

Create the FPolicy configuration

ONTAP 9

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Create the FPolicy configuration

Create the FPolicy external engine

You must create an external engine to start creating an FPolicy configuration. The external engine defines how FPolicy makes and manages connections to external FPolicy servers. If your configuration uses the internal ONTAP engine (the native external engine) for simple file blocking, you do not need to configure a separate FPolicy external engine and do not need to perform this step.

What you'll need

The external engine worksheet should be completed.

About this task

If the external engine is used in a MetroCluster configuration, you should specify the IP addresses of the FPolicy servers at the source site as primary servers. The IP addresses of the FPolicy servers at the destination site should be specified as secondary servers.

Steps

1. Create the FPolicy external engine by using the vserver fpolicy policy external-engine create command.

The following command creates an external engine on storage virtual machine (SVM) vs1.example.com. No authentication is required for external communications with the FPolicy server.

```
vserver fpolicy policy external-engine create -vserver-name vs1.example.com -engine-name engine1 -primary-servers 10.1.1.2,10.1.1.3 -port 6789 -ssl-option no-auth
```

Verify the FPolicy external engine configuration by using the vserver fpolicy policy externalengine show command.

The following command display information about all external engines configured on SVM vs1.example.com:

vserver fpolicy policy external-engine show -vserver vsl.example.com

		Primary	Secondary	
External Vserver	Engine	Servers	Servers	Port Engine
Type				
vs1.example.com synchronous	engine1	10.1.1.2,	-	6789
_		10.1.1.3		

The following command displays detailed information about the external engine named "engine1" on SVM

vs1.example.com:

vserver fpolicy policy external-engine show -vserver vs1.example.com -engine
-name engine1

Create the FPolicy event

As part of creating an FPolicy policy configuration, you need to create an FPolicy event. You associate the event with the FPolicy policy when it is created. An event defines which protocol to monitor and which file access events to monitor and filter.

Before you begin

You should complete the FPolicy event worksheet.

Create the FPolicy event

1. Create the FPolicy event by using the vserver fpolicy policy event create command.

```
vserver fpolicy policy event create -vserver vsl.example.com -event-name event1 -protocol cifs -file-operations open, close, read, write
```

2. Verify the FPolicy event configuration by using the vserver fpolicy policy event show command.

vserver fpolicy policy event show -vserver vsl.example.com

```
Event File Is Volume

Vserver Name Protocols Operations Filters Operation

-----
vs1.example.com event1 cifs open, close, - false
read, write
```

Create the FPolicy access denied events

Beginning with ONTAP 9.13.1, users can receive notifications for failed file operations due to lack of permissions. These notifications are valuable for security, ransomware protection, and governance.

1. Create the FPolicy event by using the vserver fpolicy policy event create command.

```
vserver fpolicy policy event create -vserver vsl.example.com -event-name event1 -protocol cifs -monitor-fileop-failure true -file-operations open
```

Create the FPolicy policy

When you create the FPolicy policy, you associate an external engine and one or more events to the policy. The policy also specifies whether mandatory screening is required, whether the FPolicy servers have privileged access to data on the storage virtual machine (SVM), and whether passthrough-read for offline files is enabled.

What you'll need

- The FPolicy policy worksheet should be completed.
- If you plan on configuring the policy to use FPolicy servers, the external engine must exist.
- · At least one FPolicy event that you plan on associating with the FPolicy policy must exist.
- If you want to configure privileged data access, a SMB server must exist on the SVM.

Steps

1. Create the FPolicy policy:

```
vserver fpolicy policy create -vserver-name vserver_name -policy-name
policy_name -engine engine_name -events event_name,... [-is-mandatory
{true|false}] [-allow-privileged-access {yes|no}] [-privileged-user-name
domain\user name] [-is-passthrough-read-enabled {true|false}]
```

- You can add one or more events to the FPolicy policy.
- By default, mandatory screening is enabled.
- If you want to allow privileged access by setting the -allow-privileged-access parameter to yes, you must also configure a privileged user name for privileged access.
- If you want to configure passthrough-read by setting the <code>-is-passthrough-read-enabled</code> parameter to true, you must also configure privileged data access.

