vserver migrate commands

Command reference

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vserver migrate commands

vserver migrate abort

Abort a Vserver migrate operation

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

Description

This command aborts a Vserver migrate operation. It is normally run on the destination cluster of the migrate operation. If the destination cluster cannot be accessed, the abort command can be run on the source cluster to cleanup the migrate operation on the source cluster. The migrate operation must be in migrate-paused, or in a failed migrate status, to be aborted.

Parameters

`-vserver <vserver name>` - Vserver Name

Name of the Vserver to be aborted.

Examples

cluster1::> vserver migrate abort -vserver test

vserver migrate cutover

Perform Cutover of the migrate operation

Availability: This command is available to *cluster* administrators at the *admin* 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 *admin* 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 migration operation will be paused.

Examples

cluster1::> vserver migrate pause -vserver test

vserver migrate resume

Resume a migrate operation

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

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

This parameter specifies if the Vserver migrate operation should cutover automatically when ready. If this parameter is not specified, migrate resume will use the value from the previous migrate start or resume operation.

`[-auto-source-cleanup {true|false}]` - Automatically cleanup the source vserver after cutover

This parameter specifies if the Vserver migrate operation should cleanup the source Vserver automatically. Setting the parameter requires advanced privilege. If this parameter is not specified, migrate resume will use the value from the previous migrate start or resume operation.

`[-throttle <throttleType>]` - Throttle for Migrate Transfers(Kbs)

This parameter specifies the throttle value to limit the network bandwidth used for the migrate transfers. It sets the maximum rate (in Kbytes/sec) at which data can be transferred during the operation. The throttle value is applied individually to each volume of the migrating Vserver. To fully use the network bandwidth available, set the throttle value to unlimited or 0. If this parameter is not specified, migrate will use the throttle value from the previous migrate start or resume operation. The minimum throttle value is four Kbytes/sec, so if you specify a throttle value between 1 and 4, it will be treated as if you specified 4.

Examples

cluster1::> vserver migrate resume -vserver test -auto-cutover false cluster1::> vserver migrate resume -vserver test -auto-cutover false -throttle 12500

vserver migrate show-volume-fix-details

List volumes and commands to run post migrate

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

Description

This command displays the list of volumes whose properties failed to get transferred to the destination Vserver of the Vserver migrate post cutover.

For each of these volumes, this command also displays the volume modify command which you must run to transfer the failed volume properties manually.

Parameters

[-fields <fieldname>,…]

This specifies the fields that must be displayed.

| [-instance] (privilege: advanced) }

If this parameter is specified, the command displays the volume details and properties that failed to get transferred during the migrate.

[-vserver-uuid <UUID>] - Vserver-UUID (privilege: advanced)

The UUID of the Vserver which is migrating.

[-volume <volume name>] - Volume Name (privilege: advanced)

If this parameter is specified, the command displays the volume details and properties that match the specified volume.

[-command <text>] - Volume Modify Command (privilege: advanced)

If this parameter is specified, the command displays the volume details and properties that match the specified `Volume Modify` command.

Examples

```
clusterB::> vserver migrate show-volume-fix-details -vserver-uuid
7a08a236-f6b3-11eb-98a5-005056a78af4
                Vserver  Volume       Command
                -------- -----------
------------------------------------------------------
                7a08a236-f6b3-11eb-98a5-005056a78af4
                         vs4_root
                volume modify -vserver vsnew -volume vs4_root -min
-autosize 20971520B -autosize-grow-threshold-percent 85% -autosize-shrink
-threshold-percent 50% -autosize-mode off -files 566 -space-slo none
-space-guarantee volume -fractional-reserve 100% -min-readahead false
-atime-update true -snapdir-access true -percent-snapshot-space 5% -space
-mgmt-try-first volume_grow -read-realloc space-optimized -is-space
-enforcement-logical false -activity-tracking-state off -snap-autodelete
-enabled false -snap-autodelete-commitment try -snap-autodelete-defer
-delete user_created -snap-autodelete-delete-order oldest_first -snap
-autodelete-prefix "(not specified)" -snap-autodelete-target-free-space
20% -snap-autodelete-trigger volume -snap-autodelete-destroy-list none
```

Related Links

- volume modify

vserver migrate show-volume

Display status of volumes in a migrating Vservers

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

Description

This command displays status of all the volumes in a migrating Vservers. It must be run on the destination cluster of the Vserver migrate.

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.

[-vserver <vserver 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 the specified volume.

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

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

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

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

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

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

[-node <nodename>] - Node

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

[-volume-state {online|restricted|offline|force-online|force-offline|mixed}] - State of the Volume

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

[-transfer-status <mirror status>] - Status of Transfer

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

[-healthy {true|false}] - Healthy

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

[-errors <text>,…] - Errors in Volume Operation

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

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 *admin* 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.

