



vserver migrate commands

ONTAP 9.5 commands

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vserver migrate commands

vserver migrate cleanup

Remove migrating entity

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

Description

This command cleans up the migrate destination Vserver. If the Vserver migrate operation has failed or is paused, use this command to delete the destination Vserver.

Parameters

-vserver <vserver name> - Vserver Name
Name of the Vserver which is being migrated.

Examples

```
cluster1::> vserver migrate cleanup -vserver test
```

vserver migrate cutover

Perform Cutover of the migrate operation

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

Description

This command performs a cutover of the Vserver from the source cluster to the destination cluster. It must be run on the destination cluster of the Vserver migrate.

Parameters

-vserver <vserver name> - Vserver Name
Name of the Vserver which is being migrated.

Examples

```
cluster1::> vserver migrate cutover -vserver test
```

vserver migrate pause

Pause a Vserver migrate operation

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

Description

This command pauses a Vserver migrate operation. Both data transfer and configuration replication are stopped. It must be run on the destination cluster of the Vserver migrate operation.

Parameters

-vserver <vserver name> - Vserver Name

Name of the Vserver whose migrate will be paused.

Examples

```
cluster1::> vserver migrate pause -vserver test
```

vserver migrate repeer

Repeer Existing Vserver Peer Relationships after Vserver Migration

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

Description

This command re-establishes the existing Vserver peer relationships after Vserver migration has finished.

Parameters

-source-cluster <text> - Source Cluster Name

Name of the source cluster.

-vserver-name <text> - migrated vserver name

Name of the Vserver that has finished migrating.

Examples

```
cluster1::> vserver migrate repeer -source-cluster cluster-2 -vserver-name test.
```

vserver migrate resume

Resume a migrate operation

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

Description

This command resumes a Vserver migrate operation. It must be run on the destination cluster of the Vserver migrate operation. The migrate operation, which either previously failed or was paused in order to prioritize other cluster operations, can be resumed.

Parameters

-vserver <vserver name> - Vserver Name

Name of the Vserver being migrated.

[-force {true|false}] - Force flag for continuing with disruptive migrate

If set to true, the Vserver migrate will be disruptive, and will continue to completion even if cutover lasts longer than its normal 30 second window.

[-auto-cutover {true|false}] - Automatically cutover when ready

This parameter is to specify if the Vserver migrate operation should cutover automatically when ready.

[-skip-performance-check {true|false}] - Skip checking iops requirement of volume on destination aggregates

If set to true, the destination aggregates will not be checked to see if they meet the IOPS requirements.

Examples

```
cluster1::> vserver migrate resume -vserver test -force false -auto-cutover false -skip-performance-check false
```

vserver migrate show-progress

Display status of volumes in a migrating Vservers

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

Description

This command displays data transfer progress of all the volumes in migrating Vservers.

Parameters

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

This specifies the fields that need to be displayed.

| [-instance] }

If this parameter is specified, the command displays detailed volume progress information.

[-vserver <vserver name>] - Vserver

Name of the Vserver which is migrating.

[-volume <volume name>] - Volume Name

If this parameter is specified, the command displays the details of volume progress that matches specified volume.

[-vserver-uuid <UUID>] - Vserver UUID

If this parameter is specified, the command displays the details of volume progress that matches specified Vserver UUID.

[--source-cluster-uuid <UUID>] - Source Cluster Uuid

If this parameter is specified, the command displays the details of volume progress that matches specified source cluster UUID.

[--bytes-transferred {<integer>[KB|MB|GB|TB|PB] }] - Bytes transferred per volume

If this parameter is specified, the command displays the details of volume progress that matches specified bytes transferred.

[--bytes-to-be-transferred {<integer>[KB|MB|GB|TB|PB] }] - Bytes to be transferred per volume

If this parameter is specified, the command displays the details of volume progress that matches specified bytes to be transferred.

[--transfer-rate <text>] - Rate of data transfers

If this parameter is specified, the command displays the details of volume progress that matches specified transfer rate.

