



cluster kernel-service commands

ONTAP 9.6 commands

NetApp
August 29, 2024

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cluster kernel-service commands

cluster kernel-service show

Display cluster service state in the kernel

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

Description

```
The `cluster kernel-service show` command displays the following information from the master node for each node in the cluster:
```

- Node name
- The quorum status of that node
- The availability status of that node
- The operational status of that node

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.

[-master-node {<nodename>|local}] - Node (privilege: advanced)

The node in the cluster where the information be being reported from. If this parameter is not specified, the command displays information about all nodes in the cluster.

[-cluster-node <text>] - Cluster Node (privilege: advanced)

The node in the cluster that the information listed is regarding. If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-status-quorum {out-of-quorum|in-quorum}] - Quorum Status (privilege: advanced)

The quorum status of the node specified by `-cluster-node` . If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-status-avail {false|true|unknown}] - Availability Status (privilege: advanced)

The availability status of the node specified by `-cluster-node` . If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-status-oper {unknown|operational|not-operational}] - Operational Status (privilege: advanced)

The operational status of the node specified by `-cluster-node` . If this parameter is specified, the

command displays information only about the nodes with the specified state value.

Examples

The following example displays information about all nodes in the cluster:

```
cluster1::*> cluster kernel-service show
Master          Cluster          Quorum          Availability
Operational
Node            Node              Status           Status           Status
-----
-----
cluster1-01     cluster1-01       in-quorum        true
operational
                cluster1-02       in-quorum        true
operational
2 entries were displayed.

cluster1::*> cluster kernel-service show -instance
Master Node: cluster1-01
      Cluster Node: cluster1-01
      Quorum Status: in-quorum
Availability Status: true
Operational Status: operational
Master Node: cluster1-01
      Cluster Node: cluster1-02
      Quorum Status: in-quorum
Availability Status: true
Operational Status: operational
2 entries were displayed.
```

cluster kernel-service config modify

Modify cluster service state in the kernel

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

Description

The `cluster kernel-service config modify` used to manage the cluster kernel-service subsystem for a node.

Parameters

-node {<nodename>|local} - Node (privilege: advanced)

The node in the cluster where the configuration is being modified.

[-kcs-enable-takeover {true|false}] - Initiated Takeover Enabled (privilege: advanced)

This indicates whether the kernel service subsystem for this node will initiate a takeover of any node determined to be *out of quorum* if allowed by the HA subsystem.

Examples

```
cluster1::*> cluster kernel-service config modify -node cluster1-01 -kcs
-enable-core false
```

cluster kernel-service config show

Display cluster service state in the kernel

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

Description

The `cluster kernel-service config show` is used to display the configuration of the cluster kernel service subsystem for one or more nodes.

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 {<nodename>|local}] - Node (privilege: advanced)

The node in the cluster where the information be being reported from. If this parameter is not specified, the command displays information about all nodes in the cluster.

[-clam-master-id <integer>] - CLAM Master Node ID (privilege: advanced)

The node ID of the master node for the cluster. If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-kcs-enable-takeover {true|false}] - Initiated Takeover Enabled (privilege: advanced)

Indicates if the distributed kernel service subsystem will initiate a takeover of any node determined to be *out of quorum* if the HA subsystem allows it. If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-kcs-enabled {true|false}] - KCS Enabled (privilege: advanced)

The state of the kernel service subsystem on the specified node. If this parameter is specified, the command displays information only about the nodes with the specified state value.

[-quorum-epoch <integer>] - Quorum Epoch (privilege: advanced)

The number of quorum changes for this node.

Examples

```
cluster1::*> cluster kernel-service config show
Node                               Failover Core   Master          FSM
          Enabled Enabled Enabled Node          State
-----
cluster1-01      true    false  false  cluster1-01  Master:
Waiting for heartbeat timeout
cluster1-02      true    false  false  cluster1-01  Non-Master:
Waiting for backoff timeout
2 entries were displayed.

cluster1::*> cluster kernel-service config show -instance
Node: cluster1-01
          Master Node: cluster1-01
          Master Node ID: 1000
          Enabled: true
          Initiated Takeover Enabled: false
Initiated Core on Takeover Enabled: false
          Current FSM State: Master: Waiting for heartbeat timeout
          Running Version: 1
          Quorum Epoch: 115
          Voting Status: false
          CHAAQ Enabled: true

Node: cluster1-02
          Master Node: cluster1-01
          Master Node ID: 1000
          Enabled: true
          Initiated Takeover Enabled: false
Initiated Core on Takeover Enabled: false
          Current FSM State: Non-Master: Waiting for backoff
timeout
          Running Version: 1
          Quorum Epoch: 115
          Voting Status: false
          CHAAQ Enabled: true

2 entries were displayed.
```

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