



metrocluster check commands

ONTAP 9.3 commands

NetApp
February 11, 2024

Table of Contents

- metrocluster check commands. 1
 - metrocluster check disable-periodic-check 1
 - metrocluster check enable-periodic-check 1
 - metrocluster check run 1
 - metrocluster check show 3
 - metrocluster check aggregate show 6
 - metrocluster check cluster show 9
 - metrocluster check config-replication show-aggregate-eligibility 13
 - metrocluster check config-replication show-capture-status 14
 - metrocluster check config-replication show 15
 - metrocluster check lif repair-placement 16
 - metrocluster check lif show 17
 - metrocluster check node show. 19

metrocluster check commands

metrocluster check disable-periodic-check

Disable Periodic Check

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

Description

The `metrocluster check disable-periodic-check` command disables the periodic checking of the MetroCluster configuration.

After this command is run, the MetroCluster Check job will be prevented from periodically checking the configuration for errors.

Parameters

Examples

```
clusA::> metrocluster check disable-periodic-check
```

metrocluster check enable-periodic-check

Enable Periodic Check

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

Description

The `metrocluster check enable-periodic-check` command enables the periodic checking of the MetroCluster configuration.

After this command is run, the MetroCluster Check job will be able to run in the background and periodically check the configuration for errors.

Parameters

Examples

```
clusA::> metrocluster check enable-periodic-check
```

metrocluster check run

Check the MetroCluster setup

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

Description

The `metrocluster check run` command performs checks on the MetroCluster configuration and reports configuration errors if any.

To run this command, at least one DR group needs to be configured. The command checks the following parts of the configuration:

Node Configuration:

- `node-reachable`: This check verifies that the node is reachable.
- `metrocluster-ready`: This check verifies that the node is ready for MetroCluster configuration.
- `local-ha-partner`: This check verifies that the HA partner node is in the same cluster.
- `ha-mirroring-on`: This check verifies that HA mirroring for the node is configured.
- `symmetric-ha-relationship`: This check verifies that the relationship between the node and its HA partner is symmetric.
- `remote-dr-partner`: This check verifies that the DR partner node is in the remote cluster.
- `dr-mirroring-on`: This check verifies that DR mirroring for the node is configured.
- `symmetric-dr-relationship`: This check verifies that the relationship between the node and its DR partner is symmetric.
- `remote-dr-auxiliary-partner`: This check verifies that the DR auxiliary partner node is in the remote cluster.
- `symmetric-dr-auxiliary-relationship`: This check verifies that the relationship between the node and its DR auxiliary partner is symmetric.
- `storage-failover-enabled`: This check verifies that storage failover is enabled.
- `has-intercluster-lif`: This check verifies that the node has an intercluster LIF.
- `node-object-limit`: This check verifies that the node object limit option for the node is turned on.

Aggregate Configuration:

- `mirroring-status`: This check verifies that the aggregate is mirrored.
- `disk-pool-allocation`: This check verifies that the disks belonging to this aggregate have been correctly allocated to the right pools.

At the end of the check the command displays a summary of the results. This summary output can be viewed again by running `metrocluster check show`. If any of the rows in this output show any warnings more details can be viewed by running the `metrocluster check show` command for that component.

Parameters

`[-skip-dr-simulation {true|false}]` - Skip the DR Readiness Checks (privilege: advanced)

If this optional parameter is set to true, the switchover and switchback simulations are not run.

Examples

The following example shows the execution of the command when there are no warnings:

```
clusA::> metrocluster check run
```

```
Last Checked On: 4/9/2014 20:11:46
```

Component	Result
nodes	ok
clusters	ok
lifs	ok
config-replication	ok
aggregates	ok

5 entries were displayed.

Command completed. Use the "metrocluster check show -instance" command or sub-commands in "metrocluster check" directory for detailed results.

The following example shows the execution of the command when there are some warnings:

```
clusA::> metrocluster check run
```

```
Last Checked On: 4/9/2014 20:11:46
```

Component	Result
nodes	warning
clusters	ok
lifs	ok
config-replication	ok
aggregates	ok

5 entries were displayed.

Command completed. Use the "metrocluster check show -instance" command or sub-commands in "metrocluster check" directory for detailed results.

