fpolicy events

ONTAP EMS reference

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fpolicy events

fpolicy.eagain events

fpolicy.eagain.disconnect

Severity

ALERT

Description

This message occurs when the TCP connection to the FPolicy server is broken four times in a two minute interval due to EAGAIN error. ONTAP will not establish a new connection and FPolicy notifications will not be sent to the server.

Corrective Action

Persistent EAGAIN errors indicate slow network or slow/unresponsive FPolicy server. Check the connection between the FPolicy server and the node or contact the FPolicy application’s vendor support to address the slow/unresponsive server.

Syslog Message

Connection to the FPolicy server "%s" of policy "%s" is broken for Vserver %s (reason: "%s").

Parameters

fpserver (STRING): IP address of the FPolicy server.
policy (STRING): Name of the policy.
vserver (STRING): Vserver Name.
reason (STRING): Reason for disconnection.

fpolicy.eagain.on.write

Severity

NOTICE

Description

This message occurs when there is no space in the send buffer for sending a message to the FPolicy server. The FPolicy server is apparently slow in reading notifications.

Corrective Action

Occasional EAGAIN (resource temporarily unavailable) errors can occur for transient network issues. If this message occurs frequently, check the connection between the FPolicy server and the node. If the errors persist, contact the FPolicy application’s vendor support.

Syslog Message

Write returned EAGAIN while sending notification to the FPolicy server "%s" for Vserver %s with UUID %s.

Parameters

fpserver (STRING): IP address of the FPolicy server.
vserver (STRING): Vserver Name.
Vserver_UUID (STRING): Vserver UUID.

fpolicy.fgconversion events

fpolicy.fgconversion.warning

Severity

NOTICE

Description

This message occurs when a FlexVol® unmount notification is not sent to the FPolicy(tm) server during a FlexGroup conversion.

Corrective Action

(None).

Syslog Message

Failed to send FPolicy unmount notification for FlexVol %s of Vserver %s. FlexGroup MSID: %llu.

Parameters

vserverName (STRING): Name of the Vserver.
volumeName (STRING): Name of the volume being converted to a FlexGroup.
flexgroupMsid (LONGINTHEX): MSID of the new FlexGroup.

fpolicy.memory events

fpolicy.memory.pressure

Severity

ALERT

Description

This message occurs when either the FPolicy Service Manager (FSM) receives too many requests to process immediately, or when the number of requests is accumulating due to server connectivity issues. FSM processing time might degrade as a result.

Corrective Action

Check the connection between the node and the FPolicy server by using the "vserver fpolicy show-engine" command. Verify that FPolicy is only monitoring file operations that are recommended by the FPolicy server vendor. Verify that FPolicy is using filters recommended by the server vendor for common file operations, for example, close, read, write and open.

Syslog Message

FSM is experiencing memory pressure.

Parameters

(None).

fpolicy.outage events

fpolicy.outage.file.invalid

Severity

ERROR

Description

This message occurs when file creation fails under the configured resiliency directory path.

Corrective Action

Check the configured resiliency directory path. To find the configured resiliency directory path by using the "vserver fpolicy policy external-engine show" command.

Syslog Message

Failed to create file under configured resiliency directory path of FPolicy external engine "%s" for policy "%s". Reason: %s.

Parameters

engine (STRING): FPolicy external engine.
policy (STRING): FPolicy policy.
reason (STRING): Reason for the failure.

fpolicy.outage.msg.lost

Severity

ERROR

Description

This message occurs when the send operation fails for the network outage notification.

Corrective Action

Find the file in the configured resiliency directory path.

Syslog Message

Failed to send outage notification message to any FPolicy server for policy "%s" and path "%s".

Parameters

policy (STRING): FPolicy policy.
path (STRING): File path.

fpolicy.outage.msg.success

Severity

NOTICE

Description

This message occurs when a network outage notification is successfully sent.

Corrective Action

(None).

Syslog Message

Outage notification message sent to at least one FPolicy server for policy "%s" and file path "%s".

Parameters

policy (STRING): FPolicy policy.
path (STRING): File path.

fpolicy.outage.over

Severity

NOTICE

Description

This message occurs when the FPolicy external engine, acting asynchronously and with resiliency support enabled, is reconnected after a network outage.

Corrective Action

(None).

Syslog Message

The network outage (duration: "%llu" sec) is over. At least one FPolicy server is now connected successfully for FPolicy external engine "%s" of policy "%s".

Parameters

Duration (LONGINT): Network outage duration in seconds.
engine (STRING): Asynchronous FPolicy external engine.
policy (STRING): FPolicy policy.

fpolicy.outage.start

Severity

NOTICE

Description

This message occurs when the FPolicy external engine, acting asynchronously and with resiliency support enabled, is disconnected due to a network outage.

Corrective Action

(None).

Syslog Message

Network outage for FPolicy external engine "%s" of policy "%s".

Parameters

engine (STRING): Asynchronous FPolicy external engine.
policy (STRING): FPolicy policy.

fpolicy.outage.timeout

Severity

NOTICE

Description

This message occurs when the maximum notification retention duration for the FPolicy external engine expires, and the engine is configured to operate asynchronously with resiliency support enabled. The storage controller stores no more notifications.

Corrective Action

(None).

Syslog Message

Maximum notification retention time has expired for FPolicy external engine "%s" of policy "%s".

