



## **cluster image commands**

### Command reference

NetApp

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# cluster image commands

## cluster image cancel-update

Cancel an update

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image cancel-update* command is used to cancel an update that is in either paused-by-user or paused-on-error state. An update can only be canceled if it is in a paused state.

### Examples

The following example displays a cancel-update operation:

```
cluster1::> cluster image cancel-update

Warning: The cancel operation can result in a mixed version
         cluster and/or mixed version HA pair. The cancel
         operation can take several minutes to complete.

Do you want to proceed with the cancel operation? {y|n}: y

Info: Canceling update. It may take a few minutes to finish canceling the
      update
```

## cluster image pause-update

Pause an update

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image pause-update* command is used to pause a currently running update. The update pauses at the next predefined pause point (for example, after validation, download to the boot device, takeover completion, or giveback completion) which might take some time to reach. When the update reaches the pause point, it transitions into the pause-by-user state.

### Examples

The following example displays pause-update operation:

```
cluster1::> cluster image pause-update

Info: Pausing update. It may take a few minutes to finish pausing the
update
```

## cluster image resume-update

Resume an update

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image resume-update* command is used to resume an update that is currently paused in paused-by-user or paused-on-error state. If the update is not paused then an error is returned.

### Parameters

**`[-ignore-post-update-checks-failures {true|false}]` - Ignore Post-update-checks Phase Failures (privilege: advanced)**

Specifies whether the post update checks phase warnings and/or errors should be ignored. The default value is false.

**`[-skip-firmware-update-checks {true|false}]` - Skip Firmware Update Status Checks**

Specifies whether firmware update status check will be skipped or not. By default, firmware update status check will not be skipped.

### Examples

The following example shows an resume-update operation:

```
cluster1::> cluster image resume-update

Info: Resuming update...
```

## cluster image show-update-history

Display the update history

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image show-update-history* command displays the update history for each node. By default, the command displays the following information:

- Status
- Package version
- Start time
- Completion time
- Component ID
- Previous version
- Updated version

## Parameters

{ [-fields <fieldname>,...]

If you specify the -fields <fieldname>, ... parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-instance ] }

If you specify the -instance parameter, the command displays detailed information about all fields.

**[-component-id <text>] - Component ID**

Displays updates for the specified component.

**[-start-time <MM/DD/YYYY HH:MM:SS>] - Start Time**

Displays updates with the specified start time.

**[-package-version <text>] - Package Version**

Displays updates for the specified package version.

**[-status {successful|canceled|back-out|skip-upgrade}] - Status**

Displays updates that completed with the specified status.

**[-completion-time <MM/DD/YYYY HH:MM:SS>] - Completion Time**

Displays updates with the specified completion time.

**[-previous-version <text>] - Previous Version**

Displays updates with the specified previous version.

**[-updated-version <text>] - Updated Version**

Displays updates with the specified updated version.

## Examples

The following example displays history of automated nondisruptive updates:

```
cluster1::> cluster image show-update-history
Package      Start          Completion          Previous
Updated
Status       Version        Time            Time            Component ID  Version
Version
-----
-----
```

Package	Start	Completion	Previous			
Updated						
Status	Version	Time	Time	Component ID	Version	
Version						
-----	-----	-----	-----	-----	-----	
-----	-----	-----	-----	-----	-----	
canceled	8.3	2/11/2014 12:05:51	2/11/2014 12:05:51	ssan-3240- 55a	8.3	8.3
successful	8.3	2/11/2014 14:23:58	2/11/2014 15:02:19	ssan-3240- 55a	8.3	8.3
successful	8.3	2/13/2014 16:48:42	2/18/2014 09:45:30	ssan-3240- 55a	8.3	8.3
successful	8.3	2/18/2014 10:33:10	2/18/2014 11:02:45	ssan-3240- 55a	8.3	8.3
canceled	8.3	2/11/2014 12:05:51	2/11/2014 12:05:51	ssan-3240- 55b	8.3	8.3
successful	8.3	2/11/2014 14:23:58	2/11/2014 15:54:43	ssan-3240- 55b	8.3	8.3
successful	8.3	2/13/2014 16:48:42	2/18/2014 10:05:02	ssan-3240- 55b	8.3	8.3
successful	8.3	2/18/2014 10:33:10	2/18/2014 11:22:02	ssan-3240- 55b	8.3	8.3

8 entries were displayed.