Related Links

- [metrocluster check show](#)

metrocluster check show

Show the results of the last instance of MetroCluster check

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

Description

The `metrocluster check show` command displays the results of [metrocluster check run](#) command.

This command displays the high-level verification results for each of the components. If there any errors for a component, running the show command for that component (for example [metrocluster check node show](#) or

`metrocluster check aggregate show`) will display more information about the warning.



Please note that this command does not run the checks but only displays the results of checks. To look at the latest results, run the `metrocluster check run` command and then run this command.

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.

[-timestamp <MM/DD/YYYY HH:MM:SS>] - Time of Check

This is the time at which the `metrocluster check run` command was last run in this cluster and these results were produced. If this parameter is specified, only rows with this timestamp will be displayed.

[-component <MetroCluster Check Components>] - Name of the Component

This is the name of the component. If this parameter is specified, only rows with this component will be displayed.

[-result {ok|warning|not-run|not-applicable}] - Result of the Check

This is the result of the check for the component. If this parameter is specified, only rows with this result will be displayed.

[-additional-info <text>] - Additional Information/Recovery Steps

This is the additional info for the verification for this component. This field will have detailed information about the warning and recovery steps. If this parameter is specified, only rows with this additional info will be displayed.

Examples

The following example shows the execution of the command when there are no warnings:

```
clusA::> metrocluster check show
cked On: 4/9/2014 20:11:46
t          Result
-----
nodes      ok
clusters   ok
lifs       ok
config-replication ok
aggregates ok
s were displayed.
```

The following example shows the execution of the command when there are some warnings:

```
clusA:> metrocluster check show
cked On: 4/9/2014 20:11:46
t          Result
-----
nodes          warning
clusters       ok
lifs           ok
config-replication ok
aggregates     ok
s were displayed.
```

The following example shows the execution of the command with `-instance` option:

```
clusA:> metrocluster check show -instance
Time of Check: 4/9/2014 20:12:36
          Name of the Component: nodes
          Result of the Check: warning
    Additional Information/Recovery Steps:
Time of Check: 4/9/2014 20:12:36
          Name of the Component: cluster
          Result of the Check: ok
    Additional Information/Recovery Steps:
Time of Check: 4/9/2014 20:12:36
          Name of the Component: lifs
          Result of the Check: ok
    Additional Information/Recovery Steps:
Time of Check: 4/9/2014 20:12:36
          Name of the Component: config-replication
          Result of the Check: ok
    Additional Information/Recovery Steps:
Time of Check: 4/9/2014 20:12:36
          Name of the Component: aggregates
          Result of the Check: warning
    Additional Information/Recovery Steps:
    5 entries were displayed.
```

Related Links

- [metrocluster check run](#)
- [metrocluster check node show](#)
- [metrocluster check aggregate show](#)

metrocluster check aggregate show

Show results of MetroCluster check for aggregates

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

Description

The `metrocluster check aggregate show` command displays the results of aggregate checks performed by the `metrocluster check run` command.

The command verifies the following aspects of the configuration of all aggregates in MetroCluster:

- **mirroring-status:** This check verifies that the aggregate is mirrored.
- **disk-pool-allocation:** This check verifies that the disks belonging to this aggregate have been correctly allocated to the right pools.

Additional information about the warnings (if any) and recovery steps can be viewed by running the command with the `-instance` option.

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 <Node name>] - Node Name

This is the name of the node for which the check was run. If this parameter is specified, only rows with this node will be displayed.

[-aggregate <aggregate name>] - Name of the Aggregate

This is the name of the aggregate for which the check was run. If this parameter is specified, only rows with this aggregate will be displayed.

[-check <MetroCluster Aggregate Check>] - Type of Check

This is the type of the check performed. If this parameter is specified, only rows with this check will be displayed.

[-cluster <Cluster name>] - Name of Cluster

This is the name of the cluster the node belongs to. If this parameter is specified, only rows with this cluster will be displayed.

[-result {ok|warning|not-run|not-applicable}] - Result of the Check

This is the result of the check. If this parameter is specified, only rows with this result will be displayed.

[-additional-info <text>,...] - Additional Information/Recovery Steps

This is additional information about the check. This field has more information and recovery steps for the

warning. If this parameter is specified, only rows with this additional info will be displayed.

