Resources and endpoints

Astra Automation

David Peterson
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Resources and endpoints

You can use the resources provided through REST API to automate an Astra deployment. Each resource is access through one or more endpoints. This section provides an introduction to the REST resources which you can use as part of planning an automation deployment.

The format of the path and full URL used to access the Astra resources is based on several values. See URL format for more information. Also see API reference for details about using the Astra resources and endpoints.

Astra REST resources and endpoints

The primary resource endpoints provided in the Astra REST API are organized in three categories. Each resource can be accessed with the full set of CRUD operations (create, read, update, delete) except where noted.

Core resources

The core resource endpoints provide the foundational services needed to establish and maintain the Astra runtime environment.

ASUP

The ASUP resources represent the AutoSupport bundles forwarded to NetApp support.

Credential

The credential resources contain security related information which can be used with Astra users, clusters, buckets, and storage backends.

Entitlement

The entitlement resources represent the features and capacities available for an account based on the active licenses and subscriptions.

Event

The event resources represent all the events occurring in the system, including the subset classified as notifications.

Feature

The feature resources represent selected Astra features that you can query to determine if they are enabled or disabled in the system. Access is limited to read-only.

License

The license resources represent the licenses available for an Astra account.

Notification

The notification resources represent Astra events that have a notification destination. Access is provided on a per-user basis.

Role Binding

The role binding resources represent the relationships between specific pairs of users and accounts. In addition to the linkage between the two, a set of permissions is specified for each through a specific role.

Setting

The setting resources represent a collection of key-value pairs which describe a feature for a specific Astra account.

Subscription

The subscription resources represent the active subscriptions for an Astra account.

Token

The token resources represent the tokens available to programmatically access the Astra REST API.

Unread notification

The unread notification resources represent notifications assigned to a specific user but not yet read.

User

The user resources represent Astra users able to access the system based on their defined role.

Managed application resources

The managed application resource endpoints provide access to the managed Kubernetes applications.

Application asset

The application asset resources represent internal collections of state information needed to manage the Astra applications.

Application backup

The application backup resources represent backups of the managed applications.

Application snapshot

The application snapshot resources represent snapshots of the managed applications.

Managed application

The managed app resources represent Kubernetes applications that are managed by Astra.

Schedule

The schedule resources represent data protection operations that are scheduled for the managed applications as part of a data protection policy.

Topology resources

The topology resource endpoints provide access to the unmanaged applications and storage resources.

App

The app resources represent all of the Kubernetes applications, including those unmanaged by Astra.

Bucket

The bucket resources represent the S3 cloud buckets used to store backups of the applications managed by Astra.

Cloud

The cloud resources represent clouds that Astra clients can connect to in order to manage clusters and applications.

Cluster

The cluster resources represent the Kubernetes clusters not managed by Kubernetes.

Managed cluster

The managed cluster resources represent the Kubernetes clusters currently managed by Kubernetes.

Storage backend

The storage backend resources represent providers of storage services that can be used by the Astra managed clusters and applications.

Storage class

The storage class resources represent different classes or types of storage discovered and available to a specific managed cluster.

Volume

The volume resources represent the Kubernetes storage volumes associated with the managed applications.

Additional resources and endpoints

There are several additional resources and endpoints that you can use to support an Astra deployment.

These resources and endpoints are not currently included with the Astra API reference documentation.

OpenAPI

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

OpenMetrics

The OpenMetrics endpoints provide access to the account metrics through the OpenMetrics resource. Support is available with the Astra Control Center deployment model.