



cluster agent commands

ONTAP commands

NetApp

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cluster agent commands

cluster agent connection create

Create Cloud Agent connection

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

Description

Create a websocket connection to an external manager that will be used to monitor this cluster. The external manager will have access to REST APIs and CCMA counters based upon the privilege of the user creating the connection.

Parameters

-name <text> - Name (privilege: advanced)

Specify connection name.

-destination <text> - Destination URL (privilege: advanced)

Specify destination URL. For secure WebSocket, this should be amqpws://<host[:port]>.

[-use-proxy {true|false}] - Use Proxy (privilege: advanced)

Establish this connection through the HTTP proxy server associated with this connection's IPspace.

[-subscribe-address <text>] - Subscribe Address (privilege: advanced)

AMQP address to which ONTAP will subscribe. Defaults to "ontap.agent.manager".

[-publish-address <text>] - Publish Address (privilege: advanced)

AMQP address to which ONTAP will publish. Defaults to "ontap.agent.cluster".

[-certificate-uuid <UUID>] - Authentication Certificate UUID (privilege: advanced)

Specify UUID of an existing certificate to use for authentication to the destination.

[-csr-url <text>] - Authentication CSR URL (privilege: advanced)

URL to send certificate signing request (CSR) that will be used for authenticating with the destination.

[-csr-token <text>] - Authentication CSR Token (privilege: advanced)

Token for authenticating with CSR URL. Not audited.

[-manager-token <text>] - Manager Token (privilege: advanced)

Specify token supplied by manager application to correlate the connection setup back to the workflow that initiated it.

[-ipspace <IPspace>] - IPspace for Connection (privilege: advanced)

The IPspace to use for the connection.

`[-idle-timeout <integer>]` - Idle Timeout (in seconds) (privilege: advanced)

AMQP idle timeout. Defaults to 0. If set, the local peer will disconnect if it does not receive AMQP frames within the timeout.

`[-address-family {unknown|ipv4|ipv6}]` - Address Family (privilege: advanced)

Specify address family.

`[-auto-delete-error-minutes {<integer>|-}]` - Time to Auto-delete when disconnected (in minutes) (privilege: advanced)

Specify time to live in minutes for cloud agent connection in error state. Connection will be deleted if it stays in error state beyond this time.

Examples

```
cluster-1::> cluster agent connection create -name cloud_agent
-destination amqpws://manager.example.com
```

cluster agent connection delete

Delete Cloud Agent connection

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

Description

Delete the connection to an external manager.

Parameters

`-name <text>` - Name (privilege: advanced)

Specify connection name.

Examples

```
cluster-1::> cluster agent connection delete -name cloud_agent
```

cluster agent connection modify

Modify Cloud Agent connection

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

Description

Modify agent connection properties.

Parameters

-name <text> - Name (privilege: advanced)

Specify connection name.

[-destination <text>] - Destination URL (privilege: advanced)

Specify destination URL. For secure WebSocket, this should be amqpwss://<host[:port]>.

[-use-proxy {true|false}] - Use Proxy (privilege: advanced)

Establish this connection through the HTTP proxy server associated with this connection's IPspace.

[-subscribe-address <text>] - Subscribe Address (privilege: advanced)

AMQP address to which ONTAP will subscribe. Defaults to "ontap.agent.manager".

[-publish-address <text>] - Publish Address (privilege: advanced)

AMQP address to which ONTAP will publish. Defaults to "ontap.agent.cluster".

[-certificate-uuid <UUID>] - Authentication Certificate UUID (privilege: advanced)

Specify UUID of an existing certificate to use for authentication to the destination.

[-csr-token <text>] - Authentication CSR Token (privilege: advanced)

Token for authenticating with CSR URL. Not audited.

[-idle-timeout <integer>] - Idle Timeout (in seconds) (privilege: advanced)

AMQP idle timeout. Defaults to 0. If set, the local peer will disconnect if it does not receive AMQP frames within the timeout.

[-address-family {unknown|ipv4|ipv6}] - Address Family (privilege: advanced)

Specify address family.

[-auto-delete-error-minutes {<integer>|-}] - Time to Auto-delete when disconnected (in minutes) (privilege: advanced)

Specify time to live in minutes for cloud agent connection in error state. Connection will be deleted if it stays in error state beyond this time.

Examples

```
cluster-1::> cluster agent connection modify -name cloud_agent
               -destination amqpwss://new-manager.example.com
```

cluster agent connection show

Display Cloud Agent connections

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

Description

This command displays the connections that have been established to help external managers manage the cluster.

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 ] (privilege: advanced) }`

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

`[-name <text>] - Name (privilege: advanced)`

Selects the connections that match the supplied name.

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

Selects the connections that match the supplied UUID.

`[-destination <text>] - Destination URL (privilege: advanced)`

Selects the connections that match the supplied destination.

`[-state {connecting|connected|error|disabled|partial|static}] - State (privilege: advanced)`

Selects the connections that match the supplied state. The state can have one of the following values:

- `connecting` - The agent is in the process of establishing the connection.
- `connected` - The connection is up and active.
- `error` - The connection is down due to a problem. See `error-message` and `error-time` for details.
- `disabled` - The connection has been administratively disabled.
- `partial` - The connection has been partially established and is not ready to deliver messages.
- `static` - The agent is of static instance type and does not require an external connection.