## cluster image show-update-log-detail

Display detailed information about nondisruptive update events

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `cluster image show-update-log-detail` command displays detailed information about the currently running and previously run nondisruptive update events. By default, the command displays the following information:

- Node
- Transaction ID
- Time stamp
- Destination node
- Task phase
- Task name
- Task status

- Message

## Parameters

**[-fields <fieldname>, ...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] (privilege: advanced) }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node (privilege: advanced)**

Displays information only for the specified node.

**[-task-id <integer>] - Task Id (privilege: advanced)**

Displays information only for the specified task ID.

**[-posted-time <MM/DD/YYYY HH:MM:SS>] - Posted Time (privilege: advanced)**

Displays information that occurred at the specified time.

**[-msg-seq-no <integer>] - Message Sequence (privilege: advanced)**

Displays information only for the specified message sequence number.

**[-current-pid <integer>] - Process ID (privilege: advanced)**

Displays information only for the specified process ID.

**[-destination <text>] - Task Target node (privilege: advanced)**

Displays information only for the specified destination node.

**[-ndu-phase {validation|prereq-updates|ontap-updates|package-management|default-phase|post-update-checks}] - Update phase (privilege: advanced)**

Displays information only for the specified phase.

**[-task-name {initialize|mount-image|restart-hm|get-health|run-scripts|unmount-image|clear-alert|post-restart-hm|cleanup-rd|synch-image|do-download-job|do-failover-job|do-giveback-job|check-progress|complete-validation|invalid-task|default-task|do-postupdate-checks-task}] - Task Name (privilege: advanced)**

Displays information only for the specified task name.

**[-status {created|ready-to-run|running|completed|failed|pause\_req|paused|paused-error|cancel\_req|canceled|resume\_req|default\_status}] - Status Of Task (privilege: advanced)**

Displays information only for items with the specified status.

**[-message <text>] - Update Log Message (privilege: advanced)**

Displays information only for items with the specified message.

**[-msg-type <text>] - Type of Message (privilege: advanced)**

Displays information only for items with the specified message type.

## **[-src-info <text>] - Source Information (privilege: advanced)**

Displays information only for items for the specified source.

## **Examples**

The following example displays detailed information automated nondisruptive updates:

```
cluster1::*> cluster image show-update-log-detail
      Time      Dest      Task      Task      Task
Node    TID Stamp     Node      Phase     Name      Status  Message
-----  ---  -----  -----  -----  -----  -----
-----  -----
node1   15  3/19/2014  MUM      ontap- initia  ready-  Created Task
                                update  lize    to-run
                                13:52:38   s
node1   15  3/19/2014  MUM      ontap- initia  runnin  Updated Task Status
                                update  lize    g
                                13:52:38   s
node1   16  3/19/2014  node1    ontap- do-      ready-  Created Task
                                update  downlo  to-run
                                13:52:38   s      ad-job
node1   16  3/19/2014  node1    ontap- do-      runnin  Updated Task Status
                                update  downlo  g
                                13:52:39   s      ad-job
node1   17  3/19/2014  node2    ontap- do-      ready-  Created Task
                                update  downlo  to-run
                                13:52:38   s      ad-job
node2   17  3/19/2014  node2    ontap- do-      runnin  Updated Task Status
                                update  downlo  g
                                13:52:38   s      ad-job
6 entries were displayed.
```

## **cluster image show-update-log**

Display the update transaction log

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### **Description**

The `cluster image show-update-log` command displays detailed information about the currently running, or previously run nondisruptive updates. By default, the command displays the following information:

- Phase
- Transaction
- Transaction ID

- Component ID
- Time stamp
- Status

## Parameters

**[-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] (privilege: advanced) }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-trans-id <integer>] - Transaction ID (privilege: advanced)**

Displays information for the step associated with the specified transaction ID.

**[-component-id {<nodename>|local}] - Component ID (privilege: advanced)**

Displays information for steps associated with the specified component.

**[-phase {validation|prereq-updates|ontap-updates|package-management|default-phase|post-update-checks}] - Transaction Phase (privilege: advanced)**

Displays information for steps associated with the specified update phase.

**[-trans-name {initialize|mount-image|restart-hm|get-health|run-scripts|unmount-image|clear-alert|post-restart-hm|cleanup-rd|synch-image|do-download-job|do-failover-job|do-giveback-job|check-progress|complete-validation|invalid-task|default-task|do-postupdate-checks-task}] - Transaction Name (privilege: advanced)**

Displays information for steps associated with the specified transaction.