Examples

The following example shows the execution of the command in a MetroCluster configuration with two nodes per cluster:

```
clusA::> metrocluster check aggregate show
```

```
Last Checked On: 4/9/2014 20:11:46
```

Node	Aggregate	Check	Result
clusA-01	a1_required_data_aggr	mirroring-status	ok
		disk-pool-allocation	ok
	aggr0_a1	mirroring-status	ok
		disk-pool-allocation	ok
clusA-02	a2_required_data_aggr	mirroring-status	ok
		disk-pool-allocation	ok
	aggr0_a2	mirroring-status	ok
		disk-pool-allocation	ok
clusB-01	b1_required_data_aggr	mirroring-status	ok
		disk-pool-allocation	ok
	aggr0_b1	mirroring-status	ok
		disk-pool-allocation	ok
clusB-02	aggr0_b2	mirroring-status	ok
		disk-pool-allocation	ok
	b2_required_data_aggr	mirroring-status	ok
		disk-pool-allocation	ok

```
16 entries were displayed.
```

The following example shows the execution of the command with -instance option:

```
clusA::> metrocluster check aggregate show -instance
```

```
Node Name: clusA-01
```

```
Name of the Aggregate: a1_required_data_aggr_1
```

```
Type of Check: mirroring-status
```

```

        Name of Cluster: clusA
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusA-01
        Name of the Aggregate: al_required_data_aggr_1
        Type of Check: disk-pool-allocation
        Name of Cluster: clusA
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusA-01
        Name of the Aggregate: al_required_data_aggr_2
        Type of Check: mirroring-status
        Name of Cluster: clusA
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusA-01
        Name of the Aggregate: al_required_data_aggr_2
        Type of Check: disk-pool-allocation
        Name of Cluster: clusA
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusA-01
        Name of the Aggregate: aggr0_a1
        Type of Check: mirroring-status
        Name of Cluster: clusA
        Result of the Check: warning
Additional Information/Recovery Steps: Root aggregate "aggr0_a1" is un-
mirrored. Root aggregates should be mirrored in a MetroCluster
configuration.
Node Name: clusA-01
        Name of the Aggregate: aggr0_a1
        Type of Check: disk-pool-allocation
        Name of Cluster: clusA
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusB-01
        Name of the Aggregate: aggr0_b1
        Type of Check: mirroring-status
        Name of Cluster: clusB
        Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusB-01
        Name of the Aggregate: aggr0_b1
        Type of Check: disk-pool-allocation
        Name of Cluster: clusB
        Result of the Check: ok

```

```

Additional Information/Recovery Steps: -
Node Name: clusB-01
    Name of the Aggregate: b1_required_data_aggr_1
    Type of Check: mirroring-status
    Name of Cluster: clusB
    Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusB-01
    Name of the Aggregate: b1_required_data_aggr_1
    Type of Check: disk-pool-allocation
    Name of Cluster: clusB
    Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusB-01
    Name of the Aggregate: b1_required_data_aggr_2
    Type of Check: mirroring-status
    Name of Cluster: clusB
    Result of the Check: ok
Additional Information/Recovery Steps: -
Node Name: clusB-01
    Name of the Aggregate: b1_required_data_aggr_2
    Type of Check: disk-pool-allocation
    Name of Cluster: clusB
    Result of the Check: ok
Additional Information/Recovery Steps: -
12 entries were displayed.

```

Related Links

- [metrocluster check run](#)

metrocluster check cluster show

Show results of MetroCluster check for the cluster components

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

Description

The `metrocluster check cluster show` command displays the results of cluster checks performed by the [metrocluster check run](#) command.

The command displays the results of the following cluster configuration checks:

- `negotiated-switchover-ready`: This check verifies that the cluster is ready for a negotiated switchover operation.
- `switchback-ready`: This check verifies that the cluster is ready for a switchback operation.

- **job-schedules:** This check verifies that the job schedules between the local and remote clusters are consistent.
- **licenses:** This check verifies that the licenses between the local and remote clusters are consistent.
- **periodic-check-enabled:** This check verifies that the periodic MetroCluster Check Job is enabled.
- **onboard-key-management:** This check verifies that the Onboard Key Management hierarchies are synched.

Additional information about the warnings (if any) and recovery steps can be viewed by running the command with the `-instance` parameter.

