Manage FPolicy server connections

ONTAP 9

NetApp
March 07, 2023

Table of Contents

Manage FPolicy server connections

Connect to external FPolicy servers

To enable file processing, you might need to manually connect to an external FPolicy server if the connection has previously been terminated. A connection is terminated after the server timeout is reached or due to some error. Alternatively, the administrator might manually terminate a connection.

About this task

If a fatal error occurs, the connection to the FPolicy server can be terminated. After resolving the issue that caused the fatal error, you must manually reconnect to the FPolicy server.

Steps

1. Connect to the external FPolicy server by using the `vserver fpolicy engine-connect` command.

   For more information about the command, see the man pages.

2. Verify that the external FPolicy server is connected by using the `vserver fpolicy show-engine` command.

   For more information about the command, see the man pages.

Disconnect from external FPolicy servers

You might need to manually disconnect from an external FPolicy server. This might be desirable if the FPolicy server has issues with notification request processing or if you need to perform maintenance on the FPolicy server.

Steps

1. Disconnect from the external FPolicy server by using the `vserver fpolicy engine-disconnect` command.

   For more information about the command, see the man pages.

2. Verify that the external FPolicy server is disconnected by using the `vserver fpolicy show-engine` command.

   For more information about the command, see the man pages.

Display information about connections to external FPolicy servers

You can display status information about connections to external FPolicy servers (FPolicy servers) for the cluster or for a specified storage virtual machine (SVM). This information can help you determine which FPolicy servers are connected.

About this task

If you do not specify any parameters, the command displays the following information:

- SVM name
- Node name
- FPolicy policy name
- FPolicy server IP address
- FPolicy server status
- FPolicy server type

In addition to displaying information about FPolicy connections on the cluster or a specific SVM, you can use command parameters to filter the command's output by other criteria.

You can specify the `-instance` parameter to display detailed information about listed policies. Alternatively, you can use the `-fields` parameter to display only the indicated fields in the command output. You can enter `?` after the `-fields` parameter to find out which fields you can use.

Step

1. Display filtered information about connection status between the node and the FPolicy server by using the appropriate command:

If you want to display connection status information about FPolicy servers…	**Enter…**
That you specify	`vserver fpolicy show-engine -server IP_address`
For a specified SVM	`vserver fpolicy show-engine -vserver vserver_name`
That are attached with a specified policy	`vserver fpolicy show-engine -policy-name policy_name`
With the server status that you specify	`vserver fpolicy show-engine -server-status status` The server status can be one of the following: • `connected` • `disconnected` • `connecting` • `disconnecting`

With the specified type	`vserver fpolicy show-engine -server-type type` The FPolicy server type can be one of the following: • `primary` • `secondary`
That were disconnected with the specified reason	`vserver fpolicy show-engine -disconnect-reason text` Disconnect can be due to multiple reasons. The following are common reasons for disconnect: • `Disconnect command received from CLI.` • `Error encountered while parsing notification response from FPolicy server.` • `FPolicy Handshake failed.` • `SSL handshake failed.` • `TCP Connection to FPolicy server failed.` • `The screen response message received from the FPolicy server is not valid.`

Example

This example displays information about external engine connections to FPolicy servers on SVM vs1.example.com:

```
cluster1::> vserver fpolicy show-engine -vserver vs1.example.com
FPolicy                                            Server-       Server-
Vserver         Policy    Node         Server       status        type
--------------- --------- ------------ ------------ -------------
---------
vs1.example.com policy1   node1        10.1.1.2     connected     primary
vs1.example.com policy1   node1        10.1.1.3     disconnected  primary
vs1.example.com policy1   node2        10.1.1.2     connected     primary
vs1.example.com policy1   node2        10.1.1.3     disconnected  primary
```

This example displays information only about connected FPolicy servers:

```
cluster1::> vserver fpolicy show-engine -fields server -server-status
connected
node       vserver         policy-name server
---------- --------------- ----------- -------
node1      vs1.example.com policy1     10.1.1.2
node2      vs1.example.com policy1     10.1.1.2
```

Display information about the FPolicy passthrough-read connection status

You can display information about FPolicy passthrough-read connection status to external FPolicy servers (FPolicy servers) for the cluster or for a specified storage virtual machine (SVM). This information can help you determine which FPolicy servers have passthrough-read data connections and for which FPolicy servers the passthrough-read connection is disconnected.

About this task

If you do not specify any parameter, the command displays the following information:

- SVM name
- FPolicy policy name
- Node name
- FPolicy server IP address
- FPolicy passthrough-read connection status

In addition to displaying information about FPolicy connections on the cluster or a specific SVM, you can use command parameters to filter the command's output by other criteria.

You can specify the `-instance` parameter to display detailed information about listed policies. Alternatively, you can use the `-fields` parameter to display only the indicated fields in the command output. You can enter `?` after the `-fields` parameter to find out which fields you can use.

Step

1. Display filtered information about connection status between the node and the FPolicy server by using the appropriate command:

If you want to display connection status information about…	Enter the command…
FPolicy passthrough-read connection status for the cluster	`vserver fpolicy show-passthrough-read-connection`
FPolicy passthrough-read connection status for a specified SVM	`vserver fpolicy show-passthrough-read-connection -vserver vserver_name`

FPolicy passthrough-read connection status for a specified policy	`vserver fpolicy show-passthrough-read-connection -policy-name policy_name`
Detailed FPolicy passthrough-read connection status for a specified policy	`vserver fpolicy show-passthrough-read-connection -policy-name policy_name -instance`
FPolicy passthrough-read connection status for the status that you specify	`vserver fpolicy show-passthrough-read-connection -policy-name policy_name -server-status status` The server status can be one of the following: • `connected` • `disconnected`

Example

The following command displays information about passthrough-read connections from all FPolicy servers on the cluster:

```
cluster1::> vserver fpolicy show-passthrough-read-connection
                                          FPolicy           Server
Vserver          Policy Name   Node       Server            Status
---------------  ------------- ---------- ----------------
--------------
vs2.example.com  pol_cifs_2    FPolicy-01   2.2.2.2           disconnected
vs1.example.com  pol_cifs_1    FPolicy-01   1.1.1.1           connected
```

The following command displays detailed information about passthrough-read connections from FPolicy servers configured in the “pol_cifs_1” policy:

```
cluster1::> vserver fpolicy show-passthrough-read-connection -policy-name
pol_cifs_1 -instance

                                       Node: FPolicy-01
                                    Vserver: vs1.example.com
                                     Policy: pol_cifs_1
                                     Server: 1.1.1.1
               Session ID of the Control Channel: 8cef052e-2502-11e3-
88d4-123478563412
                                  Server Status: connected
      Time Passthrough Read Channel was Connected: 9/24/2013 10:17:45
   Time Passthrough Read Channel was Disconnected: -
Reason for Passthrough Read Channel Disconnection: none
```

Copyright information

Trademark information