": "2add73ff-89dc-5ff1-be85-39d97549556d",
  "email": "<a href="
mailto:johndoe@example.com">johndoe@example.com</a>",
  "firstName": "John",
  "lastName": "Doe",
  "cn": "John Doe",
  "dn": "cn=John Doe,ou=people,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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 provides CRUD (Create-Read-Update-Delete) access to license resources in order to represent licenses loaded into the account.

### Create a new license

POST /accounts/{account\_id}/core/v1/licenses

Indicates the desired values for the License API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates the desired values for the License API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"><li>Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated from the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

## Response

Status: 201, Returns the newly created license resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	<p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated from the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>



Name	Type	Required	Description
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
product	string	True	<p>JSON string containing the product string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	<p>JSON string containing the version string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	<p>JSON string containing the serial number string extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	True	<p>JSON string containing the package value extracted from the license.            Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
capacity	string	True	<p>JSON string containing the capacity extracted from the license.</p>
capacity2	string	True	<p>JSON string containing the secondary capacity extracted from the license.</p>

Name	Type	Required	Description
addons	array[ <a href="#">addons</a> ]	False	<p>JSON array of JSON objects containing the list of add-ons from the license.</p> <p>An add-on is a change in license occurring at a potential future date.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

**Definitions**



## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema.</li> </ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all licenses

GET /accounts/{account\_id}/core/v1/licenses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,product</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: license_1.0_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-licenses",
  "version": "1.0",
  "items": [
    [
      "c8aa757a-5318-489f-8134-a2a1a6956a3e",
      "Astra SDS"
    ],
    [
      "0f7cc03d-9afc-4192-af7f-b29ab24f8f2a",
      "Astra Enterprise"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions



## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### license\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-license"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated from the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
validFromTimestamp	string	True	JSON string containing a timestamp indicating when the license becomes valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	JSON string containing a timestamp indicating when the license is no longer valid. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	JSON string containing the product string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a license

GET /accounts/{account\_id}/core/v1/licenses/{license\_id}

Returns the stored License API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
license_id	string	path	True	ID of the license collection to list

### Response

Status: 200, Returns the stored License API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-license"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>



Name	Type	Required	Description
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated from the Credential API. Only present for Astra Data Store licenses.</p> <p>Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>



Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a license

PUT /accounts/{account\_id}/core/v1/licenses/{license\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
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: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated from the Credential API. Only present for Astra Data Store licenses. Defined value are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
isEvaluation	string	False	<p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	False	<p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	False	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	False	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	False	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	False	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	False	<p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

Name	Type	Required	Description
capacity	string	False	JSON string containing the capacity extracted from the license.
capacity2	string	False	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

## Response

Status: 204, Indicates if the license resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

Name	Type	Required	Description
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>String contents not validated by the schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[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.

### Side Effects

- Entitlements are recalculated to remove 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 <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
license_id	string	path	True	ID of the license collection to list

### Response

Status: 204, Indicates if the license resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to managed cluster resources in order to represent managed Kubernetes clusters.

### Create a new managed cluster

POST /accounts/{account\_id}/topology/v1/managedClusters

Indicates desired values for the Managed Cluster API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

#### Request Body

Indicates desired values for the Managed Cluster API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-managedCluster"</li></ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
defaultStorageClass	string	False	JSON string containing a storageClass ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "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	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-managedCluster"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>



Name	Type	Required	Description
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>

Name	Type	Required	Description
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema              If not specified on create, a metadata object will be created with no labels.              If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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	

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all managed clusters

GET /accounts/{account\_id}/topology/v1/managedClusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,managedState</code></li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">managedCluster_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-managedClusters",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object 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\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>

Name	Type	Required	Description
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>

Name	Type	Required	Description
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> <p>If not included, it has not yet been discovered.</p>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a managed cluster

GET /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Returns the stored Managed Cluster API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 200, Returns the stored Managed Cluster API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-managedCluster"</li> </ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>

Name	Type	Required	Description
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>

Name	Type	Required	Description
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>



Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "true",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a managed cluster

PUT /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-managedCluster"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1" • "1.2"

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	False	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The clusters default storage class supports snapshots</li> <li>• "partial" - The cluster has only storageClasses that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached.</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>



Name	Type	Required	Description
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState.</p> <p>The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>

Name	Type	Required	Description
inUse	string	False	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment.</p> <p>For Kubernetes clusters, this is the full Kubernetes version.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storageClass ID that corresponds to the default storage class, as set in Kubernetes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
metadata	<a href="#">type_astra_metadata_update</a>	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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 create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a managed cluster

DELETE /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Removes the specified Managed Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 204, Indicates if the managedCluster resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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

### Retrieve all metrics for an account

GET /accounts/{account\_id}/metrics

Returns all metrics for the account

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

### Response

Status: 200, Returns a OpenMetrics text document containing all metrics for the account.

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## 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	False	
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 CRUD (read-only) access to namespace resources in order to describe namespaces associated with a given cluster.

## List the namespaces for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>• example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	



Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-namespace"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 255</li> </ul>

Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c".</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>

Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	JSON array of JSON objects, each indicating a link relationship associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/namesp

aces/{namespace\_id}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
namespace_id	string	path	True	ID of the namespace collection to list

### Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetails]	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: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>

Name	Type	Required	Description
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>
links	array[ <a href="#">links</a> ]	True	<p>JSON array of JSON objects, each indicating a link relationship associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Metadata Schema</li></ul>