**[-timestamp <MM/DD/YYYY HH:MM:SS>] - Timestamp (privilege: advanced)**

Displays information for steps associated with the specified timestamp.

**[-status {waiting|started|completed|paused-on-error|paused-by-user|pause-pending|cancel-pending|canceled|failed}] - Status (privilege: advanced)**

Displays information for steps matching the specified status.

## Examples

The following example displays information about automated nondisruptive update events:

cluster1::*> cluster image show-update-log						
Phase	Transaction	Id	Component Id	Time Stamp	Status	Trans
validation	initialize	50	MUM	2/18/2014 10:32:57	completed	
validation	mount-image	51	node1	2/18/2014 10:32:52	completed	
validation	mount-image	52	node2	2/18/2014 10:32:53	completed	
validation	get-health	53	MUM	2/18/2014 10:32:53	completed	
validation	run-scripts	54	node1	2/18/2014 10:32:53	completed	
validation	run-scripts	55	node2	2/18/2014 10:32:57	completed	
validation	unmount-image	56	node1	2/18/2014 10:32:57	completed	
validation	unmount-image	57	node2	2/18/2014 10:32:57	completed	
validation	complete-validation	58	MUM	2/18/2014 10:32:57	completed	
package-management	cleanup-package	66	node1	3/14/2014 09:11:51	completed	
package-management	cleanup-package	67	node2	3/14/2014 09:11:51	completed	
package-management	process-package	68	node1	3/14/2014 09:13:41	completed	
package-management	synch-image	69	node2	3/14/2014 09:14:25	completed	

13 entries were displayed.

# cluster image show-update-progress

Display the update progress

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The *cluster image show-update-progress* command displays information about the current state of an update. By default, the command displays the following information:

- Update phase
- Status
- Estimated Duration
- Elapsed Duration

## Parameters

{ [-fields <fieldname>,...]

If you specify the *-fields <fieldname>,...* parameter, the command output also includes the specified field or fields. You can use *'-fields ?'* to display the fields to specify.

| [-instance ] }

If you specify the *-instance* parameter, the command displays detailed information about all fields.

[-ndu-phase {validation|prereq-updates|ontap-updates|package-management|default-phase|post-update-checks}] - Update Phase

Displays information about the specified update phase.

[-phase-status {in-progress|waiting|paused-by-user|paused-on-error|completed|canceled|failed|pause-pending|cancel-pending}] - Phase Status

Displays information about progress matching the specified phase status.

[-phase-duration <text>] - Phase Duration

Displays information about progress matching the specified phase duration.

[-phase-comments <text>] - Phase Comments

Displays information about progress matching the specified phase comments.

[-elapsed-duration {<seconds>| [<d> days] <hh>:<mm>[:<ss>]}] - Elapsed duration of the phase

Displays information about progress matching the specified elapsed duration.

[-estimated-duration {<seconds>| [<d> days] <hh>:<mm>[:<ss>]}] - Estimated duration of the phase

Displays information about progress matching the specified estimated duration.

**[-phase-description <text>] - Phase Description**

Displays information about progress matching the specified phase description.

**[-subsystem-name <text>] - Subsystem Name**

Displays information about progress matching the specified subsystem name.

**[-subsystem-status <text>] - Subsystem Status**

Displays information about progress matching the specified subsystem status.

**[-subsystem-details <text>] - Subsystem Details**

Displays information about progress matching the specified subsystem details. The "firmware update" status is reflected in the following states: - not started: The firmware update process has not been initiated. - no change: The firmware update was completed without any changes. - pending: The firmware update is pending. - in progress: The firmware update is currently in progress. - completed: The firmware update is completed with changes. - error: An error occurred during the firmware update process. - aborted: The firmware update process was aborted.

**[-subsystem-action <text>] - Subsystem Action**

Displays information about progress matching the specified subsystem action.