Parameters

engine (STRING): Asynchronous FPolicy external engine.
policy (STRING): FPolicy policy.

fpolicy.outage.write

Severity

NOTICE

Description

This message occurs when FPolicy cannot store file notifications using the configured resiliency directory path.

Corrective Action

(None).

Syslog Message

Failed to store notifications in configured resiliency directory path of FPolicy external engine "%s" for policy "%s". Reason: %s.

Parameters

engine (STRING): FPolicy external engine.
policy (STRING): FPolicy policy.
reason (STRING): Reason for the failure.

fpolicy.outage.writes.lost

Severity

ERROR

Description

This message occurs when FPolicy fails multiple consecutive times to store file notifications using the configured resiliency directory path.

Corrective Action

Check the configured resiliency directory path. To find the configured resiliency directory path by using the "vserver fpolicy policy external-engine show" command.

Syslog Message

Unable to store notifications in configured resiliency directory path of FPolicy external engine "%s" for policy "%s".

Parameters

engine (STRING): FPolicy external engine.
policy (STRING): FPolicy policy.

fpolicy.pspath events

fpolicy.pspath.failed

Severity

ERROR

Description

This message occurs when the creation of the FPolicy persistent store active or backlog directories fails. This disrupts the persistent store workflow in FPolicy.

Corrective Action

Check the space availability and permission on volume and recreate the PS config.

Syslog Message

Failed to create FPolicy persistent store path "%s" in SVM "%s".

Parameters

path (STRING): The directory path name that failed while it’s creation.
vserverName (STRING): Name of the Vserver.

fpolicy.server events

fpolicy.server.bkPressApply

Severity

INFORMATIONAL

Description

This message occurs when the FPolicy server has applied backpressure which means that the server is busy and does not want to receive requests until it removes backpressure.

Corrective Action

(None).

Syslog Message

FPolicy server "%s" has applied backpressure.

Parameters

fpserver (STRING): IP Address of the FPolicy server.

fpolicy.server.bkPressRemove

Severity

INFORMATIONAL

Description

This message occurs when the FPolicy server removes backpressure, which it has previously applied. The FPolicy server removes backpressure when it is ready to receive requests.

Corrective Action

(None).

Syslog Message

FPolicy server "%s" has removed backpressure.

Parameters

fpserver (STRING): IP Address of the FPolicy server.

fpolicy.server.connect

Severity

NOTICE

Description

This message occurs when a control channel is established between the node and the FPolicy server.

Corrective Action

(None).

Syslog Message

Control channel with the FPolicy server "%s" of policy "%s" is established for Vserver %s.

Parameters

fpserver (STRING): IP Address of the FPolicy server.
policy (STRING): Name of the policy.
vserver (STRING): Vserver Name.

fpolicy.server.connectError

Severity

ERROR

Description

This message occurs when the node fails to establish a control channel with the FPolicy server. The control channel is used for communication between the node and the FPolicy server. The error could be because of a failure in establishing TCP connection, SSL failure, FPolicy handshake failure, or some internal error.

Corrective Action

Depending on the failure reason, check the following: On the node, check whether the correct IP and port entries are specified in the policy configuration. Also, the FPolicy server should be running and listening on the port specified in the policy configuration. Run the command "network interface show" to determine that at least one data logical interface (LIF) is configured to the Vserver on the node. Run the command

"routing-groups route show" to verify that the network route exists to the FPolicy server. Run the command "network ping" to verify that the FPolicy server is reachable from the node. For any other reason, see the Cluster-Mode documentation.

Syslog Message

Node failed to establish a connection with the FPolicy server "%s" of policy "%s" for Vserver %s (reason: "%s").

Parameters

fpserver (STRING): IP address of the FPolicy server.
policy (STRING): Name of the policy.
vserver (STRING): Vserver Name.
reason (STRING): Reason for failure.

fpolicy.server.disconnect

Severity

ERROR

Description

This message occurs when the TCP connection to the FPolicy(tm) server is broken.

Corrective Action

Reestablish the connection by using "vserver fpolicy engine-connect" command.

Syslog Message

Connection to the FPolicy server "%s" of policy "%s" is broken for Vserver %s (reason: "%s").

Parameters

fpserver (STRING): IP address of the FPolicy server.
policy (STRING): Name of the policy.
vserver (STRING): Vserver Name.
reason (STRING): Reason for disconnection.

fpolicy.server.maxPendingReq

Severity

INFORMATIONAL

Description

This message occurs when the maximum outstanding requests for a FPolicy server from a node has reached. The value is configurable through CLI.

Corrective Action

If you want to increase the maximum pending request modify the "-max-server-reqs" option using command "fpolicy policy external-engine modify" from CLI.

Syslog Message

Maximum outstanding requests for the FPolicy server "%s" has reached.

Parameters

fpserver (STRING): IP Address of the FPolicy server.

fpolicy.unsupportedpathlen events

fpolicy.unsupportedPathLen

Severity

NOTICE

Description

This message occurs when an FPolicy screen request has a path name longer than 4k bytes. The associated file operation will not be screened by FPolicy.

Corrective Action

If possible remove the volume generating long path notification from FPolicy screening.

Syslog Message

FPolicy notification has path names with unsupported length of "%lld". Max supported path length is %lld. The associated file operation will not be screened by FPolicy.

Parameters

currentPathLen (LONGINT): Length of the file or directory path from root of volume.
allowedPathLen (LONGINT): Maximum supported path length.

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