[--transfer-start-time <integer>] - Transfer start time

If this parameter is specified, the command displays the details of volume progress that matches specified transfer start time.

[--total-bytes-to-be-transferred {<integer>[KB|MB|GB|TB|PB] }] - Total bytes to be transferred per vsver

If this parameter is specified, the command displays the details of volume progress that matches specified total bytes to be transferred.

[--progress-time-last-updated <integer>] - Real time progress time given by SnapMirror

If this parameter is specified, the command displays the details of volume progress that matches specified real time progress time given by snapmirror.

[--last-transfer-time <integer>] - Last transfer time

If this parameter is specified, the command displays the details of volume progress that matches specified last transfer time.

[--progress-bytes-last-updated {<integer>[KB|MB|GB|TB|PB] }] - Real time progress bytes given by SnapMirror

If this parameter is specified, the command displays the details of volume progress that matches specified real time progress bytes given by snapmirror.

[--time-remaining <text>] - Remaining time for bytes transfer

If this parameter is specified, the command displays the details of volume progress that matches specified time remaining for bytes transfer.

[--percent-complete <percent>] - Percentage of transfer completed

If this parameter is specified, the command displays the details of volume progress that matches specified percentage of transfer completed.

[--total-bytes-transferred {<integer>[KB|MB|GB|TB|PB] }] - Total bytes transferred per vsver

If this parameter is specified, the command displays the details of volume progress that matches specified total bytes transferred per vsver.

[~~-average-transfer-rate~~ <text>] - Average transfer rate per vsriver

If this parameter is specified, the command displays the details of volume progress that matches specified average transfer rate per vsriver.

[~~-total-time-remaining~~ <text>] - Total Time Remaining per vsriver

If this parameter is specified, the command displays the details of volume progress that matches specified total time remaining per vsriver.

[~~-total-percent-complete~~ <percent>] - Total Percent complete per vsriver

If this parameter is specified, the command displays the details of volume progress that matches specified total percent of transfer complete per vsriver.

[~~-total-used~~ {<integer>[KB|MB|GB|TB|PB]}] - Total Used

If this parameter is specified, the command displays the details of volume progress that matches specified total used size.

Examples

```
cluster1::> vsriver migrate show-progress -vsriver test
```

vsriver migrate show-volume

Display status of volumes in a migrating Vservers

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

Description

This command displays status of all the volumes in a migrating Vservers.

Parameters

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

This specifies the fields that need to be displayed.

| [~~-instance~~] }

If this parameter is specified, the command displays detailed volume status information.

[~~-vsriver~~ <vsriver name>] - Vserver Name

Name of the Vserver which is migrating.

[~~-volume~~ <volume name>] - Volume Name

If this parameter is specified, the command displays detailed volume status information that matches specified volume.

[~~-volume-dsid~~ <integer>] - Volume DSID

If this parameter is specified, the command displays the details of volume status that matches specified DSID.

[-volume-msid <integer>] - Volume MSID

If this parameter is specified, the command displays the details of volume status that matches specified MSID.

[-vserver-uuid <UUID>] - Vserver UUID

If this parameter is specified, the command displays the details of volume status that matches specified Vserver UUID.

[-node <nodename>] - Node

If this parameter is specified, the command displays the details of volume status that matches specified node.

[-state {Transfer | ReadyForCutover | PreCutover | Penultimate | CutoverStarted | CutoverComplete | Cleanup | MigrateFailed}] - Status of the transfer

If this parameter is specified, the command displays the details of volume status that matches specified vserver migrate status.

[-last-transfer-duration <integer>] - Duration of last transfer in seconds

If this parameter is specified, the command displays the details of volume status that matches specified last transfer duration.

[-last-transfer-done {true|false}] - Is the last transfer done

If this parameter is specified, the command displays the details of volume status that matches specified last transfer done flag status.