## Example response

```
{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed
cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "links": [
    {
      "rel": "canonical",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-
7e2376047e63"
    },
    {
      "rel": "collection",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-
b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
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	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">namespace_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-namespace"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>



Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	JSON array of JSON objects, each indicating a link relationship associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a cluster

GET

/accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/namespaces/{namespace\_id}

}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cluster_id	string	path	True	ID of the containing cluster resource
namespace_id	string	path	True	ID of the namespace collection to list

### Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetails]	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: <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>

Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	<p>JSON array of JSON objects, each indicating a link relationship associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed
cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "links": [
    {
      "rel": "canonical",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-
7e2376047e63"
    },
    {
      "rel": "collection",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-
b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters



### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List all namespaces

GET /accounts/{account\_id}/topology/v1/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: id,name,kubernetesLabels</li> </ul>

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: namespace_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	



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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-namespace"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 255</li> </ul>

Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c".</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>

Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	JSON array of JSON objects, each indicating a link relationship associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a 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 <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
namespace_id	string	path	True	ID of the namespace collection to list

### Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c".</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>



Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	<p>JSON array of JSON objects, each indicating a link relationship associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed
cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "links": [
    {
      "rel": "canonical",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-
7e2376047e63"
    },
    {
      "rel": "collection",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-
b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the namespaces for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource



Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,name,kubernetesLabels</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: namespace_1.1_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

namespace\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-namespace"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 255</li> </ul>



Name	Type	Required	Description
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c".</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[ <a href="#">type_astra_label</a> ]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>

Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	JSON array of JSON objects, each indicating a link relationship associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a namespace for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/namespaces

/ {namespace\_id}

Returns the stored Namespace API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
namespace_id	string	path	True	ID of the namespace collection to list

### Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-namespace"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
namespaceState	string	True	<p>JSON string containing a value indicating the state of the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The namespace has been found in the cluster</li> <li>• "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace</li> </ul>
namespaceStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c".</p> <p>If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
kubernetesLabels	array[type_astra_label]	False	<p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Kubernetes Label Array Schema</li> </ul>

Name	Type	Required	Description
clusterID	string	True	<p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
systemType	string	False	<p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system"</li> <li>• "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring"</li> <li>• "openshift" - An OpenShift system namespace, for example, "openshift-monitoring"</li> <li>• "rke" - A Rancher namespace, for example, "cattle-logging"</li> <li>• "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system"</li> </ul>

Name	Type	Required	Description
links	array[ <a href="#">links</a> ]	True	<p>JSON array of JSON objects, each indicating a link relationship associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum items: 2</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed
cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "links": [
    {
      "rel": "canonical",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-
7e2376047e63"
    },
    {
      "rel": "collection",
      "href": "https://www.astra.io/accounts/0b311ae7-d89a-4a11-a52c-
1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-
b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### links

Name	Type	Required	Description
rel	string	True	JSON string containing the type of relation that the link indicates. Defined values are: <ul style="list-style-type: none"><li>"canonical" - The preferred link for accessing the resource</li><li>"collection" - The collection that the resource belongs to</li></ul>
href	string	True	JSON string containing the link. Defined values are:

### 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	

Name	Type	Required	Description
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 CRUD (Create-Read-Update-Delete) access to events with a notification destination.

### List all notifications

GET /accounts/{account\_id}/core/v1/notifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>• example: id,summary</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p> <ul style="list-style-type: none"> <li>• example: 4</li> </ul>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> <li>example: true</li> </ul>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">notification_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-notifications",
  "version": "1.3",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "275a8c6f-ebf6-4d10-b671-77d1b8c7c0a6",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>• "true" - The banner is dismissible</li><li>• "false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

notification\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-notification"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a dot notation (.) hierarchical name for the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
sequenceCount	number	True	<p>JSON number containing a sequence count.</p> <p>The number is incremented by the system each time a new event is received.</p>
summary	string	True	<p>JSON string containing the short-form (less than 40 characters) summary of the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	<p>JSON string containing a timestamp that indicates when an event occurred.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z]*\$"</code></li> </ul>

Name	Type	Required	Description
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code></li> </ul>



Name	Type	Required	Description
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Included only for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	JSON object containing additional event-specific information.
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a notification

GET /accounts/{account\_id}/core/v1/notifications/{notification\_id}

Returns the stored Notification API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
notification_id	string	path	True	ID of the notification collection to list

### Response

Status: 200, Returns the stored Notification API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-notification"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> <li>"1.3"</li> </ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 79</li> </ul>
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
source	string	True	<p>JSON string containing the lowercase name of the service generating an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 19</li> <li>• Defined regex is: <code>"^[a-z-]*\$"</code></li> </ul>
resourceID	string	True	<p>JSON string containing the resource ID associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
additionalResourceIDs	array[string]	True	<p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events.</p> <p>If no additional resources are associated with the event, the array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
resourceType	string	True	<p>JSON string containing the media type of the resource associated with an event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 4</li> <li>• Maximum length: 79</li> <li>• Defined regex is: <code>"^application/astra-([a-zA-Z])+\$"</code></li> </ul>
correlationID	string	True	<p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> <li>• "indeterminate" - Indicates that the severity cannot be determined.</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> <li>• "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> <li>• "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733.</li> </ul>

Name	Type	Required	Description
class	string	True	<p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "system" - The event is related to an internal event or request.</li> <li>• "user" - The event is related to a user-initiated event or request.</li> <li>• "security" - The event is related to a security issue.</li> </ul>
description	string	True	<p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>
descriptionURL	string	False	<p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
correctiveAction	string	False	<p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 1023</li> </ul>

Name	Type	Required	Description
correctiveActionURL	string	False	<p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
visibility	array[string]	False	<p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional.</p> <p>If omitted, a user with any RBAC role can view the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
destinations	array[string]	False	<p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> <li>• "banner" - The event is marked as a banner.</li> <li>• "support" - The event is marked as a support-related event.</li> </ul>

Name	Type	Required	Description
resourceURI	string	False	<p>JSON string containing the URI associated with the event. Only included for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURL	array[string]	False	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
resourceMethod	string	False	<p>JSON string containing the HTTP method invoked. Included only for events related to API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "options" - OPTIONS API operation</li> <li>• "post" - POST API operation</li> <li>• "get" - GET API operation</li> <li>• "put" - PUT API operation</li> <li>• "delete" - DELETE API operation</li> </ul>

Name	Type	Required	Description
resourceMethodResult	string	False	<p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-5][0-9]{2}\$"</code></li> </ul>
userID	string	False	<p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
accountID	string	False	<p>JSON string containing the account ID associated with an event. Only included for events associated with an account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
data	<a href="#">data</a>	False	<p>JSON object containing additional event-specific information.</p>
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>



## Example response

```
{
  "type": "application/astra-notification",
  "version": "1.3",
  "id": "03c645d6-75f0-59b0-95f2-862ae344ea27",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5df1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "destinations": [
    "notification"
  ],
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  }
}
```

```
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

data

JSON object containing additional event-specific information.

Name	Type	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none"><li>"true" - The banner is dismissible</li><li>"false" - The banner is not dismissible</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Package

### Package overview

The Package API provides CRUD (Create-Read-Update-Delete) access to package resources in order to represent installable software packages.

### Create a new package

POST /accounts/{account\_id}/core/v1/packages

Indicates desired values for the Package API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>

## Request Body

Indicates desired values for the Package API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-package"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 31</li></ul> Example values are: <ul style="list-style-type: none"><li>"acc"</li><li>"acs"</li><li>"trident"</li></ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"><li>Conforms to the SemVer Schema</li></ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"><li>"install"</li><li>"patch"</li></ul>

Name	Type	Required	Description
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.
severityLevel	string	True	<p>JSON string describing the severity level of this patch/installation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
images	array[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.



Name	Type	Required	Description
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example request

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-provider",
      "imageTag": "1.3.116",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-backend-metrics",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "credentials",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c322445654e33642da781a161f1be239853dae33deaf
c"
    }
  ],
  "files": [
    {
      "fileName": "astra_control_center_min.yaml",
      "fileIdentifier": "astra_min",
      "fileMediaType": "application/x-yaml",
      "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZWNzZWQgZmlsZSBjb250ZW50"
    }
  ],
  "dependencies": [
    {
```

```

    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.22"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]
}

```

## Response

Status: 201, Returns the newly created package resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> Example values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.

Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch/installation.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package.            After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete".            Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```



```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZXNzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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 should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

### images

Name	Type	Required	Description
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this docker image. It should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li> </ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install/upgrade the current image.

dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>



Name	Type	Required	Description
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[ <a href="#">dependsOnComponents</a> ]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
fileIdentifier	string	True	<p>JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	<p>JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a>. In addition, application/x-yaml or application/x-yaml for yaml files is supported.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	<p>JSON string containing the file content. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### type\_astra\_stateTransitions

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

#### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all packages

GET /accounts/{account\_id}/core/v1/packages

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,packageName  ,packageVersion  ,softwareType</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: package_1.0_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-packages",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "acc",
      "22.01.0",
      "install"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "acc",
      "22.01.1",
      "patch"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateTransitions

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### dependsOnImages

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this docker image. It should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

## images

Name	Type	Required	Description
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
imagePath	string	True	JSON string containing the path to this docker image. It should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"><li>• Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li></ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install/upgrade the current image.

## dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[ <a href="#">dependsOnComponents</a> ]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

#### files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
fileIdentifier	string	True	<p>JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	<p>JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a>. In addition, application/x-yaml or application/x-yaml for yaml files is supported.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	<p>JSON string containing the file content. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.



Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### package\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> Example values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.

Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch/installation. Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a package

GET /accounts/{account\_id}/core/v1/packages/{package\_id}

Returns the stored Package API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
package_id	string	path	True	ID of the package collection to list

### Response

Status: 200, Returns the stored Package API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-package"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
packageName	string	True	JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> Example values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> </ul>
packageVersion	string	True	JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
packageType	string	True	JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> <li>• "install"</li> <li>• "patch"</li> </ul>
bundleName	array[string]	False	JSON array of JSON strings containing the name of the bundle that the package is contained in.



