



snmp events

ONTAP EMS reference

NetApp
November 22, 2024

Table of Contents

- snmp events 1
- snmp.authentication events 1
- snmp.coldstart events 1
- snmp.fips events 1
- snmp.link events 2
- snmp.raid events 3
- snmp.server events 4
- snmp.snmpv3 events 4
- snmp.traphost events 5
- snmp.warmstart events 5

snmp events

snmp.authentication events

snmp.authentication.failure

Severity

ERROR

Description

This message occurs when there is an authentication failure during an SNMP query. This trap is generated for all SNMP versions.

Corrective Action

In case of SNMPv1/v2c check whether the SNMP community string is configured. In case of SNMPv3, check whether SNMPv3 authentication credentials are correctly configured. The SNMPv3 credentials include username, password, authentication protocol, authentication protocol password, privacy protocol and privacy protocol password.

Syslog Message

Authentication failure for SNMP query from port: %d.

Parameters

interface (INT): Port on which the SNMP authentication failed.

snmp.coldstart events

snmp.coldstart.trap

Severity

INFORMATIONAL

Description

This message occurs when the SNMP daemon is reinitializing itself with a coldStart. A coldStart(0) trap signifies that configuration changes are made to the agent or the protocol entity implementation during the reinitialization.

Corrective Action

(None).

Syslog Message

SNMP daemon was reinitialized with configuration changes.

Parameters

(None).

snmp.fips events

snmp.fips.objs.del.failed

Severity

ERROR

Description

This message occurs when the system fails to delete SNMP traphosts and users that are not FIPS compliant. The system tries to automatically delete them when FIPS is configured in the cluster. The SNMP traphosts and users that are left become inoperable.

Corrective Action

Delete remaining noncompliant SNMP traphosts first by using the "system snmp traphost delete" command. Then delete the remaining noncompliant SNMP users by using the "security login delete" command. The following SNMP users and traphosts are not FIPS compliant: 1. SNMPv1 users, SNMPv2c users, and SNMPv3 users having "none" or "MD5" as the authentication method or having "none" or "DES" as the encryption protocol. 2. SNMPv1 traphosts and SNMPv3 traphosts configured with a user that is not FIPS compliant.

Syslog Message

Failed to delete SNMP traphosts and users that are not FIPS compliant.

Parameters

(None).

snmp.fips.support

Severity

INFORMATIONAL

Description

This message occurs when Data ONTAP is operating in FIPS compliant mode but SNMPv3 is configured with non-compliant/weaker ciphers or hash algorithms. Hence SNMPv3 is disabled.

Corrective Action

(None).

Syslog Message

Data ONTAP is operating in FIPS compliant mode and SNMPv3 is configured with non-compliant ciphers or hash algorithms. Hence SNMPv3 is disabled.

Parameters

(None).

snmp.link events

snmp.link.down

Severity

INFORMATIONAL

Description

This message occurs when a network interface is down.

Corrective Action

If this message is not followed by a LinkUp message, the cluster administrator should manually check the link state with the "network port show" command, verifying that the port is administratively up. If the link state is still down and the port is not intentionally disabled, there might be a physical network problem: 1. Verify the switch has the corresponding port administratively and operationally up. 2. Verify that the network cable between the storage controller port and the corresponding switch is connected to the correct port and is not damaged. 3. Verify the integrity of the network cable with a cable tester, or swap in another cable known to be in good condition. 4. For further information or assistance contact NetApp technical support

Syslog Message

Interface %d is down.

Parameters

interface (INT): Number of the interface.

snmp.link.up

Severity

INFORMATIONAL

Description

This message occurs when a network interface is up.

Corrective Action

(None).

Syslog Message

Interface %d is up

Parameters

interface (INT): The number of the interface

snmp.raid events

snmp.raid.iterator.failure

Severity

ERROR

Description

This event is generated when a RAID group iterator was not able to be created.

Corrective Action

Check for other resource related issues.

Syslog Message

SNMP failed to create RAID group iterator

Parameters

(None).

snmp.server events

snmp.server.busy

Severity

ERROR

Description

This message occurs when the SNMP daemon is busy serving a high rate of incoming SNMP queries. This might be caused by multiple SNMP clients querying the cluster or a malicious client attempting a denial-of-service attack. SNMP clients might experience delays or timeouts.

Corrective Action

Run "tcpdump" on cluster to determine: If multiple SNMP clients querying the cluster, then reduce the rate of SNMP queries to the cluster or stop them entirely for a period of time (~15 minutes). If a malicious SNMP client is trying a denial-of-service attack, then update the firewall policy to block the client from querying the cluster by using the "firewall policy modify -policy mgmt -service snmp -action deny -ip-list IP_address" command.

Syslog Message

SNMP daemon is busy serving a high rate of incoming SNMP queries.

Parameters

(None).

snmp.snmpv3 events

snmp.snmpv3.enable

Severity

ERROR

Description

This message occurs when SNMPv3 is disabled due to a cluster in FIPS mode being upgraded to a version of ONTAP® software supporting the SNMPv3 FIPS feature. FIPS compliance adds more stringent limitations on SNMP users and SNMP traphosts, so SNMPv3 access has been disabled to allow the current SNMP users and SNMP traphosts to be reevaluated. If SNMPv3 functionality is required, you can reenableView it; if cluster is still in FIPS mode at that time, any existing SNMP users and SNMP traphosts that are noncompliant to FIPS will be deleted. Until SNMPv3 is reenableViewed, SNMPv3 users cannot be created, SNMPv3 traphosts cannot be added and SNMPv3 packets will not be processed.

Corrective Action

Enable SNMPv3 in the cluster by using the 'system snmp enable-snmpv3' command.

Syslog Message

SNMPv3 is disabled due to a cluster in FIPS mode being upgraded to a version of ONTAP® software supporting the SNMPv3 FIPS feature.

Parameters

(None).

snmp.traphost events

snmp.traphost.resolve.failed

Severity

ERROR

Description

The snmp daemon could not resolve (find an IP address via DNS for) a traphost. The appliance will try again in an hour to resolve the traphost.

Corrective Action

Make sure that the network, including the domain server and traphost, are connected, running, and configured correctly. If you fix this problem, wait until the next retry or run 'snmp init 1' to force a resolve. If you don't fix this problem, you may want to remove this traphost from the list. Attempting to resolve traphosts may take time because of network timeouts.

Syslog Message

snmp: cannot send traps to '%s' because it could not be resolved via DNS. Retries occur hourly.

Parameters

host (STRING): The host that could not be resolved via a DNS lookup.

snmp.warmstart events

snmp.warmstart.trap

Severity

INFORMATIONAL

Description

This message occurs when the SNMP daemon is reinitializing itself with a warmStart. A warmStart(1) trap signifies that no configuration changes are made to the agent or the protocol entity implementation during the reinitialization.

Corrective Action

(None).

Syslog Message

SNMP daemon was reinitialized with no configuration changes.

Parameters

(None).

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.