



# **Additional usage considerations**

## **Astra Automation**

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# Additional usage considerations

## RBAC security

The Astra REST API supports role-based access control (RBAC) to grant and restrict access to the system functions.

### Astra roles

Every Astra user is assigned to a single role which determines the actions that can be performed. The roles are arranged in a hierarchy as described in the table below.

Role	Description
Owner	Has all the permissions of the Admin role and can also delete Astra accounts.
Admin	Has all the permissions of the Member role and can also invite users to join an account.
Member	Can fully manage the Astra application and compute resources.
Viewer	Restricted to only viewing resources.

### Enhanced RBAC with namespace granularity



This feature was introduced with the 22.04 release of the Astra REST API.

When a role binding is established for a specific user, a constraint can be applied to limit the namespaces the user has access to. There are several ways this constraint can be defined as described in the table below. See the parameter `roleConstraints` in the Role Binding API for more information.

Namespaces	Description
All	The user can access all the namespaces through the wildcard parameter <code>"**"</code> . This is the default value to maintain backwards compatibility.
None	The constraint list is specified although it is empty. This indicates the user cannot access any namespace.
Namespace list	The UUID of a namespace is included which restricts the user to the single namespace. A comma separated list can also be used to allow access to multiple namespaces.
Label	A label is specified and access is allowed to all the matching namespaces.

## Work with collections

The Astra Control REST API provides several different ways to access resource collections through the defined query parameters.

### Selecting values

You can specify which key-value pairs should be returned for each resource instance using the `include` parameter. All of the instances are returned in the response body.

## Filtering

Collection resource filtering allows an API user to specify conditions which determine if a resource is returned in the response body. The `filter` parameter is used to indicate the filtering condition.

## Sorting

Collection resource sorting allows an API user to specify the order in which resources are returned in the response body. The `orderBy` parameter is used to indicate the filtering condition.

## Pagination

You can enforce pagination by restricting the number of resource instances returned on a request using the `limit` parameter.

## Count

If you include the Boolean parameter `count` set to `true`, the number of resources in the returned array for a given response is provided in the metadata section.

# Diagnostics and support

There are several support features available with the Astra Control REST API that can be used for diagnostics and debugging.

## API resources

There are several Astra features exposed through API resources that provide diagnostic information and support.

Type	Description
Event	System activities that are recorded as part of Astra processing.
Notification	A subset of the Events that are considered important enough to be presented to the user.
Unread notification	The notifications that have yet to be read or retrieved by the user.

# Revoke an API token

You can revoke an API token at the Astra web interface when it is no longer needed.

## Before you begin

You need an Astra account. You should also identify the tokens you want to revoke.

## About this task

After a token is revoked, it is immediately and permanently unusable.

## Steps

1. Sign in to Astra using your account credentials.

Access the following site for Astra Control Service: <https://astra.netapp.io>

2. Click the figure icon at the top right of the page and select **API access**.

3. Select the token or tokens you want to revoke.
4. Under the **Actions** drop-down box, click **Revoke tokens**.

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