



## **Manage datastores**

### **ONTAP tools for VMware vSphere 10.0**

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# Manage datastores

## Expand or shrink Storage of vVol Datastore

There are APIs to increase or decrease the available storage.

### Steps

Use the following API to expand or shrink the vVols datastore:

```
PATCH
/virtualization/api/v1/vcenters/{vcguid}/vvols/datastores/{moref}/volumes
```

### Examples

- Modify vVols datastore for add new volume

```
PATCH virtualization/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-
691250bfe2df/vvols/datastores/datastore-24/volumes
```

Request Body

```
{
  "operation": "grow",
  "volumes": [{
    "is_existing": false,
    "name": "exp3",
    "size_in_mb": 51200,
    "space_efficiency": "thin",
    "aggregate": {
      "id": "1466e4bf-c6d6-411a-91d5-c4f56210e1ab"
    },
    "storage_backend": {
      "storage_id": "13d86e4f-1fb1-11ee-9509-005056a75778"
    },
    "qos": {
      "max_iops": 5000
    }
  }]
}
```

- Modify vVols datastore for add existing volume

```
PATCH virtualization/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-691250bfe2df/vvols/datastores/datastore-24/volumes
```

Request Body

```
{
  "operation": "grow",
  "volumes": [{
    "is_existing": true,
    "id": "vfded9ad-6bsd-4c9e-b44g-691250bfe2sd"
  }]
}
```

- Modify vVols datastore for remove volume and delete volume from storage

```
PATCH virtualization/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-691250bfe2df/vvols/datastores/datastore-24/volumes?delete_volumes=true
```

Request Body

```
{
  "operation": "shrink",
  "volumes": [{
    "is_existing": true,
    "id": "vfded9ad-6bsd-4c9e-b44g-691250bfe2sd"
  }]
}
```

- Modify vVols datastore for remove volume and do not delete volume from storage

```
PATCH virtualization/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-691250bfe2df/vvols/datastores/datastore-24/volumes?delete_volumes=false
```

Request Body

```
{
  "operation": "shrink",
  "volumes": [{
    "is_existing": true,
    "id": "vfded9ad-6bsd-4c9e-b44g-691250bfe2sd"
  }]
}
```

## Delete vVols datastore

This API deletes the VMware Virtual Volumes (vVols) datastore from storage.

## About this task

A vVols datastore exists as long as at least one FlexVol volume is available on the datastore. If you want to delete a vVols datastore in a HA cluster, you should first unmount the datastore from all hosts within the HA cluster, and then delete the residing *.vsphere-HA* folder manually using the vCenter server user interface.

## Steps

Use the following API to delete vVols datastore.

```
DELETE
/virtualization/api/v1/vcenters/{vcguid}/vvols/datastores/{moref}
```

## Examples

- Delete vVols datastore and delete volumes from storage

```
DELETE /api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-
691250bfe2df/vvols/datastores/datastore-28?delete_volumes=true
```



Delete vVols Datastore workflow deletes datastore-volumes if you have passed the `delete_volume` flag as true irrespective of if the datastore-volume is managed or not managed.

- Delete vVols datastore and do not delete volumes from storage

```
DELETE /api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-
691250bfe2df/vvols/datastores/datastore-28?delete_volumes=false
```

Response:

```
{
  "id": "1889"
}
```

## Mount and unmount a vVols datastore

You can mount a VMware Virtual Volumes (vVols) datastore to one or more additional hosts by using the Mount vVols Datastore dialog box. Mounting the datastore provides storage access to additional hosts. You can also unmount vVols datastore.

Use the following API to mount or unmount a vVols datastore. You need to pass `x-auth` for the API. You can generate this `x-auth` from the new API added under Auth in Swagger.

```
/virtualization/api/v1/auth/vcenter-login
```

PATCH

```
/virtualization/api/v1/vcenters/{vcguid}/vvol/datastores/{moref}/hosts
```

Get vVol datastore moref from vCenter.

#### Request Body

```
{  
  "operation": "mount",  
  "morefs": [  
    "host-7044"  
  ],  
}
```

#### Examples:

- Mount on additional host

Use the following API to mount on additional host:

```
/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-  
691250bfe2df/vvols/datastores/datastore-24/hosts
```

#### Request Body

```
{  
  "operation": "mount",  
  "morefs": ["host-13"],  
}
```

- Unmount on additional host

Use the following API to unmount on additional host:

```
/api/v1/vcenters/cdded9ad-6bsd-4c9e-b44g-  
691250bfe2df/vvols/datastores/datastore-24/hosts
```

Request Body

```
{  
  "operation": "unmount",  
  "morefs": ["host-13"],  
}
```

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