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.

[-check {negotiated-switchover-ready|switchback-ready|job-schedules|licenses|periodic-check-enabled|onboard-key-management}] - Type of Check

This is the type of the check performed. If this parameter is specified, only rows with this check will be displayed.

[-cluster <Cluster name>] - Cluster Name

This is the name of the cluster the check results apply to. If this parameter is specified, only rows matching the specified cluster will be displayed.

[-result {ok|warning|not-run|not-applicable}] - Result of the Check

This is the result of the check. If this parameter is specified, only rows with this result will be displayed.

[-additional-info <text>] - Additional Information/Recovery Steps

This is additional information about the check. This field has more information and recovery steps for the warning. If this parameter is specified, only rows with this additional info will be displayed.

Examples

The following example shows the execution of the command in a MetroCluster configuration:

```
clusA::> metrocluster check cluster show
```

```
Last Checked On: 11/29/2018 17:15:00
```

Cluster	Check	Result
-----	-----	-----
clusA	negotiated-switchover-ready	not-applicable
	switchback-ready	not-applicable
	job-schedules	ok
	licenses	ok
	periodic-check-enabled	ok
	onboard-key-management	ok
clusB	negotiated-switchover-ready	not-applicable
	switchback-ready	not-applicable
	job-schedules	ok
	licenses	ok
	periodic-check-enabled	ok
	onboard-key-management	ok

12 entries were displayed.

The following example shows the execution of the command with the `-instance` parameter:

```
clusA::> metrocluster check cluster show -instance
```

```
Type of Check: negotiated-switchover-ready
```

```
Cluster Name: clusA
```

```
Result of the Check: not-applicable
```

```
Additional Information/Recovery Steps: Disaster recovery readiness checks  
are not performed as part of periodic metrocluster check. To run these  
checks, use the "metrocluster check run" command.
```

```
Type of Check: switchback-ready
```

```
Cluster Name: clusA
```

```
Result of the Check: not-applicable
```

```
Additional Information/Recovery Steps: Disaster recovery readiness checks  
are not performed as part of periodic metrocluster check. To run these  
checks, use the "metrocluster check run" command.
```

```
Type of Check: job-schedules
```

```
Cluster Name: clusA
```

```
Result of the Check: ok
```

```
Additional Information/Recovery Steps:
```

```
Type of Check: licenses
```

```
Cluster Name: clusA
```

```
Result of the Check: ok
```

Additional Information/Recovery Steps:

Type of Check: periodic-check-enabled

Cluster Name: clusA

Result of the Check: ok

Additional Information/Recovery Steps:

Type of Check: onboard-key-management

Cluster Name: clusA

Result of the Check: ok

Additional Information/Recovery Steps:

Type of Check: negotiated-switchover-ready

Cluster Name: clusB

Result of the Check: not-applicable

Additional Information/Recovery Steps: Disaster recovery readiness checks are not performed as part of periodic metrocluster check. To run these checks, use the "metrocluster check run" command.

Type of Check: switchback-ready

Cluster Name: clusB

Result of the Check: not-applicable

Additional Information/Recovery Steps: Disaster recovery readiness checks are not performed as part of periodic metrocluster check. To run these checks, use the "metrocluster check run" command.

Type of Check: job-schedules

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Type of Check: licenses

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Type of Check: periodic-check-enabled

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Type of Check: onboard-key-management

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

12 entries were displayed.

Related Links

- [metrocluster check run](#)

metrocluster check config-replication show-aggregate-eligibility

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

Description

The `metrocluster check config-replication show-aggregate-eligibility` command displays the MetroCluster configuration replication aggregate eligibility.

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.

[-aggregate <aggregate name>] - Aggregate

This is the aggregate name. If this parameter is specified, only rows with this aggregate will be displayed.

[-hosted-configuration-replication-volumes <volume name>,...] - Currently Hosted Configuration Replication Volumes

This is the list of the configuration replication volumes hosted on this aggregate. If this parameter is specified, only rows with these configuration replication volumes will be displayed.

[-is-eligible-to-host-additional-volumes {true|false}] - Eligibility to Host Another Configuration Replication Volume

This is the eligibility of the aggregate to host additional configuration replication volumes. If this parameter is specified, only rows with this eligibility will be displayed.

