



## **Storage**

### **Astra Automation 22.08**

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# Storage

## List storage classes

You can list the available storage classes.

### 1. Select the cloud

Perform the workflow [List the clouds](#) and select the cloud you'll be working in.

### 2. Select the cluster

Perform the workflow [List the clusters](#) and select the cluster.

### 3. List the storage classes for a specific cluster

Perform the following REST API call to list the storage classes for a specific cluster and cloud.

HTTP method	Path
GET	/account/{account_id}/topology/v1/clouds/<CLOUD_ID>/clusters/<CLUSTER_ID>/storageClasses

### Curl example: Return all data for all storage classes

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

### JSON output example

```
{
  "items": [
    {
      "type": "application/astra-storageClass",
      "version": "1.1",
      "id": "4bacbb3c-0727-4f58-b13c-3a2a069baf89",
      "name": "ontap-basic",
      "provisioner": "csi.trident.netapp.io",
      "available": "eligible",
      "allowVolumeExpansion": "true",
      "reclaimPolicy": "Delete",
      "volumeBindingMode": "Immediate",
      "isDefault": "true",
      "metadata": {
        "createdBy": "system",
```

```

        "creationTimestamp": "2022-10-26T05:16:19Z",
        "modificationTimestamp": "2022-10-26T05:16:19Z",
        "labels": []
    }
},
{
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "150fe657-4a42-47a3-abc6-5dafba3de8bf",
    "name": "thin",
    "provisioner": "kubernetes.io/vsphere-volume",
    "available": "ineligible",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "Immediate",
    "metadata": {
        "createdBy": "system",
        "creationTimestamp": "2022-10-26T04:46:08Z",
        "modificationTimestamp": "2022-11-04T14:58:19Z",
        "labels": []
    }
},
{
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "7c6a5c58-6a0d-4cb6-98a0-8202ad2de74a",
    "name": "thin-csi",
    "provisioner": "csi.vsphere.vmware.com",
    "available": "ineligible",
    "allowVolumeExpansion": "true",
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "WaitForFirstConsumer",
    "metadata": {
        "createdBy": "system",
        "creationTimestamp": "2022-10-26T04:46:17Z",
        "modificationTimestamp": "2022-10-26T04:46:17Z",
        "labels": []
    }
},
{
    "type": "application/astra-storageClass",
    "version": "1.1",
    "id": "7010ef09-92a5-4c90-a5e5-3118e02dc9a7",
    "name": "vsim-san",
    "provisioner": "csi.trident.netapp.io",
    "available": "eligible",
    "allowVolumeExpansion": "true",

```

```
    "reclaimPolicy": "Delete",
    "volumeBindingMode": "Immediate",
    "metadata": {
      "createdBy": "system",
      "creationTimestamp": "2022-11-03T18:40:03Z",
      "modificationTimestamp": "2022-11-03T18:40:03Z",
      "labels": []
    }
  }
]
}
```

## List storage backends

You can list the available storage backends.

### 1. List the backends

Perform the following REST API call.

HTTP method	Path
GET	/account/{account_id}/topology/v1/storageBackends

### Curl example: Return all data for all storage backends

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

### JSON output example

```
{
  "items": [
    {
      "backendCredentialsName": "10.191.77.177",
      "backendName": "myinchunhcluster-1",
      "backendType": "ONTAP",
      "backendVersion": "9.8.0",
      "configVersion": "Not applicable",
      "health": "Not applicable",
      "id": "46467c16-1585-4b71-8e7f-f0bc5ff9da15",
      "location": "nalab2",
      "metadata": {
        "createdBy": "4c483a7e-207b-4f9a-87b7-799a4629d7c8",
        "creationTimestamp": "2021-07-30T14:26:19Z",
        "modificationTimestamp": "2021-07-30T14:26:19Z"
      },
      "ontap": {
        "backendManagementIP": "10.191.77.177",
        "managementIPs": [
          "10.191.77.177",
          "10.191.77.179"
        ]
      },
      "protectionPolicy": "Not applicable",
      "region": "Not applicable",
      "state": "Running",
      "stateUnready": [],
      "type": "application/astra-storageBackend",
      "version": "1.0",
      "zone": "Not applicable"
    }
  ]
}
```

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