## Examples

The following example shows the cluster image validate progress of two nodes, nodeA and nodeB after executing the cluster image validation command. On the first screen it shows when the pre-update check status is *in-progress* and on the second screen it shows the pre-update checks status changed to *completed*.

```
cluster1::> cluster image show-update-progress
              Estimated          Elapsed
pdate Phase      Status          Duration          Duration
-----
re-update checks  in-progress      00:10:00        00:00:13

etails:
```

```
re-update Check      Status          Error-Action
-----
-----
```

```
cluster1::> cluster image show-update-progress
pdate Phase      Status          Duration          Duration
-----
re-update checks  completed       00:10:00        00:01:09
```

```
etails:
```

```
re-update Check      Status          Error-Action
-----
-----
```

oot Menu Status	Warning	Warning: bootarg.init.bootmenu is enabled on nodes: nodeA, nodeB. The boot process of the nodes will be delayed. Action: Set the bootarg.init.bootmenu bootarg to false before proceeding with the upgrade.
anual checks	Warning	Warning: Manual validation checks need to be performed. Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining validation checks that need to be performed before update. Failing to do so can result in an update failure or an I/O disruption. Action: Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining validation checks that need to be performed before update.
FS mounts	Warning	Warning: This cluster is serving NFS clients. If NFS soft mounts are used, there is a possibility of frequent NFS timeouts and race conditions that can lead to data corruption during the upgrade. Action: Use NFS hard mounts, if possible. To list Vservers running NFS, run the following command: <code>vserver nfs show</code>
odes to update	list	Warning: List of nodes to be upgraded: "nodeA, nodeB." Action: To upgrade all selected nodes, regardless of their current version, set the (privilege: advanced) "-skip-nodes-at-target-version" parameter to "false".
		entries were displayed.

The following example shows the cluster image validate progress of two nodes, nodeA and nodeB after

executing the cluster image validation command along with option show-validation-details. On the first screen it shows when the pre-update check status is *in-progress*. On the second screen it shows the pre-update checks status changed to *completed*.

```
cluster1::> cluster image show-update-progress
          Estimated          Elapsed
pdate Phase      Status      Duration      Duration
-----
re-update checks  in-progress  00:10:00  00:00:13

etails:
re-update Check      Status      Error-Action
-----
```

```
cluster1::> cluster image show-update-progress
          Estimated          Elapsed
pdate Phase      Status      Duration      Duration
-----
re-update checks  completed  00:10:00  00:01:08

etails:
re-update Check      Status      Error-Action
-----
```

MPQ Router and	OK	N/A
roker Config		
leanup		
ggregate online	OK	N/A
tatus and parity		
heck		
ggregate plex	OK	N/A
esync status check		
pplication	OK	N/A
rovisioning Cleanup		
utoboot Bootargs	OK	N/A
tatus		
ackend	OK	N/A
onfiguration Status		
oot Menu Status	Warning	Warning: bootarg.init.bootmenu is enabled on nodes: nodeA, nodeB. The boot process of the nodes will be delayed. Action: Set the

		bootarg.init.bootmenu bootarg to false before proceeding with the upgrade.
roadcast Domain ailability and niqueness for HA air status	OK	N/A
IFS compatibility tatus check	OK	N/A
LAM quorum online tatus check	OK	N/A
PU Utilization tatus	OK	N/A
apacity licenses nstall status check	OK	N/A
heck For SP/BMC onnectivity To odes	OK	N/A
heck LDAP fastbind ers using nsecure connection.	OK	N/A
heck for unsecure ex algorithm onfigurations.	OK	N/A
heck for unsecure ac configurations.	OK	N/A
loud keymanager onnectivity check	OK	N/A
luster health and ligibility status	OK	N/A
luster quorum tatus check	OK	N/A
luster/management witch check	OK	N/A
ompatible New mage Check	OK	N/A
urrent system ersion check if it s susceptible to ossible outage	OK	N/A
uring NDU		
ata ONTAP Version nd Previous pgrade Status	OK	N/A
ata aggregates HA olicy check	OK	N/A

isk status check	OK	N/A
or failed, broken		
r non-compatibility		
uplicate Initiator	OK	N/A
heck		
ncryption key	OK	N/A
igration status		
heck		
xternal	OK	N/A
ey-manager with		
egacy KMIP client		
heck		
xternal keymanager	OK	N/A
ey server status		
heck		
abricpool Object	OK	N/A
tore Availability		
igh Availability	OK	N/A
onfiguration		
tatus check		
nfinite Volume	OK	N/A
vailability check		
IF failover	OK	N/A
apability status		
heck		
IF health check	OK	N/A
IF load balancing	OK	N/A
tatus check		
IFs is on home	OK	N/A
ode status		
ogically over	OK	N/A
llocated DP		
olumes check		
anual checks that	Warning	Warning: Manual validation checks
an be done using		need to be performed. Refer to the
pgrade ONTAP		Upgrade Advisor Plan or the "What
ocumentation		should I verify before I
		upgrade with or without Upgrade
		Advisor" section in the
		"Upgrade ONTAP" documentation
		for the remaining validation checks
		that need to be performed before
		update. Failing to do so can result
		in an update failure or an I/O
		disruption.
		Action: Refer to the Upgrade