Name	Type	Required	Description
severityLevel	string	True	<p>JSON string describing the severity level of this patch/installation.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "recommended" - Installation is recommended - Default value</li> <li>• "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches</li> </ul>
packageState	string	True	<p>JSON string containing a value indicating the operational state of the package.            After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete".            Defined values are:</p> <ul style="list-style-type: none"> <li>• "verifying" - The package is in the process of being validated</li> <li>• "corrupt" - The package is corrupt</li> <li>• "incomplete" - The package is missing elements</li> <li>• "available" - All elements associated with the package are available and the package is ready for use</li> </ul>

Name	Type	Required	Description
packageStateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the State Transition Schema</li> </ul>
packageStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state".</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
images	array[images]	False	<p>JSON array of JSON objects, each containing a docker image that is part of the package.</p>
artifacts	array[artifacts]	False	<p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p>
files	array[files]	False	<p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p>

Name	Type	Required	Description
upgradableVersions	<a href="#">upgradableVersions</a>	False	JSON object containing the minimum and maximum versions that can be upgraded to the package version.
dependencies	array[ <a href="#">dependencies</a> ]	False	JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.</li> </ul>

## Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```

```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateTransitions

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### dependsOnImages

Name	Type	Required	Description
imagePath	string	True	JSON string containing the path to this docker image. It should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 1023</li></ul>
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

## images

Name	Type	Required	Description
imageName	string	True	JSON string containing the docker image name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
imagePath	string	True	JSON string containing the path to this docker image. It should not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
imageTag	string	True	JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
imageDigest	string	True	JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code></li> </ul>
dependsOnImages	array[ <a href="#">dependsOnImages</a> ]	False	JSON array of JSON objects describing the images required to install/upgrade the current image.

## dependsOnComponents

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
versions	array[string]	True	JSON array of JSON strings defining the component version required to install the current image.

artifacts

Name	Type	Required	Description
artifactName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
artifactIdentifier	string	True	JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
artifactPath	string	True	JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 1023</li> </ul>
artifactVersion	string	False	JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
dependsOnComponents	array[ <a href="#">dependsOnComponents</a> ]	False	JSON array of JSON objects describing the installed components required to install/upgrade the current image.

#### files

Name	Type	Required	Description
fileName	string	True	JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
fileIdentifier	string	True	<p>JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
fileMediaType	string	True	<p>JSON string containing the file media-type. Defined values are any media type defined by <a href="#">IANA</a>. In addition, application/x-yaml or application/x-yaml for yaml files is supported.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 211</li> </ul>
fileContents	string	True	<p>JSON string containing the file content. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc?</li> </ul>

#### upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

Name	Type	Required	Description
minVersion	string	False	JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
maxVersion	string	False	JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

dependencies

Name	Type	Required	Description
componentName	string	True	JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentMinVersion	string	False	JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
componentMaxVersion	string	False	JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Delete a package

DELETE /accounts/{account\_id}/core/v1/packages/{package\_id}

Removes the specified Package API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
package_id	string	path	True	ID of the package collection to list

### Response

Status: 204, Indicates if the package resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response



Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to role binding resources in order to describe the relationships between the user-account pairs, or group-account pairs, along with the sets of permissions they are granted (roles).

### Create a new role binding for a group

POST /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
group_id	string	path	True	ID of the containing group resource

#### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples:</li> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>



Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "group",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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 <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
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" <ul style="list-style-type: none"><li>example: accountID,userI D,role</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"



Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.



Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding for a group

GET

/accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response



Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a group

PUT /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a group

DELETE

/accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
group_id	string	path	True	ID of the containing group resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding

POST /accounts/{account\_id}/core/v1/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>



Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all role bindings

GET /accounts/{account\_id}/core/v1/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: accountID,userI D,role</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding

GET /accounts/{account\_id}/core/v1/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	<p>JSON string containing the ID of an account resource.</p> <p>For create, this must match the account ID in the request URI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding

PUT /accounts/{account\_id}/core/v1/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters



Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
roleBinding_id	string	path	True	ID of the roleBinding collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	False	<p>JSON string containing a group resource ID.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema              If not specified on create, a nil UUID will be used.              Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource.            For create, this must match the account ID in the request URI.            Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles.            Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Create a new role binding for a user

POST /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource

### Request Body

Indicates desired values for the Role Binding API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
userID	string	False	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema                If not specified on create, a nil UUID will be used.                Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

### Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.



Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-roleBinding"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>"user"</li> <li>"group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.example.com'" ]</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid



## List the role bindings for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: accountID,userID,role</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">roleBinding_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### roleBinding\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-roleBinding"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>



Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.
groupID	string	True	JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
accountID	string	True	JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
role	string	True	JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"><li>• "viewer"</li><li>• "member"</li><li>• "admin"</li><li>• "owner"</li></ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*" ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under</li> </ul> </li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a role binding for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body.

If the request is against /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read.

If the request is against /accounts/{account\_id}/core/v1/groups/{group\_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-roleBinding"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
principalType	string	True	JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> <li>• "user"</li> <li>• "group"</li> </ul> For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required.
userID	string	True	JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul> If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.

Name	Type	Required	Description
groupID	string	True	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	True	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a role binding for a user

PUT /accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-roleBinding"
version	string	True	Version of the resource. Defined values are:  • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
userID	string	False	<p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
groupID	string	False	<p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create.</li> </ul>
accountID	string	False	<p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
role	string	True	<p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> <li>• "viewer"</li> <li>• "member"</li> <li>• "admin"</li> <li>• "owner"</li> </ul>

Name	Type	Required	Description
roleConstraints	array[string]	False	<p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> <li>• = Allow access to any resource: "roleConstraints": ["*"]</li> <li>• = deny access to all resources: "roleConstraints": []</li> <li>• = Allow access to a specific namespace resource only: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'" ]</li> <li>• = Allow access to a specific namespace and everything under it: "roleConstraints": [ "namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' " ]</li> <li>• = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [ "namespaces:kubernetesLabels='dev.examp</li> </ul> </li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

### Response

Status: 204, Indicates if the roleBinding resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a role binding for a user

DELETE

/accounts/{account\_id}/core/v1/users/{user\_id}/roleBindings/{roleBinding\_id}

Removes the specified Role Binding API resource.

### Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
user_id	string	path	True	ID of the containing user resource
roleBinding_id	string	path	True	ID of the roleBinding collection to list

### Response

Status: 204, Indicates if the roleBinding resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to schedule resources that allow various scheduled data protection operations to be defined.

## Create a new schedule for an app

POST /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules

Indicates desired values for the Schedule API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
app_id	string	path	True	ID of the containing app resource

## Request Body

Indicates desired values for the Schedule API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	False	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>

Name	Type	Required	Description
minute	string	False	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"            This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly".            It will be returned with value "0" for custom schedules.</code></li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>

Name	Type	Required	Description
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9] [1-2][0-9] [3][0-1]\$"</code> This field is only present if granularity is set to "monthly".</li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>

Name	Type	Required	Description
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
replicate	string	False	<p>JSON string indicating if the schedule should trigger AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

### Response

Status: 201, Returns the newly created schedule resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	<p>JSON string indicating the granularity of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly".</li> </ul>



Name	Type	Required	Description
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[0-7]\$" <p>This field is only present if granularity is set to "weekly".</p> </li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[1-9] [1-2][0-9] [3][0-1]\$" <p>This field is only present if granularity is set to "monthly".</p> </li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule should trigger AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid



## List the schedules for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name,granularity</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">schedule_1.3_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-schedules",
  "version": "1.3",
  "items": [
    [
      "0d6d20d6-8b7c-498a-b57b-5734210c209a",
      "Backup Schedule",
      "monthly"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### schedule\_1.3\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-schedule"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li><li>• "1.3"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".
granularity	string	True	JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>

Name	Type	Required	Description
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"            This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</code></li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>



Name	Type	Required	Description
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$"            This field is only present if granularity is set to "monthly".</code></li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule.</p> <p>For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported.</p> <p>For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule should trigger AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> <li>"true" - The schedule triggers AppMirror replication</li> <li>"false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false".</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a schedule

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Returns the stored Schedule API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

### Response

Status: 200, Returns the stored Schedule API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-schedule"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	True	JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> If not specified, the default value is "true".

Name	Type	Required	Description
granularity	string	True	<p>JSON string indicating the granularity of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	True	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</li> </ul>
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly".</li> </ul>

Name	Type	Required	Description
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[0-7]\$" <p>This field is only present if granularity is set to "weekly".</p> </li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: "[1-9] [1-2][0-9] [3][0-1]\$" <p>This field is only present if granularity is set to "monthly".</p> </li> </ul>
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p>

Name	Type	Required	Description
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code></li> </ul>
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
replicate	string	False	<p>JSON string indicating if the schedule should trigger AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a schedule

PUT /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-schedule"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li></ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	False	<p>JSON string containing a name of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
enabled	string	False	<p>JSON string indicating if a schedule is active.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule is active</li> <li>• "false" - The schedule is not active</li> </ul> <p>If not specified, the default value is "true".</p>
granularity	string	False	<p>JSON string indicating the granularity of the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "hourly"</li> <li>• "daily"</li> <li>• "weekly"</li> <li>• "monthly"</li> <li>• "custom"</li> </ul>
minute	string	False	<p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code></li> </ul> <p>This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</p>

Name	Type	Required	Description
hour	string	False	<p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"            This field is present if granularity is set to "daily", "weekly", or "monthly".</code></li> </ul>
dayOfWeek	string	False	<p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[0-7]\$"            This field is only present if granularity is set to "weekly".</code></li> </ul>
dayOfMonth	string	False	<p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$"            This field is only present if granularity is set to "monthly".</code></li> </ul>



Name	Type	Required	Description
recurrenceRule	string	False	<p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported.</p> <p>For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported.</p> <p>For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported.</p> <p>This field is only present if granularity is set to "custom".</p>
snapshotRetention	string	True	<p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: "^(0 ([1-9][0-9]*))\$"</li> </ul>
backupRetention	string	True	<p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• Defined regex is: "^(0 ([1-9][0-9]*))\$"</li> </ul>

Name	Type	Required	Description
bucketID	string	False	<p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
replicate	string	False	<p>JSON string indicating if the schedule should trigger AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The schedule triggers AppMirror replication</li> <li>• "false" - The schedule does not trigger AppMirror replication</li> </ul> <p>If not specified, the default value is "false".</p>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a schedule

DELETE /accounts/{account\_id}/k8s/v1/apps/{app\_id}/schedules/{schedule\_id}

Removes the specified Schedule API resource.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
schedule_id	string	path	True	ID of the schedule collection to list

### Response

Status: 204, Indicates if the schedule resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	



### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 following table provides important information about an account setting.

## List all settings

GET /accounts/{account\_id}/core/v1/settings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"

Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	Indicates the sort order of resource when listing a collection.  URL examples: "orderBy=name", "orderBy=name%20desc"  OpenAPI examples: "name desc"
skip	string	query	False	Indicates the number of resources to skip over when listing a collection.  URL examples: "skip=1"  OpenAPI examples: "1"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">setting_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-settings",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

setting\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a name for the setting, in hierarchal dot notation (.).</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.</li> </ul>
currentConfig	type_json	True	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>

Name	Type	Required	Description
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field.</p> <p>The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>
configSchema	type_json_schema	True	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.</p> <p>If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>"valid" - The current configuration matches the desired config.</li> <li>"pending" - The desired configuration is being applied.</li> <li>"error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 127</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a setting

GET /accounts/{account\_id}/core/v1/settings/{setting\_id}

Returns the stored Setting API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • 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: <ul style="list-style-type: none"> <li>• "application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul> This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.

Name	Type	Required	Description
currentConfig	type_json	True	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>

Name	Type	Required	Description
configSchema	type_json_schema	True	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>
state	string	True	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "valid" - The current configuration matches the desired config.</li> <li>• "pending" - The desired configuration is being applied.</li> <li>• "error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-setting",
  "version": "1.0",
  "id": "7d490413-446b-5f86-8818-744e1c10a6c6",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions



## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a setting

PUT /accounts/{account\_id}/core/v1/settings/{setting\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
setting_id	string	path	True	ID of the setting collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-setting"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul> This value is specified by the configmap that is loaded at runtime and cannot be updated by the user.

Name	Type	Required	Description
currentConfig	type_json	False	<p>JSON object containing keys and values that make up the current configuration for this setting.</p> <p>The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p>
desiredConfig	type_json	False	<p>JSON object containing keys and values that make up the requested configuration for this setting.</p> <p>The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.</p>

Name	Type	Required	Description
configSchema	type_json_schema	False	<p>JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory.</p> <p>As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").</p>
state	string	False	<p>JSON string containing a value indicating the operational state of the application.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "valid" - The current configuration matches the desired config.</li> <li>• "pending" - The desired configuration is being applied.</li> <li>• "error" - The desired configuration cannot be applied.</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-setting",
  "version": "1.0",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	



## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

### type\_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

### properties

### type\_json\_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7.

If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

Name	Type	Required	Description
\$schema	string	True	
type	string	True	
properties	<a href="#">properties</a>	True	
additionalProperties	boolean	True	
required	array[string]	True	

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Storage backend

### Storage backend overview

The Storage Backend API provides CRUD (Create-Read-Update-Delete) access to representations of providers of storage services (storage backends) that can be used by managed clusters and applications.

### Create a new storage backend

POST /accounts/{account\_id}/topology/v1/storageBackends

Indicates desired values for the Storage Backend API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

### Request Body

Indicates desired values for the Storage Backend API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>"ontap" - The storage backend represents a NetApp ONTAP system</li> <li>enum: ["ontap"]</li> <li>example: ontap</li> </ul>

Name	Type	Required	Description
backendVersion	string	False	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	False	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-storageBackend",
  "version": "1.2",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendCredentialsName": "st1-45-cred"
}
```

