Nodes and hosts

ONTAP Select

NetApp
November 08, 2026

This PDF was generated from https://docs.netapp.com/us-en/ontap-select-9191/cli-upgrade-esxi.html on November 08, 2026. Always check docs.netapp.com for the latest.

Table of Contents

Nodes and hosts . . . 1
- Upgrade to VMware ESXi 8.0 or later for ONTAP Select . . . 1
  - Prepare to upgrade VMware ESXi . . . 1
  - Upgrade a single-node cluster using Deploy . . . 2
  - Upgrade a multi-node cluster using Deploy . . . 2
  - Upgrade a single-node cluster without Deploy . . . 3
  - Upgrade a multi-node cluster without Deploy . . . 4
- Modify a host management server for ONTAP Select Deploy . . . 5
  - Syntax . . . 5
  - Required parameters . . . 5
  - Optional parameters . . . 5

Nodes and hosts

Upgrade to VMware ESXi 8.0 or later for ONTAP Select

If you are running ONTAP Select on VMware ESXi, you can upgrade the ESXi software from an earlier supported version to ESXi 8.0 or later. Before upgrading, you should understand the process and select the appropriate upgrade procedure.

Prepare to upgrade VMware ESXi

Prepare and select the upgrade procedure that is appropriate for your environment before upgrading the ESXi software on the hypervisors hosting an ONTAP Select cluster.

Steps

1. **Become familiar with how to upgrade VMware ESXi**

   Upgrading the ESXi software is a process described and supported by VMware. The hypervisor upgrade process is part of the larger upgrade procedure when using ONTAP Select. Refer to the VMware documentation for more information.

2. **Select an upgrade procedure**

   Several upgrade procedures are available. You should select the applicable procedure based on the following criteria:

   - ONTAP Select cluster size

     Both single-node and multi-node clusters are supported.

   - Use of ONTAP Select Deploy

     Upgrade is possible both with and without the Deploy utility.

     

     You should select an upgrade procedure that uses the Deploy administration utility.

     Performing an ESXi upgrade using the Deploy administration utility is the more general and resilient option. However, there might be instances when Deploy is unavailable or cannot be used. For example, upgrading to ESXi 8.0 is not supported with earlier versions of ONTAP Select and the Deploy administration utility.

     If you are using these earlier versions and attempt an upgrade, you can leave the ONTAP Select virtual machine in a state where it cannot be booted. In this case, you must select an upgrade procedure that does not use Deploy.

3. **Upgrade the Deploy administration utility**

   Before performing an upgrade procedure using the Deploy utility, you might need to upgrade your Deploy instance. In general, you should upgrade to the most recent version of Deploy. The Deploy utility must support the version of ONTAP Select you are using. Refer to the ONTAP Select release notes for more information.

4. **After the update procedure is complete**

If you select an upgrade procedure that uses the Deploy utility, you should perform a cluster refresh operation using Deploy after all of the nodes have been upgraded. See Refreshing the Deploy cluster configuration for more information.

Upgrade a single-node cluster using Deploy

You can use the Deploy administration utility as part of the procedure to upgrade the VMware ESXi hypervisor hosting an ONTAP Select single-node cluster.

Steps

1. Sign in to the Deploy utility CLI using SSH with the administrator account.
2. Move the node to the offline state:

```
node stop --cluster-name <cluster_name> --node-name <node_name>
```

3. Upgrade the hypervisor host where ONTAP Select is running to ESXi 8.0 or later using the procedure provided by VMware.
4. Move the node to the online state:

```
node start --cluster-name <cluster_name> --node-name <node_name>
```

5. After the node comes up, verify that the cluster is healthy.

   Example:

```
ESX-1N::> cluster show
Node           Health  Eligibility
-------------- ------- ------------
sdot-d200-011d true    true
```

After you finish

You should perform a cluster refresh operation using the Deploy administration utility.

Upgrade a multi-node cluster using Deploy

You can use the Deploy administration utility as part of the procedure to upgrade the VMware ESXi hypervisors hosting an ONTAP Select multi-node cluster.

About this task

You must perform this upgrade procedure for each of the nodes in the cluster, one node at a time. If the cluster contains four or more nodes, you should upgrade the nodes in each HA pair sequentially before proceeding to the next HA pair.

Steps

1. Sign in to the Deploy utility CLI using SSH with the administrator account.
2. Move the node to the offline state:

```
node stop --cluster-name <cluster_name> --node-name <node_name>
```

3. Upgrade the hypervisor host where ONTAP Select is running to ESXi 8.0 or later using the procedure provided by VMware.

   Refer to Preparing to upgrade VMware ESXi for more information.