<p>Advisory Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining validation checks that need to be performed before update.</p>		
etroCluster configuration	OK	N/A
tatus check for compatibility		
minimum number of aggregate disks	OK	N/A
heck		
ulti-Admin upgrade validation checks	OK	N/A
AE Aggregate and VE Volume	OK	N/A
ncryption Check		
DMP sessions check	OK	N/A
FS mounts status	Warning	<p>Warning: This cluster is serving NFS clients. If NFS soft mounts are used, there is a possibility of frequent NFS timeouts and race conditions that can lead to data corruption during the upgrade.</p> <p>Action: Use NFS hard mounts, if possible. To list Vservers running NFS, run the following command:</p> <pre>vserver nfs show</pre>
ame Service configuration DNS	OK	N/A
heck		
ame Service configuration LDAP	OK	N/A
heck		
etwork port reachability check	OK	N/A
ode to SP/BMC connectivity check	OK	N/A
odes to update list	Warning	<p>Warning: List of nodes to be upgraded: "nodeA, nodeB."</p> <p>Action: To upgrade all selected nodes, regardless of their current version, set the</p>

		(privilege: advanced) "-skip-nodes-at-target-version" parameter to "false".
KM/KMIP enabled systems - Missing keys check	OK	N/A
NTAP API to REST transition warning	OK	N/A
NTAP Image capability Status	OK	N/A
penSSL 3.0.x upgrade validation check	OK	N/A
penssh 7.2 upgrade validation check	OK	N/A
latform Health onitor check	OK	N/A
re-Update onfiguration erification	OK	N/A
DB Replica Health heck	OK	N/A
eplicated database schema consistency heck	OK	N/A
unning Jobs Status	OK	N/A
AN LIF association tatus check	OK	N/A
AN compatibility or manual onfigurability heck	OK	N/A
AN kernel agent tatus check	OK	N/A
ecure Purge peration Check	OK	N/A
helves and Sensors heck	OK	N/A
napLock Version heck	OK	N/A
napMirror ynchronous elationship status heck	OK	N/A
napMirror ompatibility	OK	N/A

```

status check
  supported platform    OK          N/A
  check
  target ONTAP          OK          N/A
  release support for
  interBridge 7500N
  check
  upgrade Version       OK          N/A
  compatibility Status
  verify all bgp         OK          N/A
  peer-groups are in
  the up state
  verify if a cluster   OK          N/A
  management LIF
  exists
  verify that e0M is    OK          N/A
  come to no LIFs
  with high speed
  services.
  volume Conversion    OK          N/A
  in Progress Check
  volume move           OK          N/A
  progress status
  check
  volume online         OK          N/A
  status check
  SCSI target portal    OK          N/A
  groups status check
  overall Status        Warning     Warning
  8 entries were displayed.

```

The following example shows the automated nondisruptive update of two nodes, nodeA and nodeB. In this case, nodeA's update is waiting, nodeB's update is in progress. nodeB's giveback operation is in progress.

```
cluster1::> cluster image show-update-progress
Estimated          Elapsed
Update Phase      Status           Duration      Duration
-----
Pre-update checks completed        00:10:00      00:00:02
Data ONTAP updates  in-progress    01:23:00      00:32:07
```

Details:

Node name	Status	Status Description
nodeA	waiting	
nodeB	in-progress	Performing giveback operation.

3 entries were displayed.

```
cluster1::>
```

The following example shows the automated nondisruptive update of two nodes, nodeA and nodeB. In this case, automated nondisruptive update is paused-on-error in "Data ONTAP updates" phase. nodeA's update is waiting, nodeB's update is failed. "Status Description" show nodeB's error and action.

```
cluster1:> cluster image show-update-progress
Estimated          Elapsed
Update Phase      Status           Duration      Duration
-----
Pre-update checks completed        00:10:00      00:00:02
Data ONTAP updates  paused-on-error 00:49:00      00:05:21
```

Details:

Node name	Status	Status Description
nodeA	waiting	
nodeB	failed	Error: Takeover of node "nodeB" is not possible. Action: Use the "storage failover show" command to view the cause of the failure.

2 entries were displayed.