## Response

Status: 201, Returns the newly created storageBackend resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-storageBackend"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 1</li><li>Maximum length: 63</li></ul>

Name	Type	Required	Description
backendType	string	True	<p>JSON string containing a value indicating the type of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>
backendVersion	string	True	<p>JSON string containing a value indicating the version of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
ontap	ontap	False	<p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> <li>• additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.2",
  "id": "ad238443-2bc7-54f5-bd7f-5d1668377cd7",
  "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": {
    "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	False	

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	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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	

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.

Name	Type	Required	Description
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra.  <ul style="list-style-type: none"> <li>• uniqueItems: 1</li> </ul>

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all storage backends

GET /accounts/{account\_id}/topology/v1/storageBackends

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,state</code></li> </ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageBackend_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-storageBackends",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"><li>• uniqueItems: 1</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	



Name	Type	Required	Description
modifiedBy	string	False	

#### storageBackend\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>"ontap" - The storage backend represents a NetApp ONTAP system</li> <li>enum: ["ontap"]</li> <li>example: ontap</li> </ul>

Name	Type	Required	Description
backendVersion	string	True	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters.  <ul style="list-style-type: none"> <li>additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	Client and service-specified metadata associated with the resource. Defined values are:  <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage backend

GET /accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}

Returns the stored Storage Backend API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • 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: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	True	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	True	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>
backendVersion	string	True	JSON string containing a value indicating the version of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
backendCredentialsName	string	True	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>

Name	Type	Required	Description
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedState	string	True	<p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the storage backend.</p> <p>"unknown" for ONTAP.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>

Name	Type	Required	Description
protectionStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
ontap	ontap	False	<p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> <li>• additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.2",
  "id": "ad238443-2bc7-54f5-bd7f-5d1668377cd7",
  "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"
  ],
  "ontap": {
    "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	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"><li>• uniqueItems: 1</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	

Name	Type	Required	Description
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## 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 <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
storageBackend_id	string	path	True	ID of the storageBackend collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Specifying a configuration version results in storage backend type-specific configuration changes being

applied, which can include the initial installation of a storage backend.

- Specifying a configuration version might result in storageClass resources being added, modified, or removed.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageBackend"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
backendName	string	False	JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendType	string	False	JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> <li>• "ontap" - The storage backend represents a NetApp ONTAP system</li> <li>• enum: ["ontap"]</li> <li>• example: ontap</li> </ul>

Name	Type	Required	Description
backendVersion	string	False	<p>JSON string containing a value indicating the version of the storage backend being represented.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
backendCredentialsName	string	False	<p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
configVersion	string	False	<p>JSON string containing a value indicating the active configuration to be used by the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "discovered" - The storage backend has been discovered from a managed cluster</li> <li>• "running" - The storage backend is running normally</li> <li>• "unknown" - The state of the storage backend cannot be determined</li> <li>• "failed" - The storage backend is in an unavailable state</li> </ul>
stateDesired	string	False	<p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> <li>• "running" - The storage backend will be in a normal running state</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The storage backend is scheduled to be discovered or added</li> <li>• "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management</li> <li>• "managed" - The storage backend is in a "running" or "unknown" state and is under management</li> </ul>
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the storage backend.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the storage backend.  "unknown" for ONTAP.  Defined values are:</p> <ul style="list-style-type: none"> <li>• "protected" - The storage backend has a protection policy defined and is in conformance with that policy</li> <li>• "partial" - The storage backend has a protection policy defined but is out of conformance with that policy</li> <li>• "none" - The storage backend is not protected</li> <li>• "unknown" - The storage backend protection policy conformance cannot be determined</li> <li>• enum: ["protected", "partial", "none", "unknown"]</li> <li>• example: protected</li> </ul>
protectionStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance.  Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
ontap	ontap	False	JSON object containing specific information related to ONTAP clusters. <ul style="list-style-type: none"> <li>additionalProperties: false</li> </ul>
metadata	type_astra_metadata_update	False	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-storageBackend",
  "version": "1.2",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

ontap

JSON object containing specific information related to ONTAP clusters.