[-comment <text>] - Comment for Eligibility Status

This is a comment regarding the eligibility of the aggregate to host configuration replication volumes. If this parameter is specified, only rows with this comment will be displayed.

Examples

The following example shows the execution of the command in a MetroCluster configuration with thirteen aggregates in the cluster:

```
clusA::metrocluster check config-replication> show-aggregate-eligibility
```

Aggregate	Hosted Config Replication Vols	Eligible to Host Addl Vols
Comments		
-----	-----	-----
a0	-	false
Root Aggregate		
a1	MDV_CRS_1bc7134a5ddf11e3b63f123478563412_A	true -
a2	MDV_CRS_1bc7134a5ddf11e3b63f123478563412_B	true -
a3	-	false
Unable to determine available space of aggregate		
a4	-	false
Non-Local Aggregate		
a5	-	false
Non-Home Aggregate		
a6	-	false
Unable to determine mirror configuration		
a7	-	false
Mirror configuration does not match requirement		
a8	-	false
Disallowed Aggregate		
a9	-	false
Insufficient Space - 10GB required		
a10	-	false
Aggregate Offline		
a11	-	false
Inconsistent Aggregate		
a12	-	false
Aggregate Full		

13 entries were displayed.

metrocluster check config-replication show-capture-status

Display MetroCluster capture status information

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

Description

The `metrocluster check config-replication show-capture-status` command indicates whether or not a configuration change that would prevent a negotiated switchover is currently being captured for replication.

Examples

The following example shows the execution of the command in a MetroCluster configuration when capture is not in progress:

```
cluster1::*> metrocluster check config-replication show-capture-status  
Is Capture in Progress: false
```

metrocluster check config-replication show

Display MetroCluster config-replication status information

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

Description

The `metrocluster check config-replication show` command displays the results of MetroCluster configuration replication.

The command verifies the following aspects of MetroCluster configuration replication :

- **Enabled:** Verifies that MetroCluster configuration replication is enabled on the cluster.
- **Running:** Verifies that MetroCluster configuration replication is running on the cluster.
- **Remote Heartbeat:** Verifies that the MetroCluster configuration replication heartbeat with the remote cluster is healthy.
- **Last Heartbeat Sent:** Prints the timestamp of the last MetroCluster configuration replication heartbeat sent to the remote cluster.
- **Last Heartbeat Received:** Prints the timestamp of the last MetroCluster configuration replication heartbeat received from the remote cluster.
- **Storage Status:** Verifies that MetroCluster configuration replication storage is healthy.
- **Storage In Use:** Prints the location of MetroCluster configuration replication storage.
- **Storage Remarks:** Prints the underlying root cause for non healthy MetroCluster configuration storage.
- **Vserver Streams:** Verifies that MetroCluster configuration replication Vserver streams are healthy.
- **Cluster Streams:** Verifies that MetroCluster configuration replication Cluster streams are healthy.

Additional information about the warnings (if any) and recovery steps can be viewed by running the command with the `-instance` option.

Parameters

[`-instance`]

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

Examples

The following example shows the output of `metrocluster check config-replication show`:

```
clusA::metrocluster check config-replication> show
      Enabled: true
      Running: true
      Remote Heartbeat: ok
      Last Heartbeat Sent: 12/12/2013 14:24:59
      Last Heartbeat Received: 12/12/2013 14:25:00
      Storage Status: ok
      Storage In Use: Cluster-wide Volume:
MDV_CRS_1bc7134a5ddf11e3b63f123478563412_A
      Storage Remarks: -
      Vserver Streams: ok
      Cluster Streams: ok
```

metrocluster check lif repair-placement

Repair LIF placement for the sync-source Vserver LIFs in the destination cluster

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

Description

The `metrocluster check lif repair-placement` command reruns LIF placement for those LIFs displayed by the [metrocluster check lif show](#) command. This command is expected to be run after the admin manually rectifies the LIF placement failures displayed in the [metrocluster check lif show](#) command output. The command is successful if the LIF placement rerun does not encounter any LIF placement failure. This is to be confirmed by subsequent running of the [metrocluster check lif show](#) .

Parameters

-vserver <Vserver Name> - sync-source Vserver Name

This is the name of the sync source Vserver that has LIF placement failures as reported by the [metrocluster check lif show](#) command. This input ensures that the command is run on the specified Vserver.

