snapmirror mediator commands

Command reference

NetApp
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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 active sync 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 `snapmirror mediator add` command on one cluster, the ONTAP Mediator is automatically added on the other cluster.

Parameters

`-peer-cluster <text>` - Peer cluster

Peer cluster with AutomatedFailOver SnapMirror relationships.

`[-type {on-prem|cloud}]` - Mediator Type

Specifies the type of the mediator. The value *`on-prem`* represents ONTAP Mediator. The value *`cloud`* represents ONTAP cloud mediator. The default value is *`on-prem`*.

`{ -mediator-address <IP Address>` - Mediator Ip Address

Specifies the IP address of the mediator. This is only applicable for ONTAP Mediator.

`-username <text>` - Username

User account at the mediator. This is only applicable for ONTAP 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. This is only applicable to ONTAP Mediator.

`| [-bluexp-org-id <text>]` - BlueXP Organization ID

BlueXP Organization ID of the user. This is only applicable for ONTAP cloud mediator.

`[-service-account-client-id <text>]` - Service Account Client ID }

Specifies BlueXP Service Account Client ID. This is only applicable for ONTAP cloud mediator.

`[-use-http-proxy-local {true|false}]` - Use HTTP Proxy on Local Cluster

Specifies if the local cluster should use http-proxy server while making REST API calls to mediator. This option is only supported for ONTAP cloud mediator.

`[-use-http-proxy-remote {true|false}]` - Use HTTP Proxy on Remote Cluster

Specifies if the remote cluster should use http-proxy server while making REST API calls to mediator. This option is only supported for ONTAP cloud mediator.

Examples

The following example configures the ONTAP Mediator.

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

The following example configures the ONTAP cloud mediator.

```
clusA::> snapmirror mediator add -peer-cluster clusB -type cloud -bluexp
-org-id 2e32bd61-1cf2-4b70-9c5f-xxxxxxxxxxxx -service-account-client-id
i7SOpgeAEaxa3tqteaFN39J5xxxxxxxx -use-http-proxy-local true -use-http
-proxy-remote true
Enter the Service Account Client Secret:
Info: [Job: 52] 'mediator add' job queued
```

snapmirror mediator modify

Modify mediator configuration

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

Description

The `snapmirror mediator modify` command is used to modify a mediator configuration entry.

Parameters

`-peer-cluster <text>` - Peer cluster

Peer cluster for which the mediator is configured.

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

Specifies the IP address of the mediator. This is only applicable for ONTAP Mediator.

`[-type {on-prem|cloud}]` - Mediator Type

Specifies the type of the mediator. The value *`on-prem`* represents ONTAP Mediator. The value *`cloud`* represents ONTAP cloud mediator.

`[-use-http-proxy-local {true|false}]` - Use HTTP Proxy on Local Cluster

Specifies if the local cluster should use http-proxy server while making REST API calls to mediator. This option is only supported for ONTAP cloud mediator.

[-use-http-proxy-remote {true|false}] - Use HTTP Proxy on Remote Cluster

Specifies if the remote cluster should use http-proxy server while making REST API calls to mediator. This option is only supported for ONTAP cloud mediator.

Examples

```
The following example modifies a mediator configuration entry.
```

```
clusA::> snapmirror mediator modify -peer-cluster clusB -type cloud -use
-http-proxy-local true -use-http-proxy-remote true -strict-cert-validation
true
```

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

-peer-cluster <text> - Peer cluster

Peer cluster with AutomatedFailOver SnapMirror relationships.

[-type {on-prem|cloud}] - Mediator Type

Specifies the type of the mediator. The value *on-prem* represents ONTAP Mediator. The value *cloud* represents ONTAP cloud mediator. The default value is *on-prem* .

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

Specifies the IP address of the mediator. This is only applicable for ONTAP Mediator.

[-f, -force <true>] - Force (privilege: advanced)

The force option deletes the local configuration even if the peer cluster or mediator is not reachable.

Examples

The following example removes a mediator configuration entry for ONTAP Mediator.

