



fpolicy events

ONTAP 9.11.1 EMS reference

NetApp
February 12, 2024

Table of Contents

- fpolicy events 1
 - fpolicy.eagain events 1
 - fpolicy.fgconversion events 1
 - fpolicy.memory events 2
 - fpolicy.outage events 2
 - fpolicy.server events 5

fpolicy events

fpolicy.eagain events

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 ID %d.

Parameters

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

vserver (INT): Vserver ID.

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 (LONGINTEX): 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.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 ID.
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.

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.