



Configuration: Storage-admin tasks

NetApp Solutions

Alan V Cowles, Dorian Henderson
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Table of Contents

Configuration: Storage-admin tasks 1

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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, providing the required details. Also create an 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. Login to 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 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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