The following command creates a policy named "policy1" that has the event named "event1" and the external engine named "engine1" associated with it. This policy uses default values in the policy configuration: vserver fpolicy policy create -vserver vs1.example.com -policy -name policy1 -events event1 -engine engine1

The following command creates a policy named "policy2" that has the event named "event2" and the external engine named "engine2" associated with it. This policy is configured to use privileged access using the specified user name. Passthrough-read is enabled:

vserver fpolicy policy create -vserver vs1.example.com -policy-name policy2

```
-events event2 -engine engine2 -allow-privileged-access yes -privileged-user-name example\archive acct -is-passthrough-read-enabled true
```

The following command creates a policy named "native1" that has the event named "event3" associated with it. This policy uses the native engine and uses default values in the policy configuration:

```
vserver fpolicy policy create -vserver vs1.example.com -policy-name native1
-events event3 -engine native
```

2. Verify the FPolicy policy configuration by using the vserver fpolicy policy show command.

The following command displays information about the three configured FPolicy policies, including the following information:

- The SVM associated with the policy
- The external engine associated with the policy
- The events associated with the policy
- Whether mandatory screening is required
- Whether privileged access is required vserver fpolicy policy show

Vserver	Policy Name	Events	Engine	Is Mandatory	Privileged Access
vs1.example.com	policy1	event1	engine1	true	no
vs1.example.com	policy2	event2	engine2	true	yes
vs1.example.com	native1	event3	native	true	no

Create the FPolicy scope

After creating the FPolicy policy, you need to create an FPolicy scope. When creating the scope, you associate the scope with an FPolicy policy. A scope defines the boundaries on which the FPolicy policy applies. Scopes can include or exclude files based on shares, export policies, volumes, and file extensions.

What you'll need

The FPolicy scope worksheet must be completed. The FPolicy policy must exist with an associated external engine (if the policy is configured to use external FPolicy servers) and must have at least one associated FPolicy event.

Steps

1. Create the FPolicy scope by using the vserver fpolicy policy scope create command.

```
vserver fpolicy policy scope create -vserver-name vs1.example.com -policy-name policy1 -volumes-to-include datavol1,datavol2
```

2. Verify the FPolicy scope configuration by using the vserver fpolicy policy scope show command.

vserver fpolicy policy scope show -vserver vsl.example.com -instance

```
Vserver: vs1.example.com
Policy: policy1
Shares to Include: -
Shares to Exclude: -
Volumes to Include: datavol1, datavol2
Volumes to Exclude: -
Export Policies to Include: -
Export Policies to Exclude: -
File Extensions to Include: -
File Extensions to Exclude: -
```

Enable the FPolicy policy

After you are through configuring an FPolicy policy configuration, you enable the FPolicy policy. Enabling the policy sets its priority and starts file access monitoring for the policy.

What you'll need

The FPolicy policy must exist with an associated external engine (if the policy is configured to use external FPolicy servers) and must have at least one associated FPolicy event. The FPolicy policy scope must exist and must be assigned to the FPolicy policy.

About this task

The priority is used when multiple policies are enabled on the storage virtual machine (SVM) and more than one policy has subscribed to the same file access event. Policies that use the native engine configuration have a higher priority than policies for any other engine, regardless of the sequence number assigned to them when enabling the policy.



A policy cannot be enabled on the admin SVM.

Steps

1. Enable the FPolicy policy by using the vserver fpolicy enable command.

```
vserver fpolicy enable -vserver-name vs1.example.com -policy-name policy1
-sequence-number 1
```

2. Verify that the FPolicy policy is enabled by using the vserver fpolicy show command.

```
vserver fpolicy show -vserver vsl.example.com
```

		Sequence		
Vserver	Policy Name	Number	Status	Engine
vs1.example.com	policy1	1	on	engine1

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