



Clusters

Astra Automation

NetApp
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Clusters

List the clusters

You can list the available clusters in a specific cloud.

1. Select the cloud

Perform the workflow [List the clouds](#) and select the cloud containing the clusters.

2. List the clusters

Perform the following REST API call to list the clusters in a specific cloud.

HTTP method	Path
GET	/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters

Curl example: Return all data for all clusters

```
curl --location -i --request GET  
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/clouds/<CLOUD_ID>/clusters' --header 'Accept: */*' --header 'Authorization: Bearer  
<API TOKEN>'
```

JSON output example

```
"clusterVersion": "1.23",
"clusterVersionString": "v1.23.12+6b34f32",
"namespaces": [
    "default",
    "kube-node-lease",
    "kube-public",
    "kube-system",
    "metallb-system",
    "mysql",
    "mysql-clone1",
    "mysql-clone2",
    "mysql-clone3",
    "mysql-clone4",
    "netapp-acc-operator",
    "netapp-monitoring",
    "openshift",
    "openshift-apiserver",
    "openshift-apiserver-operator",
    "openshift-authentication",
    "openshift-authentication-operator",
    "openshift-cloud-controller-manager",
    "openshift-cloud-controller-manager-operator",
    "openshift-cloud-credential-operator",
    "openshift-cloud-network-config-controller",
    "openshift-cluster-csi-drivers",
    "openshift-cluster-machine approver",
    "openshift-cluster-node-tuning-operator",
    "openshift-cluster-samples-operator",
    "openshift-cluster-storage-operator",
    "openshift-cluster-version",
    "openshift-config",
    "openshift-config-managed",
    "openshift-config-operator",
    "openshift-console",
    "openshift-console-operator",
    "openshift-console-user-settings",
    "openshift-controller-manager",
    "openshift-controller-manager-operator",
    "openshift-dns",
    "openshift-dns-operator",
    "openshift-etcd",
    "openshift-etcd-operator",
    "openshift-host-network",
    "openshift-image-registry",
    "openshift-infra",
    "openshift-ingress",
```

```

        "openshift-ingress-canary",
        "openshift-ingress-operator",
        "openshift-insights",
        "openshift-kni-infra",
        "openshift-kube-apiserver",
        "openshift-kube-apiserver-operator",
        "openshift-kube-controller-manager",
        "openshift-kube-controller-manager-operator",
        "openshift-kube-scheduler",
        "openshift-kube-scheduler-operator",
        "openshift-kube-storage-version-migrator",
        "openshift-kube-storage-version-migrator-operator",
        "openshift-machine-api",
        "openshift-machine-config-operator",
        "openshift-marketplace",
        "openshift-monitoring",
        "openshift-multus",
        "openshift-network-diagnostics",
        "openshift-network-operator",
        "openshift-node",
        "openshift-oauth-apiserver",
        "openshift-openstack-infra",
        "openshift-operator-lifecycle-manager",
        "openshift-operators",
        "openshift-ovirt-infra",
        "openshift-sdn",
        "openshift-service-ca",
        "openshift-service-ca-operator",
        "openshift-user-workload-monitoring",
        "openshift-vsphere-infra",
        "pcloud",
        "postgresql",
        "trident"
    ],
    "defaultStorageClass": "4bacbb3c-0727-4f58-b13c-3a2a069baf89",
    "cloudID": "4f1e1086-f415-4451-a051-c7299cd672ff",
    "credentialID": "7ffd7354-b6c2-4efa-8e7b-cf64d5598463",
    "isMultizonal": "false",
    "tridentManagedStateAllowed": [
        "unmanaged"
    ],
    "tridentVersion": "22.10.0",
    "apiServiceID": "98df44dc-2baf-40d5-8826-e198b1b40909",
    "metadata": {
        "labels": [
            {

```

```
        "name": "astra.netapp.io/labels/read-
only/cloudName",
        "value": "private"
    }
],
"creationTimestamp": "2022-11-03T15:50:59Z",
"modificationTimestamp": "2022-11-04T14:42:32Z",
"createdBy": "00000000-0000-0000-0000-000000000000"
}
}
]
```

Add a cluster using credentials

You can add a cluster so it will be available to be managed by Astra. Beginning with the Astra 22.11 release, you can add a cluster with both Astra Control Center and Astra Control Service.



Adding a cluster is not required when using a Kubernetes service from one of the major cloud providers (AKS, EKS, GKE).

1. Obtain the kubeconfig file

You need to obtain a copy of the **kubeconfig** file from your Kubernetes administrator or service.

2. Prepare the kubeconfig file

Before using the **kubeconfig** file, you should perform the following operations:

Convert file from YAML format to JSON

If you receive the kubeconfig file formatted as YAML, you need to convert it to JSON.

Encode JSON in base64

You must encode the JSON file in base64.

Example

Here is an example of converting the kubeconfig file from YAML to JSON and then encoding it in base64:

```
yq -o=json ~/.kube/config | base64
```

3. Select the cloud

Perform the workflow [List the clouds](#) and select the cloud where the cluster will be added.



The only cloud you can select is the **private** cloud.

4. Create a credential

Perform the following REST API call to create a credential using the kubeconfig file.

HTTP method	Path
POST	/accounts/{account_id}/core/v1/credentials

JSON input example

```
{  
  "type" : "application/astra-credential",  
  "version" : "1.1",  
  "name" : "Cloud One",  
  "keyType" : "kubeconfig",  
  "keyStore" : {  
    "base64": encoded_kubeconfig  
  },  
  "valid" : "true"  
}
```

Curl example

```
curl --location -i --request POST  
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/core/v1/credentials'  
--header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data  
@JSONinput
```

5. Add the cluster

Perform the following REST API call to add the cluster to the cloud. The value of the `credentialID` input field is obtained from the REST API call in the previous step.

HTTP method	Path
POST	/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters

JSON input example

```
{  
  "type" : "application/astra-cluster",  
  "version" : "1.1",  
  "credentialID": credential_id  
}
```

Curl example

```
curl --location -i --request POST  
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/clouds/<CLOUD_ID>/clusters' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>' --data @JSONinput
```

List managed clusters

You can list the Kubernetes clusters currently managed by Astra.

1. List the managed clusters

Perform the following REST API call.

HTTP method	Path
GET	/accounts/{account_id}/topology/v1/managedClusters

Curl example: Return all data for all clusters

```
curl --location -i --request GET  
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/managedClusters'  
' --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'
```

Manage a cluster

You can manage a Kubernetes cluster so that data protection can be performed.

1. Select the cluster to manage

Perform the workflow [List clusters](#) and select the desired cluster. The property `managedState` of the cluster must be unmanaged.

2. Optionally select the storage class

Optionally perform the workflow [List storage classes](#) and select the desired storage class.



If you don't provide a storage class on the call to manage the cluster, your default storage class will be used.

3. Manage the cluster

Perform the following REST API call to manage the cluster.

HTTP method	Path
POST	/accounts/{account_id}/topology/v1/managedClusters

JSON input example

```
{  
  "type": "application/astra-managedCluster",  
  "version": "1.0",  
  "id": "d0fdf455-4330-476d-bb5d-4d109714e07d"  
}
```

Curl example

```
curl --location -i --request POST  
'https://astra.netapp.io/accounts/<ACCOUNT_ID>/topology/v1/managedClusters'  
  --header 'Accept: */*' --header 'Authorization: Bearer <API_TOKEN>'  
--data @JSONinput
```

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