



Register your Red Hat OpenShift Clusters with the Astra Control Center

NetApp Solutions

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Table of Contents


Register your Red Hat OpenShift Clusters with the Astra Control Center	1
Register Red Hat OpenShift clusters	1

Register your Red Hat OpenShift Clusters with the Astra Control Center


To enable the Astra Control Center to manage your workloads, you must first register your Red Hat OpenShift cluster.

Register Red Hat OpenShift clusters

1. The first step is to add the OpenShift clusters to the Astra Control Center and manage them. Go to Clusters and click Add a Cluster, upload the kubeconfig file for the OpenShift cluster, and click Select Storage.

 **Add cluster**

STEP 1/3: CREDENTIALS





CREDENTIALS

Provide Astra Control access to your Kubernetes and OpenShift clusters by entering a kubeconfig credential.

Follow [instructions](#) on how to create a dedicated admin-role kubeconfig.

[Upload file](#) [Paste from clipboard](#)

Kubeconfig YAML file
ocp-vmw kubeconfig.txt

Credential name
ocp-vmw

ADDING A CLUSTER

Adding a cluster is needed for Astra Control to discover your Kubernetes applications.

Select a cloud provider and input credentials to get started.

Read more in [Clusters](#).

Cancel

Configure storage →



The kubeconfig file can be generated to authenticate with a username and password or a token. Tokens expire after a limited amount of time and might leave the registered cluster unreachable. NetApp recommends using a kubeconfig file with a username and password to register your OpenShift clusters to Astra Control Center.

2. Astra Control Center detects the eligible storage classes. Now select the way that storageclass provisions volumes using Trident backed by an SVM on NetApp ONTAP and click Review. In the next pane, verify the details and click Add Cluster.

Add cluster

STEP 2/3: STORAGE

×

STORAGE

Existing storage classes are discovered and verified as eligible for use with Astra Control. You can use your existing default, or choose to set a new default at this time.

Applications with persistent volumes on eligible storage classes are validated for use with Astra Control.

Set default	Storage class	Storage provisioner	Reclaim policy	Binding mode	Eligible
<input checked="" type="radio"/>	ocp-trident Default	csi.trident.netapp.io	Delete	Immediate	
<input type="radio"/>	ocp-trident-iscsi	csi.trident.netapp.io	Delete	Immediate	
<input type="radio"/>	project-1-sc	csi.trident.netapp.io	Delete	Immediate	
<input type="radio"/>	thin	kubernetes.io/vsphere-volume	Delete	Immediate	

← Select credentials

Review →

- Register both OpenShift clusters as described in step 1. When added, the clusters move to the Discovering status while Astra Control Center inspects them and installs the necessary agents. Cluster status changes to Running after they are successfully registered.

admin

10

Dashboard

MANAGE YOUR APPS

Apps

Clusters

MANAGE YOUR STORAGE

Backends

Buckets

MANAGE YOUR ACCOUNT

Account

Activity

Support

Clusters

Actions + Add

Search

1-2 of 2 entries

	Name ↓	Ready	Type	Version	Actions
<input type="checkbox"/>	ocp-vmw		Red Hat OpenShift	v1.20.0+df9c838	Running
<input type="checkbox"/>	ocp-vmware2		Red Hat OpenShift	v1.20.0+c8905da	Running

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All Red Hat OpenShift clusters to be managed by Astra Control Center should have access to the image registry that was used for its installation as the agents installed on the managed clusters pull the images from that registry.

- Import ONTAP clusters as storage resources to be managed as backends by Astra Control Center. When OpenShift clusters are added to Astra and a storageclass is configured, it automatically discovers and inspects the ONTAP cluster backing the storageclass but does not import it into the Astra Control Center to be managed.



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- Manage ONTAP storage backend**

STEP 1/2: CREDENTIALS

CREDENTIALS

Enter cluster administrator credentials for the ONTAP storage backend you want to manage.