Status: Paused - An error occurred in "Data ONTAP updates" phase. The non-disruptive update cannot continue until the error has been resolved. Resolve all issues, then use the "cluster image resume-update" command to resume the update.

```
cluster1:>
```

The following example shows that the automated nondisruptive update is paused-on-error in "Post-update checks" update phase and "Status Description" shows the error and action.

```
cluster1::> cluster image show-update-progress
Estimated          Elapsed
Update Phase      Status           Duration      Duration
-----
Data ONTAP updates completed        02:19:00      00:00:03
Post-update checks  paused-on-error 00:10:00      00:00:02

Details:

Post-update Check  Status           Error-Action
-----
Cluster Quorum    Error           Error: Cluster is not in quorum.
Status

Action: Use the (privilege: advanced)
"cluster ring show" command to verify
all replication unit details.

5 entries were displayed.
```

Status: Paused - An error occurred in "Post-update checks" phase. The non-disruptive update cannot continue until the error has been resolved. Resolve all issues, then use the "cluster image resume-update" command to resume the update.

```
cluster1::>
```

The following example shows that the automated nondisruptive update is completed on nodeA and nodeB.

```
cluster1::> cluster image show-update-progress
Estimated          Elapsed
Update Phase      Status           Duration      Duration
-----
Pre-update checks completed        00:10:00      00:00:13
Data ONTAP updates completed      01:23:00      01:15:11
Post-update checks  completed      00:10:00      00:00:02

3 entries were displayed.
```

Updated nodes: nodeA, nodeB.

```
cluster1:>
```

The following example shows the automated update of two-node MetroCluster configuration having clusters cluster\_A and cluster\_B. In this case, cluster\_A's update is waiting and cluster\_B's update is in progress. cluster\_B's switchback operation is in progress.

```

cluster_A::> cluster image show-update-progress
Estimated          Elapsed
Cluster
-----          -----
-----          -----
cluster_A          00:00:00          00:00:00          waiting
cluster_B          00:00:00          00:06:42          in-
progress

Details: Switchback in progress.

Waiting for partner cluster "sti60-vsim-ucs134f_siteB" to be up.

cluster_A::>

```

The following example shows that the automated update is completed on both cluster\_A and cluster\_B in two-node MetroCluster configuration.

```

cluster_A::> cluster image show-update-progress
Estimated          Elapsed
Cluster
-----          -----
-----          -----
cluster_A          00:00:00          00:20:44
completed
cluster_B          00:00:00          00:10:43
completed

Details: MetroCluster updated successfully.
cluster_A::>

```

## cluster image show

Display currently running image information

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image show* command displays information about the version of ONTAP that is running on each node and the date/time when it was installed. By default, the command displays the following information:

- Node name
- Current version

- Installation date and time

## Parameters

{ [-fields <fieldname>, ...]

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance ] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Displays information about the specified node.

**[-version <text>] - Current Version**

Displays information about the nodes running the specified version.

**[-date <MM/DD/YYYY HH:MM:SS>] - Date Installed**

Displays information about the nodes with the specified installation date.

## Examples

The following example displays information about currently running images on all nodes of the cluster:

```
cluster1::> cluster image show
                Current          Installation
Node          Version          Date
-----
node1          8.3              -
node2          8.3              -
2 entries were displayed.
```

## cluster image update

### Manage an update

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `cluster image update` command is used to initiate a ONTAP update. The update is preceded by a validation of the cluster to ensure that any issues that might affect the update are identified. There are two types of updates of a cluster. A rolling update updates ONTAP one HA pair at a time. This type of update is performed for clusters with fewer than eight nodes or when the `-force-rolling` option is specified for clusters with eight or more nodes. A batch update is used for clusters of eight or more nodes, and performs updates of multiple HA pairs at the same time.

There are predefined points in the update when the update can be paused (either by the user or by an error).

These pause points occur after validation, after download to the boot device, after takeover has completed, and after giveback has completed.

## Parameters

### **-version <text> - Update Version**

Specifies the ONTAP version to use to update the cluster.

### **[-nodes {<nodename>|local}] - Node**

Specifies the nodes that are to be updated. This parameter is not supported for MetroCluster configurations updates or two-stage upgrades. The node upgrade sequence does not follow the node order entered in cluster image update command

### **[-estimate-only <true>] - Estimate Only**

Creates a report of the steps that occur during the update without performing them precisely.

### **[-pause-after {none|takeover-giveback|all}] - Update Pause**

Specifies that the update should pause at each predefined pause points (for example, after validation, after download to the boot device, after takeover, and after giveback) during the update.