[-lif <lif-name>] - Logical Interface Name

This is the Logical Interface name that belongs to the sync source Vserver that has a LIF placement failure in the destination cluster as reported by the [metrocluster check lif show](#) command. This input ensures that the command is run on the specified LIF only.

Examples

The following example shows the execution of the command with a sync source Vserver and a LIF specified:

```
clusA::> metrocluster check lif repair-placement -vserver vs1.example.com
-lif fcplif1
Command completed. Run the "metrocluster check lif show" command for
results.

clusA::> metrocluster check lif repair-placement -vserver vs1.example.com
-lif iscsilif1
Command completed. Run the "metrocluster check lif show" command for
results.
```

The following example shows the execution of the command with only a sync-source Vserver specified:

```
clusA::> metrocluster check lif repair-placement -vserver vs1.example.com

Command completed. Run the "metrocluster check lif show" command for
results.

clusA::>
```

Related Links

- [metrocluster check lif show](#)

metrocluster check lif show

Show results of MetroCluster check results for the data LIFs

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

Description

The `metrocluster check lif show` command displays the LIF placement failures in the MetroCluster configuration.

The command verifies the following aspects of the LIF placements of all the data LIFs in Metrocluster:

- `lif-placed-on-dr-node`: This check verifies that the LIF is placed on DR partner node.
- `port-selection`: This check verifies that the LIF is placed on correct port.

The LIF placement failures are mostly fabric/network connectivity issues that require manual intervention. Once the connectivity issues are resolved manually, the admin is expected to run [metrocluster check lif repair-placement](#) command to resolve the LIF placement issues for the sync source Vserver.

Additional information about the warnings (if any) and recovery steps can be viewed by running the command with the `-instance` option.

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.

[-cluster <Cluster name>] - Name of the Cluster

This is the name of the cluster the LIF belongs to. If this parameter is specified, only rows with this cluster will be displayed.

[-vserver <text>] - Name of the Vserver

This is the name of the Vserver in the MetroCluster configuration

[-lif <lif-name>] - Name of the Lif

This is the name of the LIF.

[-check <MetroCluster LIF placement Check>] - Description

This is the type of the check performed. If this parameter is specified, only rows with this check will be displayed.

[-result {ok|warning|not-run|not-applicable}] - Result of the Check

This is the result of the check performed. If this parameter is specified, only rows with this result will be displayed.

[-additional-info <text>] - Additional Information/Recovery Steps

This is additional information about the check. This field has more information and recovery steps for the warning. If this parameter is specified, only rows with this additional info will be displayed.

Examples

The following example shows the execution of the command in a MetroCluster configuration with two nodes per cluster:

```
clusA::>metrocluster check lif show
```

Cluster	Vserver	LIF	Check	Result
ClusA	vs1	a_data1	lif-placed-on-dr-node	ok
			port-selection	ok
		a_data1_inet6	lif-placed-on-dr-node	ok
			port-selection	ok
ClusA	vs2-mc	b_data1	lif-placed-on-dr-node	ok
			port-selection	
warning		b_data1_inet6	lif-placed-on-dr-node	ok
			port-selection	
warning				
ClusB	vs1-mc	a_data1	lif-placed-on-dr-node	
warning			port-selection	ok
		a_data1_inet6	lif-placed-on-dr-node	
warning			port-selection	ok
			lif-placed-on-dr-node	ok
ClusB	vs2	b_data1	lif-placed-on-dr-node	ok
			port-selection	ok
		b_data1_inet6	lif-placed-on-dr-node	ok
			port-selection	ok

16 entries were displayed.

Related Links

- [metrocluster check lif repair-placement](#)

metrocluster check node show

Show results of MetroCluster check for nodes

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

Description

The `metrocluster check node show` command displays the results of node checks performed by the [metrocluster check run](#) command.

