



cluster image commands

Command reference

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

Node	TID	Time Stamp	Dest Node	Task Phase	Task Name	Task Status	Message
node1	15	3/19/2014 13:52:38	MUM	ontap- update s	initia lize	ready- to-run	Created Task
node1	15	3/19/2014 13:52:38	MUM	ontap- update s	initia lize	runnin g	Updated Task Status
node1	16	3/19/2014 13:52:38	node1	ontap- update s	do- downlo ad-job	ready- to-run	Created Task
node1	16	3/19/2014 13:52:39	node1	ontap- update s	do- downlo ad-job	runnin g	Updated Task Status
node1	17	3/19/2014 13:52:38	node2	ontap- update s	do- downlo ad-job	ready- to-run	Created Task
node2	17	3/19/2014 13:52:38	node2	ontap- update s	do- downlo ad-job	runnin g	Updated Task Status

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	Trans Id	Component Id	Time Stamp	Status
-----	-----	----	-----	-----	
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
```

update Phase	Status	Estimated Duration	Elapsed 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
```

update 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: vserver nfs show
odes 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".
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
```

update Phase	Status	Estimated Duration	Elapsed 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
```

update Phase	Status	Estimated Duration	Elapsed Duration
re-update checks	completed	00:10:00	00:01:08

etails:

re-update Check	Status	Error-Action
MPQ Router and router Config cleanup	OK	N/A
aggregate online status and parity check	OK	N/A
aggregate plex	OK	N/A
esync status check	OK	N/A
application provisioning Cleanup	OK	N/A
utoboot Bootargs status	OK	N/A
ackend configuration Status	OK	N/A
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	OK	N/A
vailability and niqueness for HA air status		
IFS compatibility	OK	N/A
tatus check		
LAM quorum online	OK	N/A
tatus check		
PU Utilization	OK	N/A
tatus		
apacity licenses	OK	N/A
nstall status check		
heck For SP/BMC	OK	N/A
onnectivity To odes		
heck LDAP fastbind	OK	N/A
sers using nsecure connection.		
heck for unsecure	OK	N/A
ex algorithm onfigurations.		
heck for unsecure	OK	N/A
ac configurations.		
loud keymanager	OK	N/A
onnectivity check		
luster health and	OK	N/A
ligibility status		
luster quorum	OK	N/A
tatus check		
luster/management	OK	N/A
witch check		
ompatible New	OK	N/A
mage Check		
urrent system	OK	N/A
ersion check if it s susceptible to ossible outage		
uring NDU		
ata ONTAP Version	OK	N/A
nd Previous pgrade Status		
ata aggregates HA	OK	N/A
olicy check		

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		
annual checks that	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
an be done using		
pgrade ONTAP		
ocumentation		

		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.
etroCluster	OK	N/A
onfiguration		
tatus check for		
ompatibility		
inimum number of	OK	N/A
ggregate disks		
heck		
ulti-Admin upgrade	OK	N/A
alidation checks		
AE Aggregate and	OK	N/A
VE Volume		
ncryption Check		
DMP sessions check	OK	N/A
FS mounts status	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
heck		
ame Service	OK	N/A
onfiguration DNS		
heck		
ame Service	OK	N/A
onfiguration LDAP		
heck		
etwork port	OK	N/A
eachability check		
ode to SP/BMC	OK	N/A
onnectivity check		
odes 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".
```

KM/KMIP enabled	OK	N/A
systems - Missing		
keys check		
NTAP API to REST	OK	N/A
ransition warning		
NTAP Image	OK	N/A
apability Status		
penSSL 3.0.x	OK	N/A
pgrade validation		
heck		
penssh 7.2 upgrade	OK	N/A
alidation check		
latform Health	OK	N/A
onitor check		
re-Update	OK	N/A
onfiguration		
erification		
DB Replica Health	OK	N/A
heck		
eplicated database	OK	N/A
chema consistency		
heck		
unning Jobs Status	OK	N/A
AN LIF association	OK	N/A
tatus check		
AN compatibility	OK	N/A
or manual		
onfigurability		
heck		
AN kernel agent	OK	N/A
tatus check		
ecure Purge	OK	N/A
peration Check		
helves and Sensors	OK	N/A
heck		
napLock Version	OK	N/A
heck		
napMirror	OK	N/A
ynchronous		
elationship status		
heck		
napMirror	OK	N/A
ompatibility		

tatus check		
upported platform	OK	N/A
heck		
arget ONTAP	OK	N/A
elease support for		
iberBridge 7500N		
heck		
pgrade Version	OK	N/A
ompatibility Status		
erify all bgp	OK	N/A
eer-groups are in		
he up state		
erify if a cluster	OK	N/A
anagement LIF		
xists		
erify that e0M is	OK	N/A
ome to no LIFs		
ith high speed		
ervices.		
olume Conversion	OK	N/A
n Progress Check		
olume move	OK	N/A
rogress status		
heck		
olume online	OK	N/A
tatus check		
SCSI target portal	OK	N/A
roups status check		
verall 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 Update Phase	Elapsed 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 Update Phase	Elapsed 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 Status	Error	Error: Cluster is not in quorum. 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 Update Phase	Elapsed 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                Duration      Duration      Status
-----
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                Duration      Duration      Status
-----
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
```

Node	Current Version	Installation 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

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: <code>vserver nfs show</code>
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) <code>"-skip-nodes-at-target-version"</code> 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

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

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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