### **[-ignore-validation-warning {true|false}] - Ignore Validation**

Specifies that the update should proceed even if the validation reports warnings.

### **[-skip-confirmation {true|false}] - Skip Confirmation**

Specifies that a validation that does not detect any error issues should not ask the user to confirm the update but simply proceed with the update.

### **[-force-rolling <true>] - Force Rolling Update**

This option is used for clusters with eight or more nodes to specify that a rolling update (one HA pair at a time) should be done. This parameter is not supported for single-node cluster and two-node MetroCluster.

### **[-stabilize-minutes <integer>] - Minutes to stabilize**

Specifies the number of minutes that the update should wait after a takeover or giveback is completed. This allows time for the clients to recover from the pause in I/O that occurs during takeover and giveback. This parameter is not supported for single-node cluster.

### **[-show-validation-details <true>] - Shows All Validation Details**

Specify to display all validation details. Default: do not display all details.

### **[-skip-nodes-at-target-version <true>] - Skip Nodes at Target Version (privilege: advanced)**

When this parameter is *true*, only the nodes which are not running the target version are upgraded.

Nodes which are currently running the target version are skipped. The default value is *true*. This parameter cannot be set to *true* in MetroCluster configurations.

## Examples

The following example shows the cluster image update operation. configuration having node nodeA and nodeB.

```
cluster1::> cluster image update -version 9.16.1
```

Starting validation for this update...

It can take several minutes to complete validation...

WARNING: There are additional manual upgrade validation checks that must be performed after these automated validation checks have completed successfully.

Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining manual validation checks that need to be performed before update.

During ONTAP upgrade, the system firmware (BIOS and LOADER firmware) in the boot media will be replaced with the system firmware in the target ONTAP package, only if the ONTAP package contains later versions.

Prior to 9.17.1, system firmware in the boot media was always replaced with the system firmware in the target ONTAP package.

Upgrade ONTAP documentation available at: <https://docs.netapp.com/us-en/ontap/upgrade/index.html>

The list of checks are available at: [https://docs.netapp.com/us-en/ontap/upgrade/task\\_what\\_to\\_check\\_before\\_upgrade.html](https://docs.netapp.com/us-en/ontap/upgrade/task_what_to_check_before_upgrade.html)

Failing to do so can result in an update failure or an I/O disruption.

Please use Interoperability Matrix Tool (IMT

<http://mysupport.netapp.com/matrix>)

to verify host system supportability configuration information.

Pre-update Check	Status	Error-Action
Boot Menu Status	Warning	Warning: bootarg.init.bootmenu is enabled on nodes: nodeA, nodeB. The boot process of the nodes will be delayed. Action: Set the bootarg.init.bootmenu bootarg to false before proceeding with the upgrade.
Manual checks	Warning	Warning: Manual validation need to be performed. Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining

		validation checks that need to be performed before update. Failing to do so can result in an update failure or an I/O disruption.
		Action: Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining validation checks that need to be performed before update.
NFS mounts	Warning	Warning: This cluster is serving NFS clients. If NFS soft mounts are used, there is a possibility of frequent NFS timeouts and race conditions that can lead to data corruption during the upgrade.
		Action: Use NFS hard mounts, if possible. To list Vservers running NFS, run the following command: vserver nfs show
Nodes to update list	Warning	Warning: List of nodes to be upgraded: "nodeA, nodeB."
		Action: To upgrade all selected nodes, regardless of their current version, set the (privilege: advanced) "-skip-nodes-at-target-version" parameter to "false".
Overall Status	Warning	
5 entries were displayed.		
Warning: Validation has reported warnings.		
Do you want to continue? {y n}:		
Starting update...		
Info: Run the "cluster image show-update-progress" command to check update status.		

# cluster image validate

Validates the cluster's update eligibility

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The *cluster image validate* command checks for issues within the cluster that might lead to problems during the update.

## Parameters

### **[-fields <fieldname>,...]**

If you specify the *-fields <fieldname>, ...* parameter, the command output also includes the specified field or fields. You can use '*-fields ?*' to display the fields to specify.

### **[-version <text>] - Update Version**

Specifies the ONTAP version to use to validate the cluster.

### **[-rolling <true>] - Rolling Update**

Specify this optional parameter on a cluster with eight or more nodes to perform a rolling-update check. The default is to perform a batch-update check.



