



# **Plan the FPolicy event configuration**

## **ONTAP 9**

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# Plan the FPolicy event configuration

## Learn about ONTAP FPolicy event configuration

Before you configure FPolicy events, you must understand what it means to create an FPolicy event. You must determine which protocols you want the event to monitor, which events to monitor, and which event filters to use. This information helps you plan the values that you want to set.

### What it means to create an FPolicy event

Creating the FPolicy event means defining information that the FPolicy process needs to determine what file access operations to monitor and for which of the monitored events notifications should be sent to the external FPolicy server. The FPolicy event configuration defines the following configuration information:

- Storage virtual machine (SVM) name
- Event name
- Which protocols to monitor

FPolicy can monitor SMB, NFSv3, NFSv4, and, beginning with ONTAP 9.15.1, NFSv4.1 file access operations.

- Which file operations to monitor

Not all file operations are valid for each protocol.

- Which file filters to configure

Only certain combinations of file operations and filters are valid. Each protocol has its own set of supported combinations.

- Whether to monitor volume mount and unmount operations



There is a dependency with three of the parameters (`-protocol`, `-file-operations`, `-filters`). The following combinations are valid for the three parameters:

- You can specify the `-protocol` and `-file-operations` parameters.
- You can specify all three of the parameters.
- You can specify none of the parameters.

### What the FPolicy event configuration contains

You can use the following list of available FPolicy event configuration parameters to help you plan your configuration:

Type of information	Option
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<p><b>SVM</b></p> <p>Specifies the SVM name that you want to associate with this FPolicy event.</p> <p>Each FPolicy configuration is defined within a single SVM. The external engine, policy event, policy scope, and policy that combine together to create an FPolicy policy configuration must all be associated with the same SVM.</p>	<p><code>-vserver vserver_name</code></p>
<p><b>Event name</b></p> <p>Specifies the name to assign to the FPolicy event. When you create the FPolicy policy you associate the FPolicy event with the policy using the event name.</p> <p>The name can be up to 256 characters long.</p> <div data-bbox="167 720 220 772"> </div> <div data-bbox="282 699 1024 800"> <p>The name should be up to 200 characters long if configuring the event in a MetroCluster or SVM disaster recovery configuration.</p> </div> <p>The name can contain any combination of the following ASCII-range characters:</p> <ul style="list-style-type: none"> <li>• a through z</li> <li>• A through Z</li> <li>• 0 through 9</li> <li>• " _ ", "-", and "."</li> </ul>	<p><code>-event-name event_name</code></p>
<p><b>Protocol</b></p> <p>Specifies which protocol to configure for the FPolicy event. The list for <code>-protocol</code> can include one of the following values:</p> <ul style="list-style-type: none"> <li>• cifs</li> <li>• nfsv3</li> <li>• nfsv4</li> </ul> <div data-bbox="167 1585 220 1638"> </div> <div data-bbox="282 1564 1036 1665"> <p>If you specify <code>-protocol</code>, then you must specify a valid value in the <code>-file-operations</code> parameter. As the protocol version changes, the valid values might change.</p> </div> <div data-bbox="167 1724 220 1776"> </div> <div data-bbox="282 1719 1003 1787"> <p>Beginning with ONTAP 9.15.1, nfsv4 allows you to capture NFSv4.0 and NFSv4.1 events.</p> </div>	<p><code>-protocol protocol</code></p>

## *File operations*

Specifies the list of file operations for the FPolicy event.

The event checks the operations specified in this list from all client requests using the protocol specified in the `-protocol` parameter. You can list one or more file operations by using a comma-delimited list. The list for `-file-operations` can include one or more of the following values:

- `close` for file close operations
- `create` for file create operations
- `create-dir` for directory create operations
- `delete` for file delete operations
- `delete_dir` for directory delete operations
- `getattr` for get attribute operations
- `link` for link operations
- `lookup` for lookup operations
- `open` for file open operations
- `read` for file read operations
- `write` for file write operations
- `rename` for file rename operations
- `rename_dir` for directory rename operations
- `setattr` for set attribute operations
- `symlink` for symbolic link operations



If you specify `-file-operations`, then you must specify a valid protocol in the `-protocol` parameter.