`[-use-proxy {true|false}] - Use Proxy (privilege: advanced)`

Establish this connection through an HTTP proxy server associated with this connection's IPspace

`[-subscribe-address <text>] - Subscribe Address (privilege: advanced)`

AMQP address to which ONTAP will subscribe. Defaults to `"ontap.agent.manager"`.

`[-publish-address <text>] - Publish Address (privilege: advanced)`

AMQP address to which ONTAP will publish. Defaults to `"ontap.agent.cluster"`.

`[-certificate-uuid <UUID>] - Authentication Certificate UUID (privilege: advanced)`

Selects the connections that match the supplied certificate UUID.

`[-csr-url <text>] - Authentication CSR URL (privilege: advanced)`

URL to send certificate signing request (CSR) that will be used for authenticating with the destination.

[-manager-token <text>] - Manager Token (privilege: advanced)

Selects the connections that match the supplied manager token.

[-ipspace <IPspace>] - IPspace for Connection (privilege: advanced)

The IPspace to use for the connection

[-error-code <integer>] - Last Error Code (privilege: advanced)

Selects the connections that match the supplied error code.

[-error-message <text>] - Last Error Message (privilege: advanced)

Selects the connections that match the supplied error message.

[-error-time <MM/DD/YYYY HH:MM:SS>] - Last Error Time (privilege: advanced)

Selects the connections that match the supplied error time.

[-node <nodename>] - Node Owning the Connection (privilege: advanced)

The node owning the connection

[-msg-recv-total <integer>] - Total Messages Received from Manager (privilege: advanced)

Total messages received from manager

[-msg-recv-manifest <integer>] - Total Manifest Messages Received from Manager (privilege: advanced)

Total manifest messages received from manager

[-msg-recv-baseline-request <integer>] - Total baseline.request Messages Received from Manager (privilege: advanced)

Total baseline.request messages received from manager

[-msg-recv-counters-request <integer>] - Total counters.request Messages Received from Manager (privilege: advanced)

Total counters.request messages received from manager

[-msg-recv-connection-status <integer>] - Total Connection Status Messages Received from Manager (privilege: advanced)

Total connection status messages received from manager

[-msg-recv-connection-modify <integer>] - Total Connection Modify Messages Received from Manager (privilege: advanced)

Total connection modify messages received from manager

[-msg-recv-agent-status <integer>] - Total agent.status.request Messages Received from Manager (privilege: advanced)

Total agent.status.request Messages received from Manager

[-msg-recv-subscription-create <integer>] - Total Subscription Create Messages Received from Manager (privilege: advanced)

Total subscription create messages received from manager

[-msg-recv-subscription-delete <integer>] - Total Subscription Delete Messages Received from Manager (privilege: advanced)

Total subscription delete messages received from manager

[-msg-recv-unknown <integer>] - Total Unknown Messages Received from Manager (privilege: advanced)

Total unknown messages received from manager

[-msg-send-total <integer>] - Total Messages Sent to Manager (privilege: advanced)

Total messages sent to manager

[-msg-send-manifest-request <integer>] - Total manifest.request Messages Sent to Manager (privilege: advanced)

Total manifest.request messages sent to manager

[-msg-send-baseline <integer>] - Total Baseline Messages Sent to Manager (privilege: advanced)

Total baseline messages sent to manager

[-msg-send-counters <integer>] - Total Counters Messages Sent to Manager (privilege: advanced)

Total counters messages sent to manager

[-msg-send-connection-status <integer>] - Total Connection Status Messages Sent to Manager (privilege: advanced)

Total connection status messages sent to manager

[-msg-send-subscription-status <integer>] - Total Subscription Status Messages Sent to Manager (privilege: advanced)

Total subscription status messages received from manager

[-msg-send-errors <integer>] - Total Error Messages Sent to Manager (privilege: advanced)

Total error messages sent to manager

[-msg-delivery-errors <integer>] - Total Errors Encountered Attempting to Send/receive (privilege: advanced)

Total errors encountered attempting to send/receive

[-msg-send-topicrelay <integer>] - Total ONTAP PubSub Topic Messages Sent to Manager (privilege: advanced)

Total ONTAP PubSub Topic messages sent to manager

[-msg-send-agent-status-details <integer>] - Total agent.status Messages Sent to Manager (privilege: advanced)

Total agent.status Messages sent to Manager

[-msg-connection-total <integer>] - Total Connection Attempts (privilege: advanced)

Total connection attempts

[-msg-connection-errors <integer>] - Total Connection Errors (privilege: advanced)

Total connection errors

[-msg-transport-errors <integer>] - Total Transport Errors (privilege: advanced)

Total transport errors

[-application <text>] - Client Application (privilege: advanced)

Selects the connections that match the supplied application.

[-application-url <text>] - Application URL (privilege: advanced)

Selects the connections that match the supplied application URL.

[-idle-timeout <integer>] - Idle Timeout (in seconds) (privilege: advanced)

AMQP idle timeout. Defaults to 0. If set, the local peer will disconnect if it does not receive AMQP frames within the timeout.

[-address-family {unknown|ipv4|ipv6}] - Address Family (privilege: advanced)

Specify address family.

[-auto-delete-error-minutes {<integer>|-}] - Time to Auto-delete when disconnected (in minutes) (privilege: advanced)

Specify time to live in minutes for cloud agent connection in error state. Connection will be deleted if it stays in error state beyond this time.

Examples

```
cluster-1::> cluster agent connection show
Name           Destination           State    Application    Use
Proxy
-----
cloudinsights  amqpws://172.31.50.251  connected Cloud Insights
false
```

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