This parameter is only supported on a cluster with eight or more nodes, and is not supported for two-node MetroCluster.

### **[-nodes {<nodename>|local}] - Nodes**

Specifies the nodes that are to be validated. This parameter is not supported for MetroCluster configurations and for two-stage upgrades.

### **[-show-validation-details <true>] - Shows All Validation Details**

Specify to display all validation details. Default: do not display all details.

### **[-skip-nodes-at-target-version <true>] - Skip Nodes at Target Version (privilege: advanced)**

Specifies that the validation will skip the nodes which are already running target version. Default: true.

## Examples

The following example shows the validate operation:

```
cluster1::> cluster image validate -version 9.16.1
```

It can take several minutes to complete validation...

WARNING: There are additional manual upgrade validation checks that must be performed after these automated validation checks have completed successfully. Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining manual validation checks that need to be performed before update.

Upgrade ONTAP documentation available at: <https://docs.netapp.com/us-en/ontap/upgrade/index.html>

The list of checks are available at: [https://docs.netapp.com/us-en/ontap/upgrade/task\\_what\\_to\\_check\\_before\\_upgrade.html](https://docs.netapp.com/us-en/ontap/upgrade/task_what_to_check_before_upgrade.html)

Failing to do so can result in an update failure or an I/O disruption.

Please use Interoperability Matrix Tool (IMT <http://mysupport.netapp.com/matrix>) to verify host system supportability configuration information.

Validation checks started. Run the "cluster image show-update-progress" command to check validation status.

The following example shows the validate operation with validation details:

```
cluster1::> cluster image validate -version 9.16.1 -show-validation  
-details
```

It can take several minutes to complete validation...

WARNING: There are additional manual upgrade validation checks that must be performed after these automated validation checks have completed successfully.

Refer to the Upgrade Advisor Plan or the "What should I verify before I upgrade with or without Upgrade Advisor" section in the "Upgrade ONTAP" documentation for the remaining manual validation checks that need to be performed before update.

Upgrade ONTAP documentation available at: <https://docs.netapp.com/us-en/ontap/upgrade/index.html>

The list of checks are available at: [https://docs.netapp.com/us-en/ontap/upgrade/task\\_what\\_to\\_check\\_before\\_upgrade.html](https://docs.netapp.com/us-en/ontap/upgrade/task_what_to_check_before_upgrade.html)

Failing to do so can result in an update failure or an I/O disruption.

Please use Interoperability Matrix Tool (IMT <http://mysupport.netapp.com/matrix>) to verify host system supportability configuration information.

Validation checks started. Run the "cluster image show-update-progress" command to check validation status.

## cluster image package delete

Remove a package from the cluster image package repository

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `cluster image package delete` command deletes the specified version of the package from the package repository. The associated information about the package is also deleted from the update database.

### Parameters

#### **-version <text> - Version To Be Deleted**

Specifies the package version that is to be deleted.

### Examples

The following example deletes the package with version 8.3:

```
cluster1::> cluster image package delete -version 8.3
```

```
Package Delete Operation Completed Successfully
```

## cluster image package get

Fetch a package file from a URL into the cluster image package repository

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image package get* command fetches an ONTAP package file specified by the URL into the cluster. The package is stored in the cluster package repository and the information from the package is stored in the update database.

### Parameters

**-url <text>** - Package URL

Specifies the URL from which to get the package.

### Examples

The following example displays how to get a package from a URL:

```
cluster1::> cluster image package get -url http://example.com/image.tgz
```

## cluster image package show-repository

Display information about packages available in the cluster image package repository

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The *cluster image package show-repository* command displays the package versions that are in the cluster package repository. By default, the command displays the following information:

- Package version

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the *-fields <fieldname>,...* parameter, the command output also includes the specified field or fields. You can use *'-fields ?'* to display the fields to specify.

**[ -detail ]**

This parameter specifies that detailed information should be displayed.

**[ -instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-download-ver <text>] - Downloaded Version**

Displays packages with the specified download version.

**[-component-name <text>, ...] - Component Name**

Displays packages for the specified component.

**[-component-version <text>, ...] - Component Version**

Displays packages with the specified component version.

**[-package-build-time <MM/DD/YYYY HH:MM:SS>] - Package Build Time**

Displays packages with the specified build time.

## Examples

The following example displays the packages in the cluster package repository:

```
cluster1::> cluster image package show-repository
Package Version Package Build Time
-----
8.3           9/12/2014 10:27:33
```

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