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

The following example removes a mediator configuration entry for ONTAP cloud mediator.

```
clusA::> snapmirror mediator remove -peer-cluster clusB -type cloud
Info: [Job 53] '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|not-configured|unknown|adding|down-high-latency}] - 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.

[-type {on-prem|cloud}] - Mediator Type

Specifies the type of the mediator. The value *`on-prem`* represents ONTAP Mediator. The value *`cloud`* represents ONTAP cloud mediator.

[-critical-api-timeout <integer>] - Critical API Timeout

Timeout value (in seconds) for the critical APIs invoked in IO-impacting workflows of a SnapMirror active sync relationship, such as planned failover, automatic unplanned failover and OutOfSync handling. The default value is 5 sec for ONTAP Mediator and 7 sec for ONTAP cloud mediator.

[-non-critical-api-timeout <integer>] - Non-critical API Timeout

Timeout value (in seconds) for the non-critical APIs invoked in non-IO-impacting workflows, such as mediator configuration, mediator removal, creation and deletion of a SnapMirror active sync relationship. The default value is 5 sec for ONTAP Mediator and 34 sec for ONTAP cloud mediator.

[-longpoll-overhead-timeout <integer>] - Long-poll Overhead Timeout

Timeout value (in seconds) for long-poll operation to account for processing delays.

[-use-http-proxy {true|false}] - Use HTTP Proxy on Cluster

Whether this cluster uses an http proxy server while making REST API calls to mediator or not.

[-ping-network-rtt <integer>] - Network RTT Ms

Network RTT (in milliseconds) between ONTAP and the BlueXP cloud server as observed during the ping-test.

[-latency-status-list <text>,…] - Node-wise API Latency Status List

List of API call latency status being reported by the nodes of the cluster. This option is only supported for ONTAP cloud mediator.

Examples

The following example shows an ONTAP Mediator configuration.

```
clusA::> snapmirror mediator show
        Mediator Address Peer Cluster     Connection Status Quorum Status
Type
        ---------------- ---------------- ----------------- -------------
-------
        10.140.102.227   clusB            connected         true
on-prem
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: connected
                        Quorum Status: true
                                 Type: on-prem
                 Health Fetch Timeout: 5
                   Connection Timeout: 5
                Mediator Read Timeout: 5
               Mediator Write Timeout: 5
           Long-poll Overhead Timeout: 2
                Use HTTP Proxy Server: false
        Strict Certificate Validation: false
               BlueXP Server Ping URL: -
                Ping Network RTT (ms): -
         Node-wise API Latency Status: -
```

The following example shows an ONTAP cloud mediator configuration.

```
clusA::> snapmirror mediator show
        Mediator Address Peer Cluster     Connection Status Quorum Status
Type
        ---------------- ---------------- ----------------- -------------
-------
        0.0.0.0          clusB            connected         true
cloud
clusA::> snapmirror mediator show -instance
Mediator Uuid: e314083d-053f-11f0-badf-005056ae1773
                  Mediator IP Address: 0.0.0.0
                        Peer Cluster: clusB
                   Peer Cluster Uuid: 9a21429f-0487-11f0-ac98-
005056ae112c
                     Connection Status: true
                         Quorum Status: true
                                  Type: cloud
                 Health Fetch Timeout: 5
                   Connection Timeout: 5
                Mediator Read Timeout: 6
               Mediator Write Timeout: 6
           Long-poll Overhead Timeout: 2
                Use HTTP Proxy Server: true
        Strict Certificate Validation: true
               BlueXP Server Ping URL: api.bluexp.netapp.com
                Ping Network RTT (ms): 100
         Node-wise API Latency Status: NodeA: normal, NodeB: normal
```

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

```
cluster1::> snapmirror mediator primary-bias show
    CG Path        Role          Status
    -------------- ------------- ----------------------------
    vs1:/cg/dcg    destination   mediator-engaged-for-failover
```

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 "mediator-

engaged/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

```
C1_sti7-vsim-ucs569m_cluster::*> snapmirror mediator primary-bias history
show -cg-path vs0:/cg/scg
    CG Path        Time                Action
    -------------- ----------------- ------------
    vs0:/cg/scg    7/25/2022 10:33:28
            primary-bias-activated
    vs0:/cg/scg    7/25/2022 22:42:33
            primary-bias-not-activated
    2 entries were displayed.
C1_sti7-vsim-ucs569m_cluster::*>
```

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

Auxiliary 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
Cg 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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