



Preparing the cluster for transition

ONTAP 7-Mode Transition

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April 11, 2021

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Before transition, you must ensure that the cluster meets requirements such as allowing HTTPS, setting up intercluster LIFs, and verifying the network connectivity for transition.

- The cluster and the SVM must already be set up.

Software setup

The target SVM must not be in an SVM disaster recovery relationship.

- The cluster must be healthy and none of the nodes must be in takeover mode.
- The target aggregates that will contain the transitioned volumes must have an SFO policy.
- The aggregates must be on nodes that have not reached the maximum volume limit.
- If you want to transition volumes from a 32-bit aggregate of a 7-Mode system to a 64-bit aggregate of a Data ONTAP 8.2.x cluster, you must have provided an additional 5 percent space in the destination aggregate.

The additional space is required to upgrade the transitioned volume to 64-bit format.

Disk and aggregate management

- For establishing an SVM peer relationship when transitioning a volume SnapMirror relationship, the following conditions must be met:
 - The secondary cluster should not have an SVM with the same name as that of the primary SVM.
 - The primary cluster should not have an SVM with the same name as that of the secondary SVM.
 - The name of the source 7-Mode system should not conflict with any of the local SVMs or SVMs that are already peered.

You should not upgrade the cluster to a different ONTAP version during transition.



You can upgrade the cluster to a patch release of the same ONTAP version, if required.

Steps

1. From an administration host, verify that the cluster is reachable by using the cluster-management LIF:

```
ssh username@cluster_mgmt_IP
```

2. Enable SSLv3 or FIPS on the cluster:

If you want to enable...	Enter...
SSLv3	<pre>system services web modify -sslv3 -enabled true</pre>
FIPS 140-2 compliance	<pre>system services web modify -ssl-fips -enabled true</pre>

When FIPS 140-2 compliance is enabled, SSLv3 is disabled. ONTAP prevents you from enabling SSLv3

when FIPS 140-2 compliance is enabled. If you enable FIPS 140-2 and then subsequently disable it, SSLv3 remains disabled.



The best practice is to enable FIPS because of the security vulnerabilities in SSLv3.

3. Verify that HTTPS is allowed on the cluster management LIF:

a. View the firewall policy for the cluster management LIF:

```
network interface show -vserver svm_name -lif cluster_mgmt_lif -fields firewall-policy
```

```
cluster1::> network interface show -vserver cluster1 -lif
cluster_mgmt -fields firewall-policy
vserver lif      firewall-policy
-----
cluster1 cluster_mgmt mgmt
```

b. Verify that the firewall policy associated with the cluster management LIF allows HTTPS access:

```
system services firewall policy show -policy mgmt
```

```
cluster1::> system services firewall policy show -policy mgmt
Policy          Service      Action IP-List
-----
mgmt
                dns         allow  0.0.0.0/0, ::/0
                http        allow  0.0.0.0/0, ::/0
                https       allow  0.0.0.0/0, ::/0
                ndmp        allow  0.0.0.0/0, ::/0
                ntp         allow  0.0.0.0/0, ::/0
                rsh         deny   0.0.0.0/0, ::/0
                snmp        allow  0.0.0.0/0, ::/0
                ssh         allow  0.0.0.0/0, ::/0
                telnet      deny   0.0.0.0/0, ::/0
9 entries were displayed.
```

System administration

4. Create an intercluster LIF on each node of the cluster for communication between the cluster and 7-Mode system:

a. **network interface create -vserver svm_name -lif intercluster_lif -role intercluster -home-node home_node -home-port home_port -address ip_address -netmask netmask**

```
cluster1::> network interface create -vserver cluster1-01 -lif
intercluster_lif -role intercluster -home-node cluster1-01 -home-port
e0c -address 192.0.2.130 -netmask 255.255.255.0
```

b. Create a static route.

If you are transitioning to...	Run this command...
ONTAP 9.5 or earlier or clustered Data ONTAP 8.3.x	<p>network route create</p> <pre>cluster1::> network route create -vserver vs0 -destination 0.0.0.0/0 -gateway 10.61.208.1</pre>
Clustered Data ONTAP 8.2.x	<p>network routing-groups route create</p> <pre>cluster1::> network routing- groups route create -vserver cluster1-01 -routing-group i192.0.0.0/18 -destination 0.0.0.0/0 - gateway 192.0.2.129</pre>

c. Verify that you can use the intercluster LIF to ping the 7-Mode system:

```
network ping -lif intercluster_lif -vserver svm_name -destination
remote_inetaddress
```

```
cluster1::> network ping -lif intercluster_lif -vserver cluster1
-destination system7mode
system7mode is alive
```

For multipathing, you must have two intercluster LIFs on each node.

[Network and LIF management](#)

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