The command displays the results of the following node configuration checks:

- **node-reachable:** This check verifies that the node is reachable.
- **metrocluster-ready:** This check verifies that the node is ready for MetroCluster configuration.
- **local-ha-partner:** This check verifies that the HA partner node is in the same cluster.
- **ha-mirroring-on:** This check verifies that HA mirroring for the node is configured.
- **ha-mirroring-op-state:** This check verifies that the HA mirroring operation is online.
- **symmetric-ha-relationship:** This check verifies that the relationship between the node and its HA partner is symmetric.
- **remote-dr-partner:** This check verifies that the DR partner node is in the remote cluster.
- **dr-mirroring-on:** This check verifies that DR mirroring for the node is configured.
- **dr-mirroring-op-state:** This check verifies that the DR mirroring operation is online.
- **symmetric-dr-relationship:** This check verifies that the relationship between the node and its DR partner is symmetric.
- **remote-dr-auxiliary-partner:** This check verifies that the DR auxiliary partner node is in the remote cluster.
- **symmetric-dr-auxiliary-relationship:** This check verifies that the relationship between the node and its DR auxiliary partner is symmetric.
- **storage-failover-enabled:** This check verifies that storage failover is enabled.
- **has-intercluster-lif:** This check verifies that the node has an intercluster LIF.
- **node-object-limit:** This check verifies that the node object limit option for the node is turned on.
- **automatic-uso:** This check verifies that the automatic USO option for the node is enabled.

Additional information about the warnings (if any) and recovery steps can be viewed by running the command with the `-instance` parameter.

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 <Node name>] - Node Name

This is the name of the node for which the check was run. If this parameter is specified, only rows with this node will be displayed.

[-check <MetroCluster Node Check>] - Type of Check

This is the type of the check performed. If this parameter is specified, only rows with this check will be displayed.

[-cluster <Cluster name>] - Cluster Name

This is the name of the cluster the node belongs to. If this parameter is specified, only rows with this cluster will be displayed.

[`-result {ok|warning|not-run|not-applicable}`] - Result of the Check

This is the result of the check. If this parameter is specified, only rows with this result will be displayed.

[`-additional-info <text>`] - Additional Information/Recovery Steps

This is additional information about the check. This field has more information and recovery steps for the warning. If this parameter is specified, only rows with this additional info will be displayed.

Examples

The following example shows the execution of the command in a MetroCluster configuration with two nodes per cluster:

```
clusA::> metrocluster check node show
```

```
Last Checked On: 9/12/2016 13:47:00
```

Node	Check	Result

clusA-01	node-reachable	ok
	metrocluster-ready	ok
	local-ha-partner	ok
	ha-mirroring-on	warning
	ha-mirroring-op-state	ok
	symmetric-ha-relationship	warning
	remote-dr-partner	ok
	dr-mirroring-on	ok
	dr-mirroring-op-state	ok
	symmetric-dr-relationship	ok
	remote-dr-auxiliary-partner	ok
	symmetric-dr-auxiliary-relationship	warning
	storage-failover-enabled	ok
	has-intercluster-lif	ok
	node-object-limit	ok
	automatic-uso	ok
clusA-02	node-reachable	ok
	metrocluster-ready	ok
	local-ha-partner	ok
	ha-mirroring-on	warning
	ha-mirroring-op-state	ok
	symmetric-ha-relationship	warning
	remote-dr-partner	ok
	dr-mirroring-on	ok
	dr-mirroring-op-state	ok
	symmetric-dr-relationship	ok
	remote-dr-auxiliary-partner	ok

clusB-01	symmetric-dr-auxiliary-relationship	warning
	storage-failover-enabled	ok
	has-intercluster-lif	ok
	node-object-limit	ok
	automatic-uso	ok
clusB-02	node-reachable	ok
	metrocluster-ready	ok
	local-ha-partner	ok
	ha-mirroring-on	warning
	ha-mirroring-op-state	ok
	symmetric-ha-relationship	warning
	remote-dr-partner	ok
	dr-mirroring-on	ok
	dr-mirroring-op-state	ok
	symmetric-dr-relationship	ok
	remote-dr-auxiliary-partner	ok
	symmetric-dr-auxiliary-relationship	warning
	storage-failover-enabled	ok
	has-intercluster-lif	ok
	node-object-limit	ok
	automatic-uso	ok
clusB-02	node-reachable	ok
	metrocluster-ready	ok
	local-ha-partner	ok
	ha-mirroring-on	warning
	ha-mirroring-op-state	ok
	symmetric-ha-relationship	warning
	remote-dr-partner	ok
	dr-mirroring-on	ok
	dr-mirroring-op-state	ok
	symmetric-dr-relationship	ok
	remote-dr-auxiliary-partner	ok
	symmetric-dr-auxiliary-relationship	warning
	storage-failover-enabled	ok
	has-intercluster-lif	ok
	node-object-limit	ok
	automatic-uso	ok

64 entries were displayed.