[-break-done {true|false}] - Is the break done

If this parameter is specified, the command displays the details of volume status that matches specified break-done flag status.

[-errors <text>] - Errors in volume operation if any

If this parameter is specified, the command displays the details of volume status that matches specified errors.

[-last-transfer-queue-time <MM/DD/YYYY HH:MM:SS>] - Time of the last transfer

If this parameter is specified, the command displays the details of volume status that matches specified last transfer queue time.

[-transfer-completed {true|false}] - Is the transfer completed

If this parameter is specified, the command displays the details of volume status that matches specified transfer completed flag status.

[-cutover-transfer-count <integer>] - Number of transfers within cutover threshold

If this parameter is specified, the command displays the details of volume status that matches specified cutover transfer count.

[-force {true|false}] - Volume force cutover flag

If this parameter is specified, the command displays the details of volume status that matches specified volume force cutover flag.

Examples

```
cluster1::> vserver migrate show-volume -vserver test
```

vserver migrate show

Display status of migrating Vservers

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

Description

This command displays information about the migrating vserver.

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.

| [-migrate-status-details]

If this parameter is specified, the command displays the following information about Vserver migrate operation.

- Vserver
- Migrate status
- Status details

| [-instance] }

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

[-vserver <vserver name>] - Vserver Name

Name of the Vserver which is migrating.

[-vserver-uuid <UUID>] - Vserver UUID

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver UUID.

[-transaction-id <integer>] - Transaction Id

If this parameter is specified, the command displays Vserver migrate information that matches the specified transaction-id. A transaction-id is a 64 bit integer which identifies each Vserver migrate operation uniquely

[-destination-cluster <Cluster name>] - Destination Cluster Name

If this parameter is specified, the command displays Vserver migrate information that matches the specified destination cluster.

[-source-cluster <Cluster name>] - Source Cluster Name

If this parameter is specified, the command displays Vserver migrate information that matches the specified source cluster.

[-migrate-status {precheck-started|transferring|ready-for-cutover|cutover-triggered|cutover-started|cutover-complete|migrate-paused|migrate-complete|migrate-complete-with-warnings|migrate-failed|post-cutover-cleanup|cleanup-failed>manual-cleanup|destination-cleaned-up|migrate-pausing|cleanup-pausing}] - Vserver migrate status

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate status.

[-start-time <MM/DD/YYYY HH:MM:SS>] - Migrate start time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate start time.

[-completion-time <MM/DD/YYYY HH:MM:SS>] - Migrate operation finish time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate completion time.

[-last-pause-time <MM/DD/YYYY HH:MM:SS>] - Last migrate pause time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate last paused time.

[-last-resume-time <MM/DD/YYYY HH:MM:SS>] - Last migrate resume time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate last resume time.

[-last-rollback-time <MM/DD/YYYY HH:MM:SS>] - Last migrate rollback time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate last rollback time.

[-cutover-trigger-time <MM/DD/YYYY HH:MM:SS>] - Cutover trigger time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate cutover trigger time.

[-cutover-start-time <MM/DD/YYYY HH:MM:SS>] - Cutover start time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate cutover start time.

[-cutover-complete-time <MM/DD/YYYY HH:MM:SS>] - Cutover complete time

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate cutover completion time.

[-rollback-count <integer>] - Rollback Count

If this parameter is specified, the command displays Vserver migrate information that matches the specified rollback count.

[-status-details <text>,...] - Errors and Warnings During Migrate

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate status details.

[-cutover-window <integer>] - cutover duration(seconds)

If this parameter is specified, the command displays Vserver migrate information that matches the specified

Vserver migrate cutover window.

[-ipSPACE <IPspace>] - Destination cluster IPspace Name for vserver

If this parameter is specified, the command displays Vserver migrate information that matches the specified ipspace.

[-force {true|false}] - Force cutover until completion

If force is set to "true", the command will only display Vserver migrate operation information about Vservers where the value of force is set to "true". If set to "false", the command will only display Vserver migrate operation information where force is set to "false".

