

snapmirror mediator commands

ONTAP 9.13.1 commands

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Table of Contents

sna	pmirror mediator commands.	. 1
S	napmirror mediator add	. 1
S	napmirror mediator remove	. 2
S	napmirror mediator show	. 2
S	napmirror mediator primary-bias show	. 3
S	napmirror mediator primary-bias history show	. 5
S	napmirror mediator tba-history show	. 6

snapmirror mediator commands

snapmirror mediator add

Create mediator config entry

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

Description

The snapmirror mediator add command configures the connection between a pair of clusters and an ONTAP Mediator. It is mandatory to initialize the ONTAP Mediator on one of the cluster peers before the SnapMirror Business Continuity (SMBC) relation with policy type *automated-failover* performs a planned or an unplanned failover. You can initialize the ONTAP Mediator from either cluster. When you issue the ONTAP Mediator add command on one cluster, the ONTAP Mediator is automatically added on the other cluster.

Parameters

-mediator-address <IP Address> - Mediator lp Address

Specifies the IP address of the mediator.

-peer-cluster <text> - Peer cluster

Peer cluster with AutomatedFailOver SnapMirror relationships.

-username <text> - Username

User account at the mediator.

[-port-number <integer>] - Port Number

This optional parameter specifies the mediator service port number to communicate with the mediator. The port number must be in the range 1025 to 65535 inclusive. The default port number is 31784.

Examples

```
The following example configures the connection between a mediator and a pair of clusters.
```

```
clusA::> snapmirror mediator add -mediator-address 10.234.102.227 -peer
-cluster clusB -username admin
Notice: Enter the mediator password.
Enter the password:
        Enter the password again:
Info: [Job: 114] 'mediator add' job queued
```

snapmirror mediator remove

Remove mediator config entry

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

Description

The snapmirror mediator remove command deletes a mediator configuration entry.

Parameters

-mediator-address <IP Address > - Mediator lp Address Specifies the IP address of the mediator.

-peer-cluster <text> - Peer cluster

Peer cluster with AutomatedFailOver SnapMirror relationships.

Examples

The following example removes a mediator configuration entry.

```
clusA::> snapmirror mediator remove -mediator-address 10.140.102.227 -peer
-cluster clusB
Info: [Job 36] 'mediator remove' job queued
```

snapmirror mediator show

Show mediator information

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

Description

The snapmirror mediator show command shows the status of the ONTAP Mediator configuration.

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.

[-mediator-address <IP Address>] - Mediator IP Address

Ip address of the mediator.

[-peer-cluster <text>] - Peer Cluster Name

Peer cluster name.

[-connection-status {connected|unreachable|suspended|unusable|misconfigured|removing|notconfigured|unknown|adding}] - Connection Status

Connection status of the cluster with the mediator.

```
[-quorum-status {unknown|true|false}] - Mediator Quorum Status
```

Shows whether the SnapMirror Consistency Group relationships are synchronized with mediator.

```
[-health-fetch-timeout <integer>] - Peer Health Fetch Timeout
```

Timeout value (in seconds) for peer-cluster health fetch via mediator.

[-connection-timeout <integer>] - Connection Timeout

Timeout value (in seconds) for mediator connection.

Examples

The following example shows the list of mediator configurations.

```
clusA::*> snapmirror mediator show
     Mediator Address Peer Cluster
                                  Connection Status Quorum Status
     _____ ____
     10.140.102.227 clusB
                               unreachable
                                               true
clusA::*> snapmirror mediator show -instance
Mediator Uuid: 416fbdee-c982-11e9-9034-005056a7124c
     Mediator IP Address: 10.140.102.227
     Peer Cluster: clusB
     Peer Cluster Uuid: 771d9b13-c973-11e9-928e-005056a7a882
     Connection Status: unreachable
     Ouorum Status: true
     Health Fetch Timeout: 5
     Connection Timeout: 5
```

snapmirror mediator primary-bias show

Show Primary Bias Status

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

Description

The snapmirror mediator primary-bias show command shows the status of primary-bias. This command is applicable when mediator status is shown as unreachable/misconfigured from both primary and secondary cluster.

This will also show the state corresponding to each CG endpoint residing on the given cluster. Slave CG endpoints will show the state of "Failover disabled". Master CG endpoints will show the state of Primary-bias activation.

The status of primary-bias can be one of the following. + primary-bias-activated - represents the state that allows master endpoints to assume the I/O serving authority + primary-bias-not-activated - represents the state that mediator is reachable from primary and secondary clusters and IO serving authority set to default + mediator-engaged-for-failover - represents the state that mediator is engaged and Failover on slave endpoints is possible + mediator-disengaged-for-failover - represents the setting of the intermediate state preventing Failover on slave endpoints of a CG +

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.

