# **■** NetApp

# **Release notes**

**Astra Automation** 

NetApp August 10, 2022

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# Release notes

# About this release

The documentation at this site describes the Astra Control REST API and related automation technologies available with the August 2022 (22.08) release of Astra Control. In particular, this release of the REST API is included with the corresponding 22.08 releases of Astra Control Center and Astra Control Service.

See the following pages and sites for more information about this release as well as previous releases:

- What's new with the Astra Control REST API
- · REST resources and endpoints
- Astra Control Center 22.08 documentation
- Astra Control Service 22.08 documentation
- Earlier versions of Astra Automation documentation

# What's new with the Astra Control REST API

NetApp periodically updates the Astra Control REST API to bring you new features, enhancements, and bug fixes.

# 10 August 2022 (22.08)

This release includes an expansion and update of the REST API as well as enhanced security and administrative features.

#### New and enhanced Astra resources

Three new resources types have been added: **Certificate**, **Group**, and **AppMirror**. In addition, the versions of several existing resources have been updated.

#### LDAP authentication

You can optionally configure Astra Control Center to integrate with an LDAP server to authenticate selected Astra users. See LDAP configuration for more information.

#### **Enhanced execution hook**

Support for execution hooks was added with the Astra Control 21.12 release. In addition to the existing presnapshot and post-snapshot execution hooks, you can now configure the following types of execution hooks with the 22.08 release:

- Pre-backup
- Post-backup
- · Post-restore

Astra Control now also allows same script to be used for multiple execution hooks.

#### Application replication using SnapMirror

You can now replicate data and application changes among clusters using NetApp SnapMirror technology. This enhancement can be used to improve your business continuity and recovery capabilities.

#### Related information

· Astra Control Center: What's new

· Astra Control Service: What's new

## 26 April 2022 (22.04)

This release includes an expansion and update of the REST API as well as enhanced security and administrative features.

#### New and enhanced Astra resources

Two new resources types have been added: **Package** and **Upgrade**. In addition, the versions of several existing resources have been upgraded.

#### **Enhanced RBAC with namespace granularity**

When binding a role to an associated user, you can limit the namespaces the user has access to. See the **Role Binding API** reference and RBAC security for more information.

#### **Bucket removal**

You can remove a bucket when it is no longer needed or is not functioning properly.

#### **Support for Cloud Volumes ONTAP**

Cloud Volumes ONTAP is now supported as a storage backend.

#### Additional product enhancements

There are several additional enhancements to the two Astra Control product implementations, including:

- · Generic ingress for Astra Control Center
- · Private cluster in AKS
- Support for Kubernetes 1.22
- Support for VMware Tanzu portfolio

See the **What's new** page at the Astra Control Center and Astra Control Service documentation sites.

#### **Related information**

· Astra Control Center: What's new

Astra Control Service: What's new

## 14 December 2021 (21.12)

This release includes an expansion of the REST API along with a change to the documentation structure to better support the evolution of Astra Control through the future release updates.

#### Separate Astra Automation documentation for each release of Astra Control

Every release of Astra Control includes a distinct REST API that has been enhanced and tailored to the features of the specific release. The documentation for each release of the Astra Control REST API is now available at its own dedicated web site along with the associated GitHub content repository. The main doc site Astra Control Automation always contains the documentation for the most current release. See Earlier versions of Astra Control Automation documentation for information about prior releases.

#### **Expansion of the REST resource types**

The number of REST resource types has continued to expand with an emphasis on execution hooks and storage backends. The new resources include: account, execution hook, hook source, execution hook override, cluster node, managed storage backend, namespace, storage device, and storage node. See Resources for more information.

#### **NetApp Astra Control Python SDK**

NetApp Astra Control Python SDK is an open source package that makes it easier to develop automation code for your Astra Control environment. At the core is the Astra SDK which includes a set of classes to abstract the complexity of the REST API calls. There is also a toolkit script to execute specific administrative tasks by wrapping and abstracting the Python classes. See NetApp Astra Control Python SDK for more information.

### 5 August 2021 (21.08)

This release includes the introduction of a new Astra deployment model and a major expansion of the REST API.

#### **Astra Control Center deployment model**

In addition to the existing Astra Control Service offering provided as a public cloud service, this release also includes the Astra Control Center on-premises deployment model. You can install Astra Control Center at your site to manage your local Kubernetes environment. The two Astra Control deployment models share the same REST API, with minor differences noted as needed in the documentation.

#### **Expansion of the REST resource types**

The number of resources accessible through the Astra Control REST API has greatly expanded, with many of the new resources providing a foundation for the on-premises Astra Control Center offering. The new resources include: ASUP, entitlement, feature, license, setting, subscription, bucket, cloud, cluster, managed cluster, storage backend, and storage class. See Resources for more information.

#### Additional endpoints supporting an Astra deployment

In addition to the expanded REST resources, there are several other new API endpoints available to support an Astra Control deployment.

#### OpenAPI support

The OpenAPI endpoints provide access to the current OpenAPI JSON document and other related resources.

#### **OpenMetrics support**

The OpenMetrics endpoints provide access to account metrics through the OpenMetrics resource.

## 15 April 2021 (21.04)

This release includes the following new features and enhancements.

#### Introduction of the REST API

The Astra Control REST API is available for use with the Astra Control Service offering. It has been created based on REST technologies and current best practices. The API provides a foundation for the automation of your Astra deployments and includes the following features and benefits.

#### Resources

There are fourteen REST resource types available.

#### API token access

Access to the REST API is provided through an API access token which you can generate at the Astra web user interface. The API token provides secure access to the API.

#### Support for collections

There is a rich set of query parameters which can be used to access the resources collections. Some of the supported operations include filtering, sorting, and pagination.

# Known issues

You should review all the known issues for the current release related to the Astra Control REST API. The known issues identify problems that might prevent you from using the product successfully.



There are no new known issues with the 22.08 release of the Astra Control REST API. The issues described below were discovered in previous releases and are still applicable with the current release.

# Not all storage devices in a backend storage node are discovered

When issuing a REST API call to retrieve the storage devices defined in a storage node, only the Astra Data Store devices are discovered. Not all the devices are returned.

# Astra Data Store storage backend in Unknown state

The Astra Data Store storage backend is in the Unknown state after issuing an API call to retrieve the storage backend. In this condition, the storage backend is actually still available and can be communicated with. However, a component within the storage backend is likely in an unhealthy state and needs to be returned to a healthy state for the storage backend to show as Available.

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