Name	Type	Required	Description
backendManagementIP	string	False	JSON string containing the IP address used to connect to this ONTAP cluster.
managementIPs	array[string]	False	JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"><li>• uniqueItems: 1</li></ul>

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	



Name	Type	Required	Description
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a storage backend

DELETE /accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}

Removes the specified Storage Backend API resource.

### Side Effects

- All backendConfig resources associated with the storage backend are removed.
- All backendNode resources associated with the storage backend are removed.
- The storage backend might be removed.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
storageBackend_id	string	path	True	ID of the storageBackend collection to list

### Response

Status: 204, Indicates if the storageBackend resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 provides CRUD (Create-Read-Update-Delete) access to storageClass resources in order to describe storage classes known to a given cluster.

## List the storage classes for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	



Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a cloud

GET

/accounts/{account\_id}/topology/v1/clouds/{cloud\_id}/clusters/{cluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 255</li></ul>



Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the storage classes for a cluster

GET /accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>



Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a cluster

GET

/accounts/{account\_id}/topology/v1/clusters/{cluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageClass"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the storage classes for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">storageClass_1.1_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### storageClass\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-storageClass"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
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: <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.
resilience	string	False	JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> <li>"regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>"multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	

Name	Type	Required	Description
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a storage class for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/storageClasses/{storageClass\_id}

Returns the stored Storage Class API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

### Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-storageClass"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "available" - The storage class is available for use</li> <li>• "eligible" - The storage class is eligible to be used by the cluster when it is under management</li> <li>• "ineligible" - The storage class is ineligible to be used by the cluster when it is under management</li> </ul>
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class allows volume expansion</li> <li>• "false" - The storage class does not allow volume expansion</li> <li>• "unavailable" - It is unknown whether the storage class allows volume expansion</li> </ul>
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The storage class contains the default annotation</li> </ul>
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported.</p> <p>This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class.</p> <p>This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>



Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "regional" - The volume will become unavailable if a given region becomes unavailable</li> <li>• "multisite" - The volume will continue to be available if a given region becomes unavailable</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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 CRUD (Create-Read-Update-Delete) access to subscription resources in order to represent active subscriptions.

### Create a new subscription

POST /accounts/{account\_id}/core/v1/subscriptions

Indicates desired values for the Subscription API resource to be created.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

## Request Body

Indicates desired values for the Subscription API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-subscription"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li></ul>
customerProfileID	string	False	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"><li>Minimum length: 0</li><li>Maximum length: 63</li></ul>

Name	Type	Required	Description
paymentFirstName	string	False	<p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentLastName	string	False	<p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentAddress	<a href="#">paymentAddress</a>	False	<p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.</p> <p>If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p>
paymentProfileID	string	False	<p>JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term.</p> <p>Returns an empty string during read operation if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net(<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
marketplace	string	False	<p>JSON string indicating the marketplace for an account where payments will be recorded.</p> <p>Defined values:</p> <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
terms	string	True	<p>JSON string indicating the current tier of the account.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "terms": "trial"
}
```

### Response

Status: 201, Returns the newly created subscription resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-subscription"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	JSON string containing the customer profile ID from <a href="#">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	JSON string containing the payment profile ID from <a href="#">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

Name	Type	Required	Description
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
purchaseOrderNumber	string	False	<p>JSON string containing the purchase order number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	<p>JSON string indicating the marketplace for an account where payments will be recorded.</p> <p>Defined values:</p> <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	<p>JSON string containing the license serial number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription we should start notifying the customer. Value of -1 indicates N/A. Unit: days

Name	Type	Required	Description
onboardStatus	string	True	<p>JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	True	<p>JSON number indicating the cost per app unit. For a trial version, the value would be 0. Unit: US dollars</p>
costPerNamespaceUnit	number	True	<p>JSON number indicating the cost per namespace unit. For a trial version, the value would be 0. Unit: US dollars</p>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "id": "40b4106f-b743-5d83-95c7-d539b2b45f63",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-02-01T00:00:00Z",
  "purchaseOrderNumber": "72384632",
  "marketplace": "netapp",
  "licenseSN": "278343",
  "terms": "trial",
  "status": "active",
  "appLimit": 0,
  "namespaceLimit": 10,
  "subscriptionPeriod": 90,
  "gracePeriod": 7,
  "reminderBeforePeriod": 30,
  "onboardStatus": "in progress",
  "costPerAppUnit": 0,
  "costPerNamespaceUnit": 0.005,
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```



## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.

If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[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 <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples:  "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples:  "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples:  "count=true"</p> <p>OpenAPI examples:  "true"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples:  "orderBy=name",  "orderBy=name%20desc"</p> <p>OpenAPI examples:  "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples:  "skip=1"</p> <p>OpenAPI examples:  "1"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: subscription_1.2_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-subscriptions",
  "version": "1.2",
  "items": [
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "d4c865c9-64a7-4661-ae4a-3307dffcd3da",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-02-01T00:00:00Z",
      "purchaseOrderNumber": "72384632",
      "marketplace": "netapp",
      "licenseSN": "278343",
      "terms": "trial",
      "status": "inactive",
      "appLimit": 0,
      "namespaceLimit": 10,
      "subscriptionPeriod": 90,
      "gracePeriod": 7,
      "reminderBeforePeriod": 30,
      "onboardStatus": "success",
      "costPerAppUnit": 0,
      "costPerNamespaceUnit": 0.005,
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-05-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-05-06T12:24:52.256624Z",
        "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
      }
    },
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "4c43ed8b-078f-4fe3-b8c6-5d515f6382e6",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-05-01T00:00:00Z",
      "purchaseOrderNumber": "92374658",
      "marketplace": "netapp",
      "licenseSN": "374623",
      "terms": "paid",
      "status": "active",
      "appLimit": 0,
    }
  ]
}
```



```

"namespaceLimit": -1,
"subscriptionPeriod": -1,
"gracePeriod": -1,
"reminderBeforePeriod": -1,
"onboardStatus": "success",
"costPerAppUnit": 0,
"costPerNamespaceUnit": 0.005,
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### subscription\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-subscription"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li><li>• "1.2"</li></ul>

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	<p>JSON string containing the customer profile ID from <a href="https://authorize.net">Authorize.net</a>, which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	<p>JSON string containing the payment profile ID from <a href="https://authorize.net">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from <a href="https://authorize.net">authorize.net</a> (<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>

Name	Type	Required	Description
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>

Name	Type	Required	Description
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription we should start notifying the customer. Value of -1 indicates N/A. Unit: days
onboardStatus	string	True	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	True	JSON number indicating the cost per app unit. For a trial version, the value would be 0. Unit: US dollars



Name	Type	Required	Description
costPerNamespaceUnit	number	True	JSON number indicating the cost per namespace unit. For a trial version, the value would be 0. Unit: US dollars
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a subscription

GET /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Returns the stored Subscription API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
subscription_id	string	path	True	ID of the subscription collection to list

### Response

Status: 200, Returns the stored Subscription API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-subscription"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
customerProfileID	string	True	JSON string containing the customer profile ID from <a href="http://authorize.net">Authorize.net</a> , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentProfileID	string	False	JSON string containing the payment profile ID from <a href="http://authorize.net">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentExpiry	string	False	JSON string containing a timestamp indicating when the payment method expires. This is obtained from <a href="http://authorize.net">authorize.net</a> ( <a href="http://authorize.net">http://authorize.net</a> ) and is set by the UI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> This field is not returned for trial terms.

Name	Type	Required	Description
purchaseOrderNumber	string	False	JSON string containing the purchase order number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
terms	string	True	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	True	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>

Name	Type	Required	Description
appLimit	number	True	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	True	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.
subscriptionPeriod	number	True	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	True	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	True	JSON number indicating the number of days before the end of the trial subscription we should start notifying the customer. Value of -1 indicates N/A. Unit: days
onboardStatus	string	True	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	True	JSON number indicating the cost per app unit. For a trial version, the value would be 0. Unit: US dollars

Name	Type	Required	Description
costPerNamespaceUnit	number	True	JSON number indicating the cost per namespace unit. For a trial version, the value would be 0. Unit: US dollars
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a subscription

PUT /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".

- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
subscription_id	string	path	True	ID of the subscription collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".
- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-subscription"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
customerProfileID	string	False	<p>JSON string containing the customer profile ID from <a href="#">Authorize.net</a>, which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentFirstName	string	False	<p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentLastName	string	False	<p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
paymentAddress	<a href="#">paymentAddress</a>	False	<p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.</p> <p>If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p>

Name	Type	Required	Description
paymentProfileID	string	False	<p>JSON string containing the payment profile ID from <a href="https://authorize.net">Authorize.net</a> that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
paymentExpiry	string	False	<p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from <a href="https://authorize.net">authorize.net</a> (<a href="http://authorize.net">http://authorize.net</a>) and is set by the UI.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul> <p>This field is not returned for trial terms.</p>
purchaseOrderNumber	string	False	<p>JSON string containing the purchase order number for the payment method.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
marketplace	string	False	JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> <li>• "netapp"</li> <li>• "azure"</li> <li>• "aws"</li> <li>• "gcp"</li> </ul>
licenseSN	string	False	JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
terms	string	False	JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> <li>• "trial"</li> <li>• "paid"</li> </ul>
status	string	False	JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> <li>• "active"</li> <li>• "inactive"</li> </ul>
appLimit	number	False	JSON number indicating the application limit for this subscription. Value of -1 indicates no limit.
namespaceLimit	number	False	JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit.

Name	Type	Required	Description
subscriptionPeriod	number	False	JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days
gracePeriod	number	False	JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days
reminderBeforePeriod	number	False	JSON number indicating the number of days before the end of the trial subscription we should start notifying the customer. Value of -1 indicates N/A. Unit: days
onboardStatus	string	False	JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> <li>• "not started"</li> <li>• "in progress"</li> <li>• "success"</li> <li>• "failed"</li> </ul>
costPerAppUnit	number	False	JSON number indicating the cost per app unit. For a trial version, the value would be 0. Unit: US dollars
costPerNamespaceUnit	number	False	JSON number indicating the cost per namespace unit. For a trial version, the value would be 0. Unit: US dollars

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-05-01T00:00:00Z"
}
```