[-cg-path

```
{<[vserver:][volume]>|<[[cluster:]//vserver/]volume>|<hostip:/lun/name>|<hostip:/
share/share-name>|<[vserver:]/cg/[app-cgname]>}] - Cg Path
```

CG path.

[-cg-role {destination|source}] - Role

Indicates if CG is primary or secondary on local cluster.

```
[-mb-state {Primary bias activated. Mediator Disengaged|Primary bias not-
activated. Mediator engaged|Mediator disengaged for failover|Mediator engaged for
failover}]-MB state
```

Primary bias State.

Examples

The following example shows the status of primary bias

snapmirror mediator primary-bias history show

Show Primary Bias History

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

Description

```
The snapmirror mediator primary-bias history show command shows the history of Primary bias events.
```

The setting/clearing of the Primary Bias states (including the intermediate state) will be logged as event history per CG endpoint in the "snapmirror mediator primary bias history" command. The "mediatorengaged/disengaged-for-failover" actions will represent the setting/clearing of the intermediate state preventing Failover on slave endpoints of a CG. The "primary-bias-activated/not-activated" will represent the state that allows master endpoints to assume the I/O serving authority.

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.

[-cg-path

```
{<[vserver:][volume]>|<[[cluster:]//vserver/]volume>|<hostip:/lun/name>|<hostip:/
share/share-name>|<[vserver:]/cg/[app-cgname]>}] - Cg Path
```

CG path.

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

Time of event

```
[-action {Primary bias activated. Mediator Disengaged |Primary bias not-activated.
Mediator engaged |Mediator disengaged for failover |Mediator engaged for failover}]
- Event
```

Primary bias event.

Examples

The following example shows the history output

snapmirror mediator tba-history show

Show Mediator Agent Event History

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

Description

The snapmirror mediator tba-history show command shows the history of the ONTAP Mediator Agent events.

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.

[-cg-rel-uuid <UUID>] - Cg Relationship Uuid

Cg Relationship Uuid.

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

Mediator Agent Task Start Time.

[-token-num <integer>] - Token Number

Token Number.

```
[-cg-path
{<[vserver:][volume]>|<[[cluster:]//vserver/]volume>|<hostip:/lun/name>|<hostip:/
share/share-name>|<[vserver:]/cg/[app-cgname]>}] - Cg Path
```

Cg Path.

```
[-aux-generation-num <integer>] - Auxillary Generation Number
```

Auxillary Generation Number.

```
[-cg-rel-task <text>] - TBA Task Type
```

Mediator Agent Task Type.

```
[-cg-rel-state {invalid-state|waiting|task-processing|task-complete}] - Cg
Management State
```

Cg Management State.

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

Mediator Agent Task End Time.

```
[-cg-rel-action {invalid|none|continue|stop|failover-incapable|auto-
failover|success|failed|mismatch|retry|success-pending|stop-pending|continue-
pending|failover-incapable-pending|try-failover-incapable-ic|try-failover-
incapable-med|try-auto-failover}] - Cg Management Action
```

Cg Management Action.

```
[-errCode <integer>] - Error Code for Task Failure
```

Error Code for Task Failure.

Examples

The following example shows the list of mediator configurations.

```
C1 sti89-vsim-ucs525q cluster::> snapmirror mediator tba-history show
       (snapmirror mediator tba-history show)
     Path
                 Token API Event Start Time State End Time
Action
        _____
     vs0:/cg/cg1 src 5 4 Process Set Resync Context 4/28/2021
11:09:52 task-complete 4/28/2021 11:09:52 continue
     vs0:/cg/cg1 src 6 1 Process Master InSync 4/28/2021 11:10:08
task-complete 4/28/2021 11:10:08 success
     2 entries were displayed.
     C1 sti89-vsim-ucs525q cluster::> snapmirror mediator tba-history
show -instance
Cg Relationship Uuid: ad49a4f1-a833-11eb-9846-005056a7c906
      Mediator Agent Task Start Time: 4/28/2021 11:09:52
            Token Number: 5
            Cg Path: vs0:/cg/cg1 src
   Auxillary Generation Number: 4
      Mediator Agent Task Type: Process Set Resync Context
     Cg Management State: task-complete
  Mediator Agent Task End Time: 4/28/2021 11:09:52
    Cg Management Action: continue
   Error Code for Task Failure: 0
Cq Relationship Uuid: ad49a4f1-a833-11eb-9846-005056a7c906
      Mediator Agent Task Start Time: 4/28/2021 11:10:08
            Token Number: 6
            Cg Path: vs0:/cg/cg1 src
   Auxillary Generation Number: 1
      Mediator Agent Task Type: Process Master InSync
     Cg Management State: task-complete
  Mediator Agent Task End Time: 4/28/2021 11:10:08
    Cg Management Action: success
   Error Code for Task Failure: 0
```

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