



## **Release notes**

### **Astra Control Center**

NetApp  
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# Release notes

We're pleased to announce the 22.04.0 release of Astra Control Center.

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- [Known issues](#)
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## What's new in this release of Astra Control Center

We're pleased to announce the latest 22.04.0 release of Astra Control Center.

### 26 April 2022 (22.04.0)

#### New features and support

- [Namespace role-based access control \(RBAC\)](#)
- [Support for Cloud Volumes ONTAP \(CVO\)](#)
- [Generic ingress enablement for Astra Control Center](#)
- [Bucket removal from Astra Control](#)
- [Support for VMware Tanzu Portfolio](#)

#### Known issues and limitations

- [Known issues for this release](#)
- [Known issues with Astra Data Store preview and this Astra Control Center release](#)
- [Known limitations for this release](#)

### 14 December 2021 (21.12)

#### New features and support

- [Application restore](#)
- [Execution hooks](#)
- [Support for applications deployed with namespace-scoped operators](#)
- [Additional support for upstream Kubernetes and Rancher](#)
- [Astra Data Store preview backend management and monitoring](#)
- [Astra Control Center upgrades](#)
- [Red Hat OperatorHub option for installation](#)

#### Resolved issues

- [Resolved issues for this release](#)

#### Known issues and limitations

- [Known issues for this release](#)
- [Known issues with Astra Data Store preview and this Astra Control Center release](#)
- [Known limitations for this release](#)

## 5 August 2021 (21.08)

Initial release of Astra Control Center.

- [What it is](#)
- [Understand architecture and components](#)
- [What it takes to get started](#)
- [Install and setup](#)
- [Manage and protect apps](#)
- [Manage buckets and storage backends](#)
- [Manage accounts](#)
- [Automate with API](#)

## Find more information

- [Known issues for this release](#)
- [Known limitations for this release](#)
- [Astra Data Store documentation](#)
- [Earlier versions of Astra Control Center documentation](#)

## Known issues

Known issues identify problems that might prevent you from using this release of the product successfully.

The following known issues affect the current release:

### Apps

- [Restore of an app results in PV size larger than original PV](#)
- [App clones fail using a specific version of PostgreSQL](#)
- [App clones fail when using Service Account level OCP Security Context Constraints \(SCC\)](#)
- [App clones fail after an application is deployed with a set storage class](#)

### Clusters

- [Managing a cluster with Astra Control Center fails when default kubeconfig file contains more than one context](#)

### Other issues

- [App data management operations fail with Internal Service Error \(500\) when Astra Trident is offline](#)
- [Snapshots might fail with snapshot controller version 4.2.0](#)

## Restore of an app results in PV size larger than original PV

If you resize a persistent volume after creating a backup and then restore from that backup, the persistent volume size will match the new size of the PV instead of using the size of the backup.

## App clones fail using a specific version of PostgreSQL

App clones within the same cluster consistently fail with the Bitnami PostgreSQL 11.5.0 chart. To clone successfully, use an earlier or later version of the chart.

## App clones fail when using Service Account level OCP Security Context Constraints (SCC)

An application clone might fail if the original security context constraints are configured at the service account level within the namespace on the OpenShift Container Platform cluster. When the application clone fails, it appears in the Managed Applications area in Astra Control Center with status `Removed`. See the [knowledgebase article](#) for more information.

## App clones fail after an application is deployed with a set storage class

After an application is deployed with a storage class explicitly set (for example, `helm install ...-set global.storageClass=netapp-cvs-perf-extreme`), subsequent attempts to clone the application require that the target cluster have the originally specified storage class.

Cloning an application with an explicitly set storage class to a cluster that does not have the same storage class will fail. There are no recovery steps in this scenario.

## Managing a cluster with Astra Control Center fails when default kubeconfig file contains more than one context

You cannot use a kubeconfig with more than one cluster and context in it. See the [knowledgebase article](#) for more information.

## App data management operations fail with Internal Service Error (500) when Astra Trident is offline

If Astra Trident on an app cluster goes offline (and is brought back online) and 500 internal service errors are encountered when attempting app data management, restart all of the Kubernetes nodes in the app cluster to restore functionality.

