



Configuration: Storage-admin tasks

NetApp Solutions

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The following resources must be configured by a storage administrator:

1. Log into the NetApp ONTAP cluster as admin.
2. Navigate to Storage > Storage VMs and click Add. Create two SVMs, one for project-1 and the other for project-2, by providing the required details. Also create a vsadmin account to manage the SVM and its resources.

Add Storage VM ✕

STORAGE VM NAME

project-1-svm

Access Protocol

☒ SMB/CIFS, NFS

iSCSI

☐ Enable SMB/CIFS

☒ Enable NFS

☒ Allow NFS client access

Add at least one rule to allow NFS clients to access volumes in this storage VM. [?](#)

EXPORT POLICY

Default

RULES

Rule Index	Clients	Access Protocols	Read-Only R...	Read/Wr
	10.61.181.0/24	Any	Any	Any

[+](#) Add

DEFAULT LANGUAGE [?](#)

c.utf_8

NETWORK INTERFACE

Use multiple network interfaces when client traffic is high.

K8s-Ontap-01

IP ADDRESS

10.61.181.224

SUBNET MASK

24

GATEWAY

[Add optional gateway](#)

BROADCAST DOMAIN

Default-4

3. Log into the Red Hat OpenShift cluster as the storage administrator.
4. Create the backend for project-1 and map it to the SVM dedicated to the project. NetApp recommends using the SVM's vsadmin account to connect the backend to SVM instead of using the ONTAP cluster administrator.

```
cat << EOF | tridentctl -n trident create backend -f
{
  "version": 1,
  "storageDriverName": "ontap-nas",
  "backendName": "nfs_project_1",
  "managementLIF": "172.21.224.210",
  "dataLIF": "10.61.181.224",
  "svm": "project-1-svm",
  "username": "vsadmin",
  "password": "NetApp123"
}
EOF
```



We are using the ontap-nas driver for this example. Use the appropriate driver when creating the backend based on the use case.



We assume that Trident is installed in the trident project.

5. Similarly create the Trident backend for project-2 and map it to the SVM dedicated to project-2.
6. Next, create the storage classes. Create the storage class for project-1 and configure it to use the storage pools from backend dedicated to project-1 by setting the storagePools parameter.

```
cat << EOF | oc create -f -
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
  name: project-1-sc
provisioner: csi.trident.netapp.io
parameters:
  backendType: ontap-nas
  storagePools: "nfs_project_1:.*"
EOF
```

7. Likewise, create a storage class for project-2 and configure it to use the storage pools from backend dedicated to project-2.
8. Create a ResourceQuota to restrict resources in project-1 requesting storage from storageclasses dedicated to other projects.

```
cat << EOF | oc create -f -
kind: ResourceQuota
apiVersion: v1
metadata:
  name: project-1-sc-rq
  namespace: project-1
spec:
  hard:
    project-2-sc.storageclass.storage.k8s.io/persistentvolumeclaims: 0
EOF
```

9. Similarly, create a ResourceQuota to restrict resources in project-2 requesting storage from storageclasses dedicated to other projects.

Next: [Validation](#).

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