[-aggr-list <aggregate name>, ...] - Aggregate list for creating the volumes

If this parameter is specified, the command displays Vserver migrate information that matches the specified aggregate list that are assigned for Vserver to use.

[-migrate-vserver-type {migrate-source|migrate-destination}] - Identify if the Vserver is migrate source or destination

If this parameter is specified, the command displays Vserver migrate information that matches the specified Vserver migrate type.

[-is-past-point-of-no-return {true|false}] - Indicate point of no return for migrate

If this parameter is specified, the command displays Vserver migrate information that matches the specified past point of no return flag.

[-current-migrate-operation {none|start|resume|pause|cleanup|cutover}] - Current Migrate operation

If this parameter is specified, the command displays Vserver migrate information that matches the specified current Vserver migrate operation.

[-last-migrate-operation {none|start|resume|pause|cleanup|cutover}] - Last Migrate operation

If this parameter is specified, the command displays Vserver migrate information that matches the specified last Vserver migrate operation.

[-local-vserver-id <integer>] - Vserver ID

If this parameter is specified, the command displays Vserver migrate information that matches the specified local vserver id.

[-group-id <integer>] - Group ID

If this parameter is specified, the command displays Vserver migrate information that matches the specified group id.

[-partner-vserver-id <integer>] - Partner Vserver ID

If this parameter is specified, the command displays Vserver migrate information that matches the specified partner vserver id.

[-partner-group-id <integer>] - Partner group ID

If this parameter is specified, the command displays Vserver migrate information that matches the specified partner group id.

[`-auto-cutover {true|false}`] - Automatic cutover

If this parameter is specified, the command displays Vserver migrate information that matches the specified auto cutover flag.

[`-skip-performance-check {true|false}`] - Skip checking iops requirement of volume on destination aggregates

If this parameter is specified, the command displays Vserver migrate information that matches the specified skip performance flag.

[`-cutover-ready-max-transfer-time-limit <integer>`] - Transfer duration for marking ready for cutover (seconds)

If this parameter is specified, the command displays Vserver migrate information that matches the specified time required to mark cutover ready.

Examples

```
cluster1::> vserver migrate show -vserver test
```

vserver migrate start

Start the Vserver migrate operation

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

Description

This command starts the migration of a Vserver from one cluster to another. This has to be run on the destination cluster, i.e. the cluster where the Vserver is intended to migrate. The source cluster from where the Vserver is to be migrated is specified in the command.

Parameters

`-vserver <vserver name>` - Vserver Name

Name of the Vserver which needs to be migrated.

`-source-cluster <Cluster name>` - Source Cluster Name

Name of the source cluster.

[`-check-only {true|false}`] - Check if migrate can be done

Runs the prechecks and tells if the Vserver migrate operation can be started or not.

[`-ipspace <IPspace>`] - Destination cluster IPspace Name for vserver

Name of the IPspace in the destination cluster.

[`-aggr-list <aggregate name>,...`] - Aggregate list

Provide the list of aggregates where the volumes will be created in the destination cluster.

[`-force {true|false}`] - Force flag for continuing with disruptive migrate

The force parameter is set to true when the user wants Vserver migrate operation to continue to completion even though the 30 sec cutover duration is not met. When this parameter is used, it indicates that the admin

wants to perform a disruptive migrate operation.

[-auto-cutover {true|false}] - Automatically cutover when ready

This parameter is to specify if the Vserver migrate operation should cutover automatically when ready.

[-skip-performance-check {true|false}] - Skip checking iops requirement of volume on destination aggregates

This parameter is set to true when the user wants the Vserver migrate operation to skip checking IOPS requirement of volume on destination aggregates.

Examples

```
cluster1::> vserver migrate start -vserver test -source-cluster cluster-22 -ipspace ips1 -check-only true -aggr-list aggr1,aggr2 -force false -auto-cutover false -skip-performance-check false
```

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