## Snapshots might fail with snapshot controller version 4.2.0

When you use Kubernetes snapshot-controller (also known as external-snapshotter) version 4.2.0 with Kubernetes 1.20 or 1.21, snapshots can eventually begin to fail. To prevent this, use a different [supported version](#) of external-snapshotter, such as version 4.2.1, with Kubernetes versions 1.20 or 1.21.

1. Run a POST call to add an updated kubeconfig file to the `/credentials` endpoint and retrieve the assigned `id` from the response body.
2. Run a PUT call from the `/clusters` endpoint using the appropriate cluster ID and set the `credentialID` to the `id` value from the previous step.

After you complete these steps, the credential associated with the cluster is updated and the cluster should reconnect and update its state to `available`.

## Find more information

- [Known issues with Astra Data Store preview and this Astra Control Center release](#)
- [Known limitations](#)

## Known issues with Astra Data Store preview and this Astra Control Center release

Known issues identify problems that might prevent you from using this release of the product successfully.

The following known issues affect the management of Astra Data Store with this current release of the Astra Control Center:

### **Astra Data Store preview cannot be used as a storage class for Astra Control Center due to MongoDB pod liveness probe failure**

When you attempt to use Astra Data Store preview as the storage class provisioner during an Astra Control Center deployment, the MongoDB pod liveness probe fails, resulting in a deployment that will not complete.

To correct this issue, make the following changes in addition to the standard YAML changes when completing the [Astra Control Center installation process](#):

1. Edit the [Astra Control Center operator deployment YAML](#) (`astra_control_center_operator_deploy.yaml`) to change the Helm install timeout:

```
- name: ACCOP_HELM_INSTALLTIMEOUT
  value: 20m
```

2. Edit the [Astra Control Center custom resource \(CR\) file](#) (`astra_control_center_min.yaml`) and include the highlighted additional values under `spec`:

```

apiVersion: astra.netapp.io/v1
kind: AstraControlCenter
metadata:
  name: astra
spec:
  accountName: "Example"
  astraVersion: "ASTRA_VERSION"
  astraAddress: "astra.example.com"
  autoSupport:
    enrolled: true
  email: "[admin@example.com]"
  firstName: "SRE"
  lastName: "Admin"
  imageRegistry:
    name: "[your_registry_path]"
    secret: "astra-registry-cred"
  storageClass: "ontap-gold"
  additionalValues:
    polaris-mongodb:
      mongodb:
        livenessProbe:
          initialDelaySeconds: 400
    metrics:
      livenessProbe:
        initialDelaySeconds: 400

```

## Find more information

- [Known issues](#)
- [Known limitations](#)
- [Astra Data Store documentation](#)

## Known limitations

Known limitations identify platforms, devices, or functions that are not supported by this release of the product, or that do not interoperate correctly with it. Review these limitations carefully.

### Cluster management limitations

- [The same cluster cannot be managed by two Astra Control Center instances](#)
- [Astra Control Center cannot manage two identically named clusters](#)

### Role-based Access Control (RBAC) limitations

- [A user with namespace RBAC constraints can add and unmanage a cluster](#)
- [A member with namespace constraints cannot access the cloned or restored apps until admin adds the namespace to the constraint](#)

## App management limitations

- App backups that are in progress cannot be stopped
- Clones of apps installed using pass-by-reference operators can fail
- In-place restore operations of apps that use a certificate manager are not supported
- OLM-enabled and cluster-scoped operator deployed apps not supported
- Apps deployed with Helm 2 are not supported

## General limitations

- S3 buckets in Astra Control Center do not report available capacity
- Astra Control Center does not validate the details you enter for your proxy server
- Existing connections to a Postgres pod causes failures
- Backups and snapshots might not be retained during removal of an Astra Control Center instance

## The same cluster cannot be managed by two Astra Control Center instances

If you want to manage a cluster on another Astra Control Center instance, you should first [unmanage the cluster](#) from the instance on which it is managed before you manage it on another instance. After you remove the cluster from management, verify that the cluster is unmanaged by executing this command:

```
oc get pods n -netapp-monitoring
```

There should be no pods running in that namespace or the namespace should not exist. If either of those are true, the cluster is unmanaged.

## Astra Control Center cannot manage two identically named clusters

If you try to add a cluster with the same name of a cluster that already exists, the operation will fail. This issue most often occurs in a standard Kubernetes environment if you have not changed the cluster name default in Kubernetes configuration files.