`-file-operations`  
`file_operations,...`

## Filters

`-filters filter, ...`

Specifies the list of filters for a given file operation for the specified protocol. The values in the `-filters` parameter are used to filter client requests. The list can include one or more of the following:



If you specify the `-filters` parameter, then you must also specify valid values for the `-file-operations` and `-protocol` parameters.

- `monitor-ads` option to filter the client request for alternate data stream.
- `close-with-modification` option to filter the client request for close with modification.
- `close-without-modification` option to filter the client request for close without modification.
- `first-read` option to filter the client request for first read.
- `first-write` option to filter the client request for first write.
- `offline-bit` option to filter the client request for offline bit set.

Setting this filter results in the FPolicy server receiving notification only when offline files are accessed.

- `open-with-delete-intent` option to filter the client request for open with delete intent.

Setting this filter results in the FPolicy server receiving notification only when an attempt is made to open a file with the intent to delete it. This is used by file systems when the `FILE_DELETE_ON_CLOSE` flag is specified.

- `open-with-write-intent` option to filter client request for open with write intent.

Setting this filter results in the FPolicy server receiving notification only when an attempt is made to open a file with the intent to write something in it.

- `write-with-size-change` option to filter the client request for write with size change.
- `setattr-with-owner-change` option to filter the client setattr requests for changing owner of a file or a directory.
- `setattr-with-group-change` option to filter the client setattr requests for changing the group of a file or a directory.
- `setattr-with-sacl-change` option to filter the client setattr requests for changing the SAcl on a file or a directory.

This filter is available only for the SMB and NFSv4 protocols.

`setattr-with-dacl-change` option to filter the client setattr requests for changing the DACL on a file or a directory.

<p><i>Is volume operation required</i></p> <p>Specifies whether monitoring is required for volume mount and unmount operations. The default is <code>false</code>.</p>	<pre>-volume-operation {true false}  -filters filter, ...</pre>
<p><i>FPolicy access denied notifications</i></p> <p>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. Notifications will be generated for file operation failed due to lack of permission, which includes:</p> <ul style="list-style-type: none"> <li>• Failures due to NTFS permissions.</li> <li>• Failures due to Unix mode bits.</li> <li>• Failures due to NFSv4 ACLs.</li> </ul>	<pre>-monitor-fileop-failure {true false}</pre>

This option is available only for the SMB protocol.

## Supported file operation and filter combinations ONTAP FPolicy monitors for SMB

When you configure your FPolicy event, you need to be aware that only certain combinations of file operations and filters are supported for monitoring SMB file access operations.

The list of supported file operation and filter combinations for FPolicy monitoring of SMB file access events is provided in the following table:

Supported file operations	Supported filters
close	monitor-ads, offline-bit, close-with-modification, close-without-modification, close-with-read, exclude-directory
create	monitor-ads, offline-bit
create_dir	Currently no filter is supported for this file operation.
delete	monitor-ads, offline-bit
delete_dir	Currently no filter is supported for this file operation.
getattr	offline-bit, exclude-dir
open	monitor-ads, offline-bit, open-with-delete-intent, open-with-write-intent, exclude-dir
read	monitor-ads, offline-bit, first-read

write	monitor-ads, offline-bit, first-write, write-with-size-change
rename	monitor-ads, offline-bit
rename_dir	Currently no filter is supported for this file operation.
setattr	monitor-ads, offline-bit, setattr_with_owner_change, setattr_with_group_change, setattr_with_mode_change, setattr_with_sacl_change, setattr_with_dacl_change, setattr_with_modify_time_change, setattr_with_access_time_change, setattr_with_creation_time_change, setattr_with_size_change, setattr_with_allocation_size_change, exclude_directory

Beginning with ONTAP 9.13.1, users can receive notifications for failed file operations due to lack of permissions. The list of supported access denied file operation and filter combinations for FPolicy monitoring of SMB file access events is provided in the following table:

Supported access denied file operation	Supported filters
open	NA

## Supported file operation and filter combinations that ONTAP FPolicy monitors for NFSv3

When you configure your FPolicy event, you need to be aware that only certain combinations of file operations and filters are supported for monitoring NFSv3 file access operations.

