



accesscache events

ONTAP 9.11.1 EMS reference

NetApp
December 15, 2022

Table of Contents

- accesscache events 1
- accesscache.cfg events 1
- accesscache.nearlimits events 1
- accesscache.reachedlimits events 2

accesscache events

accesscache.cfg events

accessCache.cfg.updateFailed

Severity

ERROR

Description

This message occurs when exports access cache configuration is modified but the new configuration could not be updated in the Nblade. The access cache is therefore operating with the older configuration.

Corrective Action

Retry the exports access cache configuration modification. If it continuously fails, restart management gateway. If the problem persists, contact NetApp technical support.

Syslog Message

Access cache configuration change for Vserver "%s" on node "%s" could not be updated. Failure reason is "%s".

Parameters

vserver (STRING): Name of the Vserver on which the problem is occurring.

node (STRING): Name of the Node on which the problem is occurring.

reason (STRING): The reason for the failure.

accesscache.nearlimits events

AccessCache.NearLimits

Severity

ALERT

Description

This message occurs when the access cache module is near its limits for entries or export rules. Reaching these limits can prevent new clients from being able to mount and perform I/O on the storage system, and can also cause clients to be granted or denied access based on stale cached information.

Corrective Action

Ensure that the number of clients accessing the storage system continues to be below the limits for access cache entries and export rules across those entries. If the set of clients accessing the storage system is constantly changing, consider using the "vserver export-policy access-cache config modify" command to reduce the harvest timeout parameter so that cache entries for clients that are no longer accessing the storage system can be evicted sooner.

Syslog Message

The exports access cache module is near its limits for entries (current count : %u, warning threshold : %u, limit : %u) or export rules across entries (current count : %u, warning threshold : %u, limit : %u).

Parameters

numEntriesCurrent (INT): Current number of entries in the cache.
numEntriesWarningThreshold (INT): Warning threshold for number of entries.
numEntriesLimit (INT): Limit on the number of entries.
numRulesCurrent (INT): Current number of export rules in the cache.
numRulesWarningThreshold (INT): Warning threshold for number of export rules.
numRulesLimit (INT): Limit on the number of export rules.

accesscache.reachedlimits events

AccessCache.ReachedLimits

Severity

EMERGENCY

Description

This message occurs when the access cache module reaches its limit for entries or export rules. This condition can prevent new clients from being able to mount and perform I/O on the storage system. This condition can also cause clients to be granted or denied access based on stale information.

Corrective Action

Ensure that the number of clients accessing the storage system is below the limits for access cache entries and export rules across those entries. If the set of clients accessing the storage system is constantly changing, consider using the "vserver export-policy access-cache config modify" command to reduce the harvest timeout parameter so that cache entries for clients that are no longer accessing the storage system can be evicted sooner.

Syslog Message

The exports access cache module on this node reached its limits while trying to add %d new entries (current count : %u, limit : %u) and/or %d export rules (current count : %u, limit : %u).

Parameters

numEntriesDelta (INT): Number of new entries to be added.
numEntriesCurrent (INT): Current number of entries in the cache.
numEntriesLimit (INT): Limit on the number of entries.
numRulesDelta (INT): Number of new export rules to be added.
numRulesCurrent (INT): Current number of export rules in the cache.
numRulesLimit (INT): Limit on the number of export rules.

Copyright information

Copyright © 2022 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.