Cluster management IP address
172.21.224.201

User name
admin

Password
●●●●●●●●

 **MANAGE STORAGE
BACKEND**

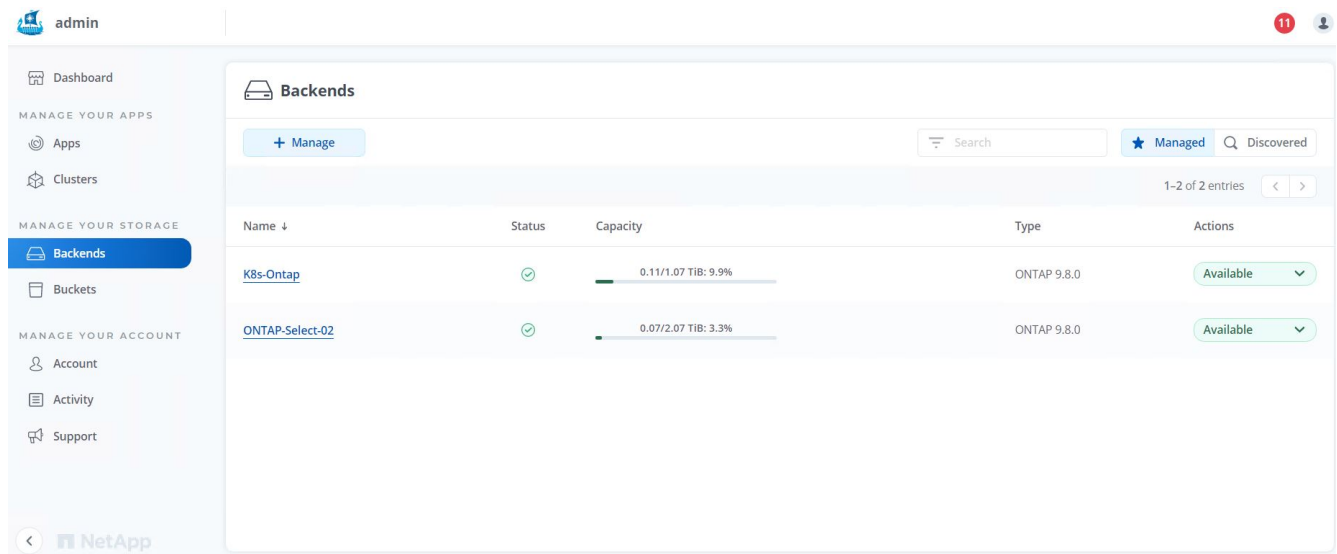
Storage backends provide storage to your Kubernetes applications.

Managing storage clusters in Astra Control as a storage backend will allow you to get linkages between PVs and the storage backend. You will also see capacity and health details of the storage backend, including performance metrics if Astra Control is connected to Cloud Insights.

Read more in [Storage backend](#) .

- Cancel

Review information →



7. For backup and restore across OpenShift clusters using Astra Control Center, you must provision an object storage bucket that supports the S3 protocol. Currently supported options are ONTAP S3, StorageGRID, and AWS S3. For the purpose of this installation, we are going to configure an AWS S3 bucket. Go to Buckets, click Add bucket, and select Generic S3. Enter the details about the S3 bucket and credentials to access it, click the checkbox "Make this bucket the default bucket for the cloud," and then click Add.

Add bucket

X

STORAGE BUCKET

Enter the access details of your existing object store bucket to allow Astra Control to store your application backups.

Type

Generic S3

Existing bucket name

ocp-vmware2-astra-cc

Description (optional)

S3 server name or IP address

s3.us-east-1.amazonaws.com

✓

Make this bucket the default bucket for this cloud

?

SELECT CREDENTIALS

Astra Control requires S3 access credentials with the roles necessary to facilitate Kubernetes application data management.

Add

Use existing

Access ID

AMW\$TCFKDSU6HWSZXABD

Credential name

AWS-S3

Secret key

🔑

Cancel

Add ✓

ADDING STORAGE BUCKETS

Astra Control stores backups in your existing object store buckets. The first bucket added for a selected cloud will be designated as the default bucket for backup and clone operations.

Read more in [storage buckets](#).

Next: Choose the Applications To Protect.

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