

Plan the FPolicy policy configurationONTAP 9

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Plan the FPolicy policy configuration

Plan the FPolicy policy configuration overview

Before you configure the FPolicy policy, you must understand which parameters are required when creating the policy as well as why you might want to configure certain optional parameters. This information helps you to determine which values to set for each parameter.

When creating an FPolicy policy you associate the policy with the following:

- The storage virtual machine (SVM)
- · One or more FPolicy events
- · An FPolicy external engine

You can also configure several optional policy settings.

What the FPolicy policy configuration contains

You can use the following list of available FPolicy policy required and optional parameters to help you plan your configuration:

Type of information	Option	Required	Default
SVM name Specifies the name of the SVM on which you want to create an FPolicy policy.	-vserver vserver_name	Yes	None

Policy name Specifies the name of the FPolicy policy. The name can be up to 256 characters		-policy-name policy_name	Yes	None
long.				
(i)	The name should be up to 200 characters long if configuring the policy in a MetroCluster or SVM disaster recovery configuration.			
	e can contain any combination of ving ASCII-range characters:			
• a thro	ough z			
• A thro	ough Z			
• 0 thro	ough 9			
• "_", "_	·", and "."			
Event na	mes	-events	Yes	None
	a comma-delimited list of events ate with the FPolicy policy.	event_name,		
	can associate more than one to a policy.			
• An ev	vent is specific to a protocol.			
file ad proto proto monit	can use a single policy to monitor coess events for more than one col by creating an event for each col that you want the policy to tor, and then associating the is to the policy.			
• The e	events must already exist.			

 External engine name Specifies the name of the external engine to associate with the FPolicy policy. An external engine contains information required by the node to send notifications to an FPolicy server. You can configure FPolicy to use the ONTAP native external engine for simple file blocking or to use an external engine that is configured to use external FPolicy servers (FPolicy servers) for more sophisticated file blocking and file management. If you want to use the native external engine, you can either not specify a value for this parameter or you can specify native as the value. If you want to use FPolicy servers, the configuration for the external engine must already exist. 	-engine engine_name	Yes (unless the policy uses the internal ONTAP native engine)	native
 Is mandatory screening required Specifies whether mandatory file access screening is required. The mandatory screening setting determines what action is taken on a file access event in a case when all primary and secondary servers are down or no response is received from the FPolicy servers within a given timeout period. When set to true, file access events are denied. When set to false, file access events are allowed. 	-is-mandatory {true false}	No	true

Allow privileged access Specifies whether you want the FPolicy server to have privileged access to the monitored files and folders by using a privileged data connection. If configured, FPolicy servers can access files from the root of the SVM containing the monitored data using the privileged data connection. For privileged data access, SMB must be licensed on the cluster and all the data LIFs used to connect to the FPolicy servers must be configured to have cifs as one of the allowed protocols. If you want to configure the policy to allow privileged access, you must also specify the user name for the account that you want the FPolicy server to use for privileged access.	-allow -privileged -access {yes no}	No (unless passthrough-read is enabled)	no
Privileged user name Specifies the user name of the account the FPolicy servers use for privileged data access. • The value for this parameter should use the "domain\user name" format. • If -allow-privileged-access is set to no, any value set for this parameter is ignored.	-privileged -user-name user_name	No (unless privileged access is enabled)	None

Allow passthrough-read Specifies whether the FPolicy servers can provide passthrough-read services for files that have been archived to secondary storage (offline files) by the FPolicy servers:	-is-passthrough -read-enabled {true false}	No	false
 Passthrough-read is a way to read data for offline files without restoring the data to the primary storage. 			
Passthrough-read reduces response latencies because there is no need to recall files back to primary storage before responding to the read request. Additionally, passthrough-read optimizes storage efficiency by eliminating the need to consume primary storage space with files that are recalled solely to satisfy read requests.			
 When enabled, the FPolicy servers provide the data for the file over a separate privileged data channel opened specifically for passthrough- reads. 			
 If you want to configure passthrough- read, the policy must also be configured to allow privileged access. 			

Requirement for FPolicy scope configurations if the FPolicy policy uses the native engine

If you configure the FPolicy policy to use the native engine, there is a specific requirement for how you define the FPolicy scope configured for the policy.

The FPolicy scope defines the boundaries on which the FPolicy policy applies, for example whether the FPolicy applies to specified volumes or shares. There are a number of parameters that further restrict the scope to which the FPolicy policy applies. One of these parameters, <code>-is-file-extension-check-on-directories-enabled</code>, specifies whether to check file extensions on directories. The default value is false, which means that file extensions on directories are not checked.

When an FPolicy policy that uses the native engine is enabled on a share or volume and the <code>-is-file</code> <code>-extension-check-on-directories-enabled</code> parameter is set to <code>false</code> for the scope of the policy, directory access is denied. With this configuration, because the file extensions are not checked for directories, any directory operation is denied if it falls under the scope of the policy.

To ensure that directory access succeeds when using the native engine, you must set the <code>-is-file</code> <code>-extension-check-on-directories-enabled</code> parameter to true when creating the scope.

With this parameter set to true, extension checks happen for directory operations and the decision whether to allow or deny access is taken based on the extensions included or excluded in the FPolicy scope configuration.

Complete the FPolicy policy worksheet

You can use this worksheet to record the values that you need during the FPolicy policy configuration process. You should record whether you want to include each parameter setting in the FPolicy policy configuration and then record the value for the parameters that you want to include.

Type of information	Include	Your values
Storage virtual machine (SVM) name	Yes	
Policy name	Yes	
Event names	Yes	
External engine name		
Is mandatory screening required?		
Allow privileged access		
Privileged user name		
Is passthrough-read enabled?		

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