As a workaround, do the following:

1. Edit your kubeadm-config ConfigMap:

```
kubectrl edit configmaps -n kube-system kubeadm-config
```

2. Change the `clusterName` field value from `kubernetes` (the Kubernetes default name) to a unique custom name.
3. Edit `kubeconfig` (`.kube/config`).
4. Update cluster name from `kubernetes` to a unique custom name (`xyz-cluster` is used in the examples below). Make the update in both `clusters` and `contexts` sections as shown in this example:



```

apiVersion: v1
clusters:
- cluster:
    certificate-authority-data:
    ExAmPLERb2tCcJZ5K3E2Njk4eQotLExAMpLEORCBDRVJUSUZJQ0FURS0txxxxXX==
    server: https://x.x.x.x:6443
    name: xyz-cluster
contexts:
- context:
    cluster: xyz-cluster
    namespace: default
    user: kubernetes-admin
    name: kubernetes-admin@kubernetes
current-context: kubernetes-admin@kubernetes

```

## A user with namespace RBAC constraints can add and unmanage a cluster

A user with namespace RBAC constraints should not be allowed to add or unmanage clusters. Due to a current limitation, Astra does not prevent such users from unmanaging clusters.

## A member with namespace constraints cannot access the cloned or restored apps until admin adds the namespace to the constraint

Any `member` user with RBAC constraints by namespace name/ID or by namespace labels can clone or restore an app to a new namespace on the same cluster or to any other cluster in their organization's account. However, the same user cannot access the cloned or restored app in the new namespace. After a new namespace is created by a clone or restore operation, the account admin/owner can edit the `member` user account and update role constraints for the affected user to grant access to the new namespace.

## App backups that are in progress cannot be stopped

There is no way to stop a running backup. If you need to delete the backup, wait until it has completed and then use the instructions in [Delete backups](#). To delete a failed backup, use the [Astra Control API](#).

## Clones of apps installed using pass-by-reference operators can fail

Astra Control supports apps installed with namespace-scoped operators. These operators are generally designed with a "pass-by-value" rather than "pass-by-reference" architecture. The following are some operator apps that follow these patterns:

- [Apache K8ssandra](#)



For K8ssandra, in-place restore operations are supported. A restore operation to a new namespace or cluster requires that the original instance of the application be taken down. This is to ensure that the peer group information carried over does not lead to cross-instance communication. Cloning of the app is not supported.

- [Jenkins CI](#)

- [Percona XtraDB Cluster](#)

Note that Astra Control might not be able to clone an operator that is designed with a “pass-by-reference” architecture (for example, the CockroachDB operator). During these types of cloning operations, the cloned operator attempts to reference Kubernetes secrets from the source operator despite having its own new secret as part of the cloning process. The clone operation might fail because Astra Control is unaware of the Kubernetes secrets in the source operator.

## **In-place restore operations of apps that use a certificate manager are not supported**

This release of Astra Control Center does not support in-place restore of apps with certificate managers. Restore operations to a different namespace and clone operations are supported.

## **OLM-enabled and cluster-scoped operator deployed apps not supported**

Astra Control Center does not support application management activities with cluster-scoped operators.

## **Apps deployed with Helm 2 are not supported**

If you use Helm to deploy apps, Astra Control Center requires Helm version 3. Managing and cloning apps deployed with Helm 3 (or upgraded from Helm 2 to Helm 3) is fully supported. For more information, see [Astra Control Center requirements](#).

## **S3 buckets in Astra Control Center do not report available capacity**

Before backing up or cloning apps managed by Astra Control Center, check bucket information in the ONTAP or StorageGRID management system.

## **Astra Control Center does not validate the details you enter for your proxy server**

Ensure that you [enter the correct values](#) when establishing a connection.

## **Existing connections to a Postgres pod causes failures**

When you perform operations on Postgres pods, you shouldn't connect directly within the pod to use the `psql` command. Astra Control requires `psql` access to freeze and thaw the databases. If there is a pre-existing connection, the snapshot, backup, or clone will fail.

## **Backups and snapshots might not be retained during removal of an Astra Control Center instance**

If you have an evaluation license, be sure you store your account ID to avoid data loss in the event of Astra Control Center failure if you are not sending ASUPs.

## **Find more information**

- [Known issues](#)
- [Known issues with Astra Data Store preview and this Astra Control Center release](#)

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