4. Move the node to the online state:

```
node start --cluster-name <cluster_name> --node-name <node_name>
```

5. After the node comes up, verify that storage failover is enabled and the cluster is healthy.

   ▼ **Show example**

```
ESX-2N_I2_N11N12::> storage failover show
Takeover
Node Partner Possible State Description
-------------- -------------- -------- --------------------------
sdot-d200-011d sdot-d200-012d true Connected to sdot-d200-012d
sdot-d200-012d sdot-d200-011d true Connected to sdot-d200-011d
2 entries were displayed.
ESX-2N_I2_N11N12::> cluster show
Node Health Eligibility
--------------------- ------- ------------
sdot-d200-011d true true
sdot-d200-012d true true
2 entries were displayed.
```

After you finish

You must perform the upgrade procedure for each host used in the ONTAP Select cluster. After all the ESXi hosts are upgraded, you should perform a cluster refresh operation using the Deploy administration utility.

Upgrade a single-node cluster without Deploy

You can upgrade the VMware ESXi hypervisor hosting an ONTAP Select single-node cluster without using the Deploy administration utility.

Steps

1. Sign in to the ONTAP command line interface and halt the node.
2. Using VMware vSphere, confirm that the ONTAP Select virtual machine is powered off.
3. Upgrade the hypervisor host where ONTAP Select is running to ESXi 8.0 or later using the procedure provided by VMware.

   Refer to Preparing to upgrade VMware ESXi for more information.

4. Using VMware vSphere, access vCenter and do the following:
   a. Add a floppy drive to the ONTAP Select virtual machine.
   b. Power on the ONTAP Select virtual machine.
   c. Sign in to the ONTAP CLI using SSH with the administrator account.
5. After the node comes up, verify that the cluster is healthy.

   Example:

```
ESX-1N::> cluster show
Node           Health  Eligibility
-------------- ------- ------------
sdot-d200-011d true    true
```

After you finish

You should perform a cluster refresh operation using the Deploy administration utility.

Upgrade a multi-node cluster without Deploy

You can upgrade the VMware ESXi hypervisors hosting an ONTAP Select multi-node cluster without using the Deploy administration utility.

About this task

You must perform this upgrade procedure for each of the nodes in the cluster, one node at a time. If the cluster contains four or more nodes, you should upgrade the nodes in each HA pair sequentially before proceeding to the next HA pair.

Steps

1. Sign in to the ONTAP command line interface and halt the node.
2. Using VMware vSphere, confirm that the ONTAP Select virtual machine is powered off.
3. Upgrade the hypervisor host where ONTAP Select is running to ESXi 8.0 or later using the procedure provided by VMware.
4. Using VMware vSphere, access vCenter and do the following:
   a. Add a floppy drive to the ONTAP Select virtual machine.
   b. Power on the ONTAP Select virtual machine.
   c. Sign in to the ONTAP CLI using SSH with the administrator account.
5. After the node comes up, verify that storage failover is enabled and the cluster is healthy.

   ▼ **Show example**

```
ESX-2N_I2_N11N12::> storage failover show
Takeover
Node Partner Possible State Description
-------------- -------------- -------- --------------------------
sdot-d200-011d sdot-d200-012d true Connected to sdot-d200-012d
sdot-d200-012d sdot-d200-011d true Connected to sdot-d200-011d
```

```
2 entries were displayed.
ESX-2N_I2_N11N12::> cluster show
Node Health Eligibility
--------------------- ------- ------------
sdot-d200-011d true true
sdot-d200-012d true true
2 entries were displayed.
```

After you finish

You must perform the upgrade procedure for each host used in the ONTAP Select cluster.

Modify a host management server for ONTAP Select Deploy

You can use the `host modify` command to modify a host management server with this instance of ONTAP Select Deploy.

Syntax

`host modify [-help] [-foreground] -name` *`name`* `-mgmt-server` *`management_server`* `[-username` *`username`*`]`

Required parameters

Parameter	Description
`-name` *`name`*	The IP address or FQDN of the host you want to modify.
`-mgmt-server` *`management_server`*	The IP address or FQDN of the host management server to be set to the host. Specify "-" (hyphen) to unset the management server from the host. The credentials for this management server must be added prior to registering this host using the `credential add` command.

Optional parameters

Parameter	Description
`-help`	Displays the help message.
`-foreground`	This parameter controls the behavior of long-running commands. If set, the command will run in the foreground and event messages related to the operation will be displayed as they occur.
`-username` *`username`*	The username that has access to this host. This is required only if the host is not managed by a management server (that is, an ESXi host managed by a vCenter).

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