### Response

Status: 204, Indicates if the subscription resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	



Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled.

If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a subscription

DELETE /accounts/{account\_id}/core/v1/subscriptions/{subscription\_id}

Removes the specified Subscription API resource.

### Side Effects

- Subscription is deleted along with all the charges associated with it.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
subscription_id	string	path	True	ID of the subscription collection to list

### Response

Status: 204, Indicates if the subscription resource was deleted.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	



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 CRUD (Create-Read-Update-Delete) access to managed task resources in order to represent long-running tasks.

### List all tasks

GET /accounts/{account\_id}/core/v1/tasks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">task_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-tasks",
  "version": "1.0",
  "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",
      "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",
    "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	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateTransitions

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### task\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-task"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code></li> </ul>
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 63</li> </ul>
description	string	True	JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>

Name	Type	Required	Description
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceID	string	True	JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceURI	string	True	JSON string containing the URI associated with the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
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: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the task.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "notStarted" - The task has not started executing.</li><li>• "running" - The task is running.</li><li>• "completed" - The task has completed.</li><li>• "pausing" - The task was requested to pause.</li><li>• "paused" - The task is paused.</li><li>• "cancelling" - The task was requested to cancel.</li><li>• "cancelled" - The task is cancelled.</li><li>• "failed" - The task has failed.</li><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> <p>For example:  "stateTransitions" : [ { "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"] }, ]</p>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
orderHint	number	False	<p>JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100".
startTime	string	False	JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a task

GET /accounts/{account\_id}/core/v1/tasks/{task\_id}

Returns the stored Task API resource in the JSON response body.



## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>
task_id	string	path	True	ID of the task collection to list

## Response

Status: 200, Returns the stored Task API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-task"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 127</li> <li>• Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>"</li> </ul>
summary	string	True	JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 63</li> </ul>
description	string	True	JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 511</li> </ul>
service	string	False	JSON string containing the name of the service that is managing the task. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
parentTaskID	string	False	JSON string containing a globally unique identifier of a parent task of the task. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
resourceID	string	True	<p>JSON string containing a globally unique identifier of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
resourceURI	string	True	<p>JSON string containing the URI associated with the task. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
resourceCollectionURI	array[string]	True	<p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the task.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• "notStarted" - The task has not started executing.</li><li>• "running" - The task is running.</li><li>• "completed" - The task has completed.</li><li>• "pausing" - The task was requested to pause.</li><li>• "paused" - The task is paused.</li><li>• "cancelling" - The task was requested to cancel.</li><li>• "cancelled" - The task is cancelled.</li><li>• "failed" - The task has failed.</li><li>• Minimum length: 1</li><li>• Maximum length: 31</li></ul>

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransitions]	True	<p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state.</p> <p>Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul> <p>For example:</p> <pre>"stateTransitions" : [ {   "from": "running", "to":   ["paused",   "cancelled"] }, { "from":   "paused", "to":   ["running",   "cancelled"] }, ]</pre>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
orderHint	number	False	<p>JSON number representing the order of subtasks.</p> <p>This field can be used by the client to sort subtasks from smallest to largest.</p>

Name	Type	Required	Description
percentDone	number	False	JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100".
startTime	string	False	JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
endTime	string	False	JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
cancelTime	string	False	JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-task",
  "version": "1.0",
  "id": "b1c006b2-2ebf-5dfb-994e-e807c184ac0a",
  "name": "astra.backup.prep",
  "summary": "Backup preparation",
  "description": "Task to prepare for the application backup",
  "service": "nautilus",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

## Response

Status: 400, Bad request



Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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\_stateTransitions

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

### type\_astra\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Token

### Token overview

The Token API provides CRUD (Create-Read-Update-Delete) access to token resources in order to allow users to create and manage API access tokens.

### Create a new token for a user

POST /accounts/{account\_id}/core/v1/users/{user\_id}/tokens

Indicates desired values for the Token API resource to be created.

#### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the containing user resource

#### Request Body

Indicates desired values for the Token API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-token"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
name	string	True	<p>JSON string containing a token name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "Snapshot Script"
}
```

### Response

Status: 201, Returns the newly created token resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
token	string	True	<p>JSON string containing a base64-encoded system-generated API token.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "token": "QSBKV1QgVG9rZW4gd291bGQgZ28gaGVyZS4=",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

### See Definitions

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List the tokens for a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}/tokens

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
user_id	string	path	True	ID of the containing user resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">token_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-tokens",
  "version": "1.0",
  "items": [
    [
      "4e99da96-152e-4aee-9207-4b6d04d2238d",
      "Snapshot Script"
    ],
    [
      "43ab09af-e558-4b1b-a6d5-49df7c39f22c",
      "Snapshot Taker"
    ],
    [
      "cca48856-9e25-4170-b49a-d32265c5e5f1",
      "Volume Checker"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### token\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a token

GET /accounts/{account\_id}/core/v1/users/{user\_id}/tokens/{token\_id}

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Response

Status: 200

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-token"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>
name	string	True	JSON string containing a token name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li><li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li></ul>
userID	string	True	JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels.</p> <p>If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a token

PUT /accounts/{account\_id}/core/v1/users/{user\_id}/tokens/{token\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the containing user resource
token_id	string	path	True	ID of the token collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are:  • "application/astra-token"
version	string	True	Version of the resource. Defined values are:  • "1.0"
id	string	False	Globally unique identifier of the resource. Defined values are:  • Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	False	<p>JSON string containing a token name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>
userID	string	False	<p>JSON string containing the UUID for the user that the token is associated with.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "New Token Name"
}
```

### Response

Status: 204, Indicates if the token resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
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 <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 CRUD (Create-Read-Update-Delete) access to unreadNotification resources in order to provide a view into which notifications have not been read by a given user and to allow them to be marked as read.