[-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|cleanup|cleanup-failed|manual-cleanup|destination-cleaned-up|migrate-pausing|cleanup-pausing|post-cutover|post-cutover-failed|ready-for-source-cleanup|setup-configuration|setup-configuration-failed|migrate-pause-failed|migrate-aborting|migrate-abort-failed|migrate-aborted}] - 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.

[-end-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 end 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-restart-time <MM/DD/YYYY HH:MM:SS>] - Last migrate restart time

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

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

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

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

[-restart-count <integer>] - Restart 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.

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

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

[-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.

[-owning-node <nodename>] - Name of node on which migrate is orchestrated

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

[-stream-uuid <UUID>] - Stream Uuid

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

[-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.

[-last-failed-migrate-status {precheck-started|transferring|ready-for-cutover|cutover-triggered|cutover-started|cutover-complete|migrate-paused|migrate-complete|migrate-complete-with-warnings|migrate-failed|cleanup|cleanup-failed|manual-cleanup|destination-cleaned-up|migrate-pausing|cleanup-pausing|post-cutover|post-cutover-failed|ready-for-source-cleanup|setup-configuration|setup-configuration-failed|migrate-pause-failed|migrate-aborting|migrate-abort-failed|migrate-aborted}] - Migrate status when the migrate aborted or failed

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

[-current-migrate-operation {none|start|resume|pause|cleanup|cutover|abort}] - 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|abort}] - 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 Vserver ID of a partner node.

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

If this parameter is specified, the command displays Vserver migrate information that matches the specified group ID of a partner node.

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

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

[-migration-uuid <UUID>] - Migration UUID

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

[-migration-failures <SmdbError>,…] - List of migration failures

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

[-client-outage-window <integer>] - Window duration during cutover when clients are not served

If this parameter is specified, the command displays Vserver migrate information that matches the specified client outage window.

[-auto-source-cleanup {true|false}] - Automatic source cleanup (privilege: advanced)

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

[-throttle <throttleType>] - Throttle for Migrate Transfers(Kbs)

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

[-post-ponr-retry-count <integer>] - Number of times migrate retried operations post-PONR

If this parameter is specified, the command displays Vserver migrate information that matches the specified post point of no return retry count.

[-last-post-ponr-retry-time <MM/DD/YYYY HH:MM:SS>] - Last post-PONR retry time

If this parameter is specified, the command displays Vserver migrate information that matches the specified last post point of no return retry time.

Examples

cluster1::> vserver migrate show -vserver test

vserver migrate source-cleanup

Perform vserver cleanup on the source cluster

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

Description

This command cleans up the migrate source Vserver.

Parameters

-vserver <vserver name> - Vserver Name (privilege: advanced)

Name of the Vserver to be deleted on the source cluster.

[-force {true|false}] - Force option to override veto checks (privilege: advanced)

This parameter is used to forcibly delete the Vserver.

Examples

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

vserver migrate start

Start the Vserver migrate operation

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

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

This parameter specifies if the Vserver migrate operation should cutover automatically when ready. The default setting is true.

[-auto-source-cleanup {true|false}] - Automatically cleanup the source vserver after cutover

This parameter is to specify if the Vserver migrate operation should cleanup the source Vserver automatically. Setting the parameter requires diagnostic privilege. The default setting is true.

[-throttle <throttleType>] - Throttle for Migrate Transfers(Kbs)

This parameter specifies the throttle value to limit the network bandwidth used for the migrate transfers. It sets the maximum rate (in Kbytes/sec) at which data can be transferred during the operation. The throttle value is applied individually to each volume of the migrating Vserver. To fully use the network bandwidth available, set the throttle value to unlimited or 0. The default setting is unlimited. The minimum throttle value is four Kbytes/sec, so if you specify a throttle value between 1 and 4, it will be treated as if you specified 4.

Examples

cluster1::> vserver migrate start -vserver test -source-cluster cluster-22 -ipspace ips1 -check-only true -aggr-list aggr1,aggr2 -auto-cutover false -throttle 12500

vserver migrate precheck show

Display Vserver migrate precheck results

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

Description

add text

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.

[-vserver <text>] - Vserver

Selects migrate precheck results for Vservers that match the specified value.

[-id <integer>] - Error ID

Selects migrate precheck results with identifiers that match the specified value.

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

Selects migrate precheck results with start times that match the specified value.

[-end-time <MM/DD/YYYY HH:MM:SS>] - End Time

Selects migrate precheck results with end times that match the specified value.

[-result <text>] - Overall Result

Selects migrate precheck results with an overall result that matches the specified value.

[-target-personality {unknown|unified|asa|asar2|afx}] - Target Personality

Selects migrate precheck results with target personalities that match the specified value.

[-error <text>] - Error

Selects migrate precheck results with errors that match the specified value.

Examples

add text

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