The following example shows the execution of the command with the `-instance` parameter:

```
clusA::> metrocluster check node show -instance
Node Name: clusA-01
```



```

                Type of Check: node-reachable
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: metrocluster-ready
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: local-ha-partner
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: ha-mirroring-on
                Cluster Name: clusA
                Result of the Check: warning
Additional Information/Recovery Steps: Node's HA mirroring is not active.
Enable it on using "storage failover" commands.
Node Name: clusA-01

                Type of Check: ha-mirroring-op-state
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: symmetric-ha-relationship
                Cluster Name: clusA
                Result of the Check: warning
Additional Information/Recovery Steps: Partner not found. Check if node
"clusA-01's HA partner" is configured in MetroCluster.
Node Name: clusA-01

                Type of Check: remote-dr-partner
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: dr-mirroring-on
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01

                Type of Check: dr-mirroring-op-state
                Cluster Name: clusA
                Result of the Check: ok
Additional Information/Recovery Steps:

```

```

Node Name: clusA-01
    Type of Check: symmetric-dr-relationship
    Cluster Name: clusA
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01
    Type of Check: remote-dr-auxiliary-partner
    Cluster Name: clusA
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01
    Type of Check: symmetric-dr-auxiliary-relationship
    Cluster Name: clusA
    Result of the Check: warning
Additional Information/Recovery Steps: Partner not found. Check if node
"clusA-01's DR auxiliary partner" is configured in MetroCluster.
Node Name: clusA-01
    Type of Check: storage-failover-enabled
    Cluster Name: clusA
    Result of the Check: warning
Additional Information/Recovery Steps: Node's storage failover is
disabled. Enable using "storage failover" commands.
Node Name: clusA-01
    Type of Check: has-intercluster-lif
    Cluster Name: clusA
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusA-01
    Type of Check: node-object-limit
    Cluster Name: clusA
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusB-01
    Type of Check: node-reachable
    Cluster Name: clusB
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusB-01
    Type of Check: metrocluster-ready
    Cluster Name: clusB
    Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusB-01
    Type of Check: local-ha-partner
    Cluster Name: clusB
    Result of the Check: ok

```

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: ha-mirroring-on

Cluster Name: clusB

Result of the Check: warning

Additional Information/Recovery Steps: Node's HA mirroring is not active.
Enable it on using "storage failover" commands.

Node Name: clusB-01

Type of Check: ha-mirroring-op-state

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: symmetric-ha-relationship

Cluster Name: clusB

Result of the Check: warning

Additional Information/Recovery Steps: Partner not found. Check if node
"clusB-01's HA partner" is configured in MetroCluster.

Node Name: clusB-01

Type of Check: remote-dr-partner

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: dr-mirroring-on

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: dr-mirroring-op-state

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: symmetric-dr-relationship

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: remote-dr-auxiliary-partner

Cluster Name: clusB

Result of the Check: ok

Additional Information/Recovery Steps:

Node Name: clusB-01

Type of Check: symmetric-dr-auxiliary-relationship

Cluster Name: clusB

```

        Result of the Check: warning
Additional Information/Recovery Steps: Partner not found. Check if node
"clusB-01's DR auxiliary partner" is configured in MetroCluster.
Node Name: clusB-01
        Type of Check: storage-failover-enabled
        Cluster Name: clusB
        Result of the Check: warning
Additional Information/Recovery Steps: Node's storage failover is
disabled. Enable using "storage failover" commands.
Node Name: clusB-01
        Type of Check: has-intercluster-lif
        Cluster Name: clusB
        Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusB-01
        Type of Check: node-object-limit
        Cluster Name: clusB
        Result of the Check: ok
Additional Information/Recovery Steps:
Node Name: clusB-01
        Type of Check: automatic-uso
        Cluster Name: clusB
        Result of the Check: ok
Additional Information/Recovery Steps:
32 entries were displayed.

```

Related Links

- [metrocluster check run](#)

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.