The list of supported file operation and filter combinations for FPolicy monitoring of NFSv3 file access events is provided in the following table:

Supported file operations	Supported filters
create	offline-bit
create_dir	Currently no filter is supported for this file operation.
delete	offline-bit
delete_dir	Currently no filter is supported for this file operation.
link	offline-bit
lookup	offline-bit, exclude-dir



read	offline-bit, first-read
write	offline-bit, first-write, write-with-size-change
rename	offline-bit
rename_dir	Currently no filter is supported for this file operation.
setattr	offline-bit, setattr_with_owner_change, setattr_with_group_change, setattr_with_mode_change, setattr_with_modify_time_change, setattr_with_access_time_change, setattr_with_size_change, exclude_directory
symlink	offline-bit

Beginning with ONTAP 9.13.1, users can receive notifications for failed file operations due to lack of permissions. The list of supported access denied file operation and filter combinations for FPolicy monitoring of NFSv3 file access events is provided in the following table:

Supported access denied file operation	Supported filters
access	NA
create	NA
create_dir	NA
delete	NA
delete_dir	NA
link	NA
read	NA
rename	NA
rename_dir	NA
setattr	NA
write	NA

# Supported file operation and filter combinations that ONTAP FPolicy monitors for NFSv4

When you configure your FPolicy event, you need to be aware that only certain combinations of file operations and filters are supported for monitoring NFSv4 file access operations.

Beginning with ONTAP 9.15.1, FPolicy supports the NFSv4.1 protocol.

The list of supported file operation and filter combinations for FPolicy monitoring of NFSv4 or NFSv4.1 file access events is provided in the following table:

Supported file operations	Supported filters
close	offline-bit, exclude-directory
create	offline-bit
create_dir	Currently no filter is supported for this file operation.
delete	offline-bit
delete_dir	Currently no filter is supported for this file operation.
getattr	offline-bit, exclude-directory
link	offline-bit
lookup	offline-bit, exclude-directory
open	offline-bit, exclude-directory
read	offline-bit, first-read
write	offline-bit, first-write, write-with-size-change
rename	offline-bit
rename_dir	Currently no filter is supported for this file operation.
setattr	offline-bit, setattr_with_owner_change, setattr_with_group_change, setattr_with_mode_change, setattr_with_sacl_change, setattr_with_dacl_change, setattr_with_modify_time_change, setattr_with_access_time_change, setattr_with_size_change, exclude_directory

symlink	offline-bit
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Beginning with ONTAP 9.13.1, users can receive notifications for failed file operations due to lack of permissions. The list of supported access denied file operation and filter combinations for FPolicy monitoring of NFSv4 or NFSv4.1 file access events is provided in the following table:

Supported access denied file operation	Supported filters
access	NA
create	NA
create_dir	NA
delete	NA
delete_dir	NA
link	NA
open	NA
read	NA
rename	NA
rename_dir	NA
setattr	NA
write	NA

## Complete ONTAP FPolicy event configuration worksheets

You can use this worksheet to record the values that you need during the FPolicy event configuration process. If a parameter value is required, you need to determine what value to use for those parameters before you configure the FPolicy event.

You should record whether you want to include each parameter setting in the FPolicy event configuration and then record the value for the parameters that you want to include.

Type of information	Required	Include	Your values
Storage virtual machine (SVM) name	Yes	Yes	

Event name	Yes	Yes	
Protocol	No		
File operations	No		
Filters	No		
Volume operation	No		
Access denied events (support beginning with ONTAP 9.13)	No		

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