## 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

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  notificationID,sequenceCount</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p> <ul style="list-style-type: none"> <li>example: 2</li> </ul>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> <ul style="list-style-type: none"> <li>• example: count%20desc</li> </ul>



Name	Type	In	Required	Description
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>
count	string	query	False	<p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> <li>• example: true</li> </ul>
continue		query	False	<p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;</p> <p>OpenAPI examples: "&lt;continue token="" from="" collection="" metadata=""&gt;"&lt;/continue&gt;&amp;lt;/continue&amp;gt;"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: unreadNotification_1.0_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

### Example response

```
{
  "type": "application/astra-unreadNotifications",
  "version": "1.0",
  "items": [
    [
      "4080cf5f-2261-4130-b8fb-8432e2e553e6",
      48923
    ],
    [
      "1b4e89f1-2e70-4a08-a015-e7064b0fb703",
      47345
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

### unreadNotification\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-unreadNotification"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the UUIDv4 Schema</li></ul>

Name	Type	Required	Description
notificationID	string	True	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>
sequenceCount	number	True	JSON number containing a sequence count associated with the notification specified by the notification ID.

Name	Type	Required	Description
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an unread notification

GET

/accounts/{account\_id}/core/v1/users/{user\_id}/unreadNotifications/{unreadNotification\_id}

Returns the stored Unread Notification API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the containing user resource
unreadNotification_id	string	path	True	ID of the unreadNotification collection to list

## Response

Status: 200, Returns the stored Unread Notification API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-unreadNotification"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
notificationID	string	True	JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
sequenceCount	number	True	JSON number containing a sequence count associated with the notification specified by the notification ID.
severity	string	True	<p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> <li>• "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up</li> <li>• "indeterminate" - Indicates that the severity cannot be determined</li> <li>• "informational" - Indicates a change in state that is both expected and normal (not defined in X.733)</li> <li>• "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt</li> <li>• "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-unreadNotification",
  "version": "1.0",
  "id": "10df997b-629e-50f8-bc5f-a18b9a4ac5f6",
  "notificationID": "4080cf5f-2261-4130-b8fb-8432e2e553e6",
  "sequenceCount": 48923,
  "severity": "warning",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```



## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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 CRUD (Create-Read-Update-Delete) access to software components that are eligible for upgrade, and to initiate upgrades. The availability of upgrades is determined based on packages registered with the Packages API.

## List all upgrades

GET /accounts/{account\_id}/core/v1/upgrades

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example:  id,componentName,upgradeVersion</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: upgrade_1.1_get_response_body, array[]</a> ]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-upgrades",
  "version": "1.1",
  "items": [
    [
      "01982783-b1eb-4dca-a3fe-a385a3186c53",
      "acc",
      "21.07.1"
    ],
    [
      "0a5abab2-39b2-4101-87b9-0d9b8f537ca1",
      "acc",
      "21.07.2"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### upgrade\_1.1\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-upgrade"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
componentName	string	True	JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	True	JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	True	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
upgradeVersion	string	True	<p>JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
currentVersion	string	True	<p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
dependencies	array[string]	True	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "unavailable" - The upgrade is not available at this time</li> <li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li> <li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li> <li>• "running" - The upgrade is in progress</li> <li>• "complete" - The upgrade has completed</li> <li>• "failed" - The upgrade did not complete</li> </ul>

Name	Type	Required	Description
stateDesired	string	True	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve an upgrade

GET /accounts/{account\_id}/core/v1/upgrades/{upgrade\_id}

Returns the stored Upgrade API resource in the JSON response body.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
upgrade_id	string	path	True	ID of the upgrade collection to list

## Response

Status: 200, Returns the stored Upgrade API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-upgrade"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li></ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"><li>Conforms to the UUIDv4 Schema</li></ul>



Name	Type	Required	Description
componentName	string	True	<p>JSON string containing the name of the type of software that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	True	<p>JSON string containing the URI of the component that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	True	<p>JSON string containing a globally unique identifier of the component that can be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
upgradeVersion	string	True	<p>JSON string containing the SemVer of the software image file that can be upgraded to.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
currentVersion	string	True	<p>JSON string containing the current SemVer of the entity to be upgraded.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
dependencies	array[string]	True	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order.</p> <p>Defined values are:</p> <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "unavailable" - The upgrade is not available at this time</li> <li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li> <li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li> <li>• "running" - The upgrade is in progress</li> <li>• "complete" - The upgrade has completed</li> <li>• "failed" - The upgrade did not complete</li> </ul>

Name	Type	Required	Description
stateDesired	string	True	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "id": "aa9a8e88-c012-55b1-b514-7cd94dc79008",
  "componentName": "trident",
  "componentInstance": "https://<dns_name>/accounts/0b311ae7-d89a-4a11-
a52c-1349ca090415/topology/v1/clouds/fdda3ff3-a46a-43a4-902e-
444fde2baeba/storageBackends/72d19c3c-eb43-4bec-b23e-a228c900aded",
  "componentID": "72d19c3c-eb43-4bec-b23e-a228c900aded",
  "upgradeVersion": "21.07.1",
  "currentVersion": "21.04.1",
  "dependencies": [],
  "state": "scheduled",
  "stateDesired": "scheduled",
  "stateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid



## Modify an upgrade

PUT /accounts/{account\_id}/core/v1/upgrades/{upgrade\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Upgrades are scheduled or run based on desired state.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
upgrade_id	string	path	True	ID of the upgrade collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Upgrades are scheduled or run based on desired state.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-upgrade"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>• "1.0"</li><li>• "1.1"</li></ul>

Name	Type	Required	Description
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
componentName	string	False	JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• "acc"</li> <li>• "acs"</li> <li>• "trident"</li> <li>• "kubernetes"</li> </ul>
componentInstance	string	False	JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 3</li> <li>• Maximum length: 4095</li> </ul>
componentID	string	False	JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
upgradeVersion	string	False	JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>

Name	Type	Required	Description
currentVersion	string	False	<p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the SemVer Schema</li> </ul>
dependencies	array[string]	False	<p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the upgrade.</p> <p>If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "unavailable" - The upgrade is not available at this time</li> <li>• "proposed" - The upgrade is proposed but will not automatically run until approved</li> <li>• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources</li> <li>• "running" - The upgrade is in progress</li> <li>• "complete" - The upgrade has completed</li> <li>• "failed" - The upgrade did not complete</li> </ul>

Name	Type	Required	Description
stateDesired	string	False	<p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• "proposed" - The upgrade is not approved and must not be performed</li> <li>• "scheduled" - The upgrade is approved and must be performed in the specified time window</li> <li>• "running" - The upgrade must be performed immediately, regardless of the time window</li> </ul>
stateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "stateDesired": "running"
}
```

### Response

Status: 204, Indicates if the upgrade resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "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	False	
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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	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[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

# User

## User overview

The User API provides CRUD (Create-Read-Update-Delete) access to user resources in order to represent users who are able to interact with the system.

## Create a new user

POST /accounts/{account\_id}/core/v1/users

Indicates desired values for the User API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

