

**cDOT 9.1Px Vserver Volume Rehosting**

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# Introduction

## Management Summary

This document details the process used to rehost a volume in cDOT 9.1Px to enable volumes to be moved easily between vservers with no data copy.

## Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Ver** | **Date** | **Author** | **Key Changes** |
| 0.1 | June 2017 | Ian Daniel | Initial Version |
| 0.2 | July 2017 | Ian Daniel | Updated following comments |
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## Distribution List

|  |  |
| --- | --- |
| **Name** | **Role** |
| Storage Engineering | Reviewer |
| Storage Delivery | Reviewer |
| Storage Architecture | Reviewer |

## Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| cDOT | clustered Data ONTAP |
| Vserver | A logical storage virtual server, also known as a Storage Virtual Machine (SVM), which contains LIFs, Volumes, and configuration information such as access control details. |
| LIF | Logical Interface – a cDOT logical network interface with an IP address, assigned to a single Vserver. |
| CIFS | Short for Common Internet File System, a protocol that defines a standard for remote file access using millions of computers at a time. With CIFS, users with different platforms and computers can share files without having to install new software. |
| SMB | Short for Server Message Block, a message format used by DOS and Windows to share files, directories and devices. |
| NFS | A distributed file system protocol originally developed by Sun Microsystems in 1984, allowing a user on a client computer to access files over a computer network much like local storage is accessed. |

# Volume Rehosting

## Description

In order to rehost a volume onto a different vserver we need to perform the following steps.

## Tasks

The following tasks are carried out.

### ****EnsureThe Volume Is Not Being Accessed****

In order to rehost a volume onto a different vserver we need to unmount it so you must first ensure nothing is using it...

### ****Unmount Source Volume****

Unmount the volume on the source vserver as follows:

orf-lab2554::> vol unmount -vserver labsvm-e0005 -volume rehost\_test\_01

### ****Rehost Source Volume****

Rehost the volume as follows:

orf-lab2554::> vol rehost -vserver labsvm-e0005 -volume rehost\_test\_01 -destination-vserver labsvm-e0006

Warning: Rehosting a volume from one Vserver to another Vserver does not change the security information on that volume.

         If the security domains of the Vservers are not identical, unwanted access might be permitted, and desired access might be denied. An attempt to rehost

         a volume will disassociate the volume from all volume policies and policy rules. The volume must be reconfigured after a successful or unsuccessful

         rehost operation.

Do you want to continue? {y|n}: y

[Job 9855] Job is queued: Volume rehost operation on volume "rehost\_test\_01" on Vserver "labsvm-e0005" to destination Vserver "labsvm-e0006" by administrator "ad                                 [Job 9855] Job is queued: Volume rehost operation on volume "rehost\_test\_01" on Vserver "labsvm-e0005" to destination Vserver "labsvm-e0006" by administrator "ad                                 [Job 9855] Job succeeded: Successful

Info: Volume is successfully rehosted on the target Vserver.

Set the desired volume configuration - such as the export policy and QoS policy - on the target Vserver.

### ****Check The Volume Is Available On The Destination Vserver****

orf-lab2554::> vol show -vserver labsvm-e0005,labsvm-e0006

Vserver   Volume       Aggregate    State      Type       Size  Available Used%

--------- ------------ ------------ ---------- ---- ---------- ---------- -----

labsvm-e0005

          labsvm\_e0005\_root

                       aggr1\_LowTier\_orf\_lab2554\_02

                                    online     RW          1GB    972.5MB    5%

labsvm-e0006

          cb0000\_infra\_virtual\_ase0006\_snap07

                       aggr1\_LowTier\_orf\_lab2554\_02

                                    online     RW       3.78TB     3.02TB   20%

labsvm-e0006

          labsvm\_e0006\_root

                       aggr1\_LowTier\_orf\_lab2554\_02

                                    online     RW          1GB    972.3MB    5%

labsvm-e0006

rehost\_test\_01

                       aggr1\_LowTier\_orf\_lab2554\_02

                                    online     RW        100GB    95.00GB    5%

4 entries were displayed.

### ****Remove Export Policy and QOS Policy From Source Vserver****

orf-lab2554::\*> export-policy delete -vserver labsvm-e0005 -policyname rehost\_test\_01

orf-lab2554::\*> qos policy-group delete -policy-group rehost\_test\_01

Warning: This will remove the policy group.

Do you want to continue? {y|n}: y

### ****Configure Exports/QoS/Quotas****

Once a volume is re-hosted you will need to setup a new export-policy and rules, QoS policy and any required quotas. You will also need to mount the volume.