### Request Body

Indicates desired values for the User API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-user"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
authID	string	False	JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	<a href="#">postalAddress</a>	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
}
```

### Response

Status: 201, Returns the newly created user resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>



Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	True	JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	True	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "pending",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoo@example.com'>jdoo@example.com</a>",
  "sendWelcomeEmail": "true",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all users

GET /accounts/{account\_id}/core/v1/users

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>

Name	Type	In	Required	Description
include	string	query	False	<p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples:  "include=id",  "include=id,name"</p> <p>OpenAPI examples:  "id"</p> <ul style="list-style-type: none"> <li>example: id,email</li> </ul>
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples:  "limit=2"</p> <p>OpenAPI examples:  "2"</p>

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>
orderBy	string	query	False	<p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p>
skip	string	query	False	<p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p>

Name	Type	In	Required	Description
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object.  URL examples: "count=true"  OpenAPI examples: "true"
continue		query	False	Indicates the token to resume listing from.  URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue>  OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">user_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-users",
  "version": "1.2",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "<a href='mailto:ssmith@example.com'>:ssmith@example.com</a>"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "<a href='mailto:wjohns@example.com'>wjohns@example.com</a>"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

**Definitions**

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### user\_1.2\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent. For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	

Name	Type	Required	Description
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a user

GET /accounts/{account\_id}/core/v1/users/{user\_id}

Returns the stored User API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
user_id	string	path	True	ID of the user collection to list

### Response

Status: 200, Returns the stored User API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>
isEnabled	string	True	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>



Name	Type	Required	Description
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server</li> </ul> <p>In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen.</p> <p>In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</p>

Name	Type	Required	Description
firstName	string	True	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
lastName	string	True	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
email	string	True	JSON strings containing a user-specified email address.
phone	string	False	JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.
postalAddress	<a href="#">postalAddress</a>	False	JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.
sendWelcomeEmail	string	True	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>

Name	Type	Required	Description
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "active",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "NetApp, Inc.",
  "email": "<a href='mailto:jd@exampl.com'>jd@exampl.com</a>",
  "phone": "408-555-2222",
  "postalAddress": {
    "addressCountry": "US",
    "addressLocality": "Sunnyvale",
    "addressRegion": "California",
    "postalCode": "94089",
    "streetAddress1": "495 East Java Drive"
  },
  "sendWelcomeEmail": "true",
  "enableTimestamp": "2020-08-05T14:24:54.128427Z",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions



## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a user

PUT /accounts/{account\_id}/core/v1/users/{user\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the user collection to list

### Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-user"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>

Name	Type	Required	Description
id	string	False	<p>Globally unique identifier of the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
state	string	False	<p>JSON string containing a value indicating the operational state of the user.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value).</li> <li>• This state is not valid for a user with "authProvider" as "local"</li> <li>• "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true").</li> <li>• This is the default value for a user with "authProvider" as "local"</li> <li>• "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting).</li> </ul>

Name	Type	Required	Description
isEnabled	string	False	<p>JSON string indicating if the user is allowed to log in.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The user is allowed to log in; default value on create.</li> <li>• "false" - The user is not allowed to log in.</li> </ul>
authID	string	False	<p>JSON string containing the identifier associated with an external identity provider.</p> <p>The contents of this string depend on the specified authProvider.</p> <p>For a user with "authProvider" as "local", "authID" is set to the value of "email".</p> <p>For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p>

Name	Type	Required	Description
authProvider	string	False	<p>JSON string indicating the context of the idAuth identifier.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "cloud-central" - User authentication comes from the NetApp Cloud Central service</li> <li>• "local" - User authentication comes from the local user/password store</li> <li>• "ldap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central".</li> </ul>
firstName	string	False	<p>JSON string containing a user-specified long form first name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>

Name	Type	Required	Description
lastName	string	False	<p>JSON string containing a user-specified long-form last name.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
companyName	string	False	<p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks</li> </ul>
email	string	False	<p>JSON strings containing a user-specified email address.</p>
phone	string	False	<p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p>

Name	Type	Required	Description
postalAddress	postalAddress	False	<p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p>
sendWelcomeEmail	string	False	<p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - A welcome email will be sent; default value on create</li> <li>• "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false".</li> </ul>
enableTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>



Name	Type	Required	Description
lastActTimestamp	string	False	<p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.)</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul> <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p>

### Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Dale",
  "email": "<a href='mailto:jdale@example.com'>jdale@example.com</a>"
}
```

### Response

Status: 204, Indicates if the user resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

## See Definitions

### postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided.

If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

Name	Type	Required	Description
addressCountry	string	True	JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 2</li><li>• Maximum length: 2</li></ul>
addressLocality	string	True	JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
addressRegion	string	True	JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>
postalCode	string	True	JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 63</li></ul>

Name	Type	Required	Description
streetAddress1	string	True	JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
streetAddress2	string	False	JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource.

Defined values are:

- Conforms to the Astra Metadata Schema  
If not specified on create, a metadata object will be created with no labels.  
If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a user

DELETE /accounts/{account\_id}/core/v1/users/{user\_id}

Removes the specified User API resource.

### Side Effects

- The following resources associated with the user are deleted: notificationMarks, tokens, and all roleBindings referring to the user.
- For a user with "authProvider" as "local", the linked credential with "keyType" as "passwordHash" will also be deleted.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
user_id	string	path	True	ID of the user collection to list

### Response

Status: 204, Indicates if the user resource was deleted.



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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 CRUD (Create-Read-Update-Delete) access to volume resources in order to provide 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 <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### 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: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	<p>JSON string containing the creation token of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for a managed cluster

GET

/accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List the volumes for a storage backend

GET

/accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
storageBackend_id	string	path	True	ID of the containing storageBackend resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### 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: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.



Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[ <a href="#">type_astra_stateDetails</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for a storage backend

GET

/accounts/{account\_id}/topology/v1/storageBackends/{storageBackend\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
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: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>

Name	Type	Required	Description
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>



Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## List all volumes

GET /accounts/{account\_id}/topology/v1/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id"  • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

### Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.



Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### 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: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>



Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume

GET /accounts/{account\_id}/topology/v1/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
volume_id	string	path	True	ID of the volume collection to list

## Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-volume"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> <li>"1.1"</li> <li>"1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>Minimum length: 1</li> <li>Maximum length: 255</li> </ul>

Name	Type	Required	Description
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>

Name	Type	Required	Description
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

### Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 1000000000,
  "usedPercentage": 10,
  "total": 1000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### 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 <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
app_id	string	path	True	ID of the containing app resource
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,name</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">volume_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	

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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

### 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: <ul style="list-style-type: none"><li>• "application/astra-volume"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.

Name	Type	Required	Description
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
snapshotPossible	string	False	JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	JSON string containing the storage class for the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	JSON string containing the PersistentVolumeClaim (PVC) name of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>
exportPolicy	string	False	<p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p>
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a volume for an app

GET /accounts/{account\_id}/k8s/v1/apps/{app\_id}/volumes/{volume\_id}

Returns the stored Volume API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • 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: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
state	string	False	JSON string containing a value indicating the operational state of the volume.
size	string	False	JSON string containing the size of the volume.
used	number	False	JSON number containing the number of bytes of quota used by the provisioned volume.
usedPercentage	number	False	JSON number containing the percentage of volume used.
total	number	False	JSON number containing the total bytes of volumes provisioned.
creationToken	string	False	JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
snapshotPossible	string	False	<p>JSON string indicating whether the driver can perform a snapshot of the volume.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Driver can take a snapshot of the volume</li> <li>• "false" - Driver cannot take a snapshot of the volume</li> </ul>
storageClass	string	False	<p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
pvcName	string	False	<p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
internalName	string	False	<p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> <li>• Defined values are:</li> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>

Name	Type	Required	Description
appsUsing	array[string]	True	<p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
storageBackendID	string	False	<p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
orchestrator	string	False	<p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> <li>• "trident" - Trident has provisioned this volume</li> <li>• "vasa" - NetApp VASA Provider has provisioned this volume</li> <li>• "other" - The volume has been provisioned manually or the orchestrator is not known</li> </ul>
serviceLevel	string	False	<p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p>

Name	Type	Required	Description
exportPolicy	string	False	JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.
nodeId	string	False	<p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
healthState	string	False	<p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity)</li> <li>• "normal" - The resource has no known issues and can provide services in accordance with the interface specification</li> <li>• "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification</li> <li>• "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification</li> </ul>

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about the current health.</p> <p>If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema</li> </ul>

## Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
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	False	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "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	False	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	False	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.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\_stateDetails

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

#### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

Client and service-specified metadata associated with the resource.  
Defined values are:

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# 其他资源

您可以访问其他资源来获取帮助并查找有关 NetApp 云服务和支持以及一般 REST 和云概念的更多信息。

## Astra

- ["Astra控制中心22.11文档"](#)

在客户内部部署的当前版本 Astra Control Center 软件的文档。

- ["Astra Control Service 文档"](#)

公有云中提供的最新版本的 Astra 控制服务软件文档。

- ["Astra Trident 文档"](#)

由 NetApp 维护的开源存储编排程序 Astra Trident 软件最新版本的文档。

- ["Astra 系列文档"](#)

用于访问适用于内部部署和公有云部署的所有 Astra 文档的中央位置。

- ["不和"](#)

为 Astra Control和其他NetApp产品提供社区支持。

## NetApp 云资源

- ["NetApp BlueXP"](#)

NetApp 云解决方案的中央站点。

- ["NetApp Cloud Central 控制台"](#)

可登录的 NetApp Cloud Central 服务控制台。

- ["NetApp 支持"](#)

访问故障排除工具，文档和技术支持帮助。

## REST 和云概念

- 博士 ["Dissertation"](#) 由 Roy Fielding 主讲

本出版物介绍并建立了 REST 应用程序开发模型。

- ["Auth0"](#)

这是 Astra 服务用于 Web 访问的身份验证和授权平台服务。

- "RFC 编辑器"

Web 和 Internet 标准的权威来源，作为一组编号唯一的 RFC 文档进行维护。

# 早期版本的 **Astra Control Automation** 文档

您可以通过以下链接访问先前版本的 Astra Control 的自动化文档。

- ["Astra Control Automation 22.08文档"](#)
- ["Astra Control Automation 22.04文档"](#)
- ["Astra Control Automation 21.12 文档"](#)
- ["Astra Control Automation 21.08 文档"](#)

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