

Monitor switch health

Cluster and storage switches

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Table of Contents

Monitor switch health
Overview of switch health monitor
Configure switch health monitoring
Check switch health
Log collection

Monitor switch health

Overview of switch health monitor

The Ethernet switch health monitor (CSHM) is responsible for ensuring the operational health of Cluster and Storage network switches and collecting switch logs for debugging purposes.

Configure switch health monitoring

Configuration overview

The Ethernet switch health monitor (CSHM) is responsible for ensuring the operational health of Cluster and Storage network switches and collecting switch logs for debugging purposes.

- Configure log collection
- Optional: Configure SNMPv3

Configure log collection

The Ethernet switch health monitor (CSHM) is responsible for ensuring the operational health of Cluster and Storage network switches and collecting switch logs for debugging purposes. This procedure guides you through the process of setting up collection, requesting detailed **Support** logs, and enabling an hourly collection of **Periodic** data that is collected by AutoSupport.

NOTE: If you enable FIPS mode, you must complete the following:

- 1. Regenerate ssh keys on the switch, as per vendor instructions.
- ()
- 2. Regenerate ssh keys on the ONTAP side using debug system regeneratesystemshell-key-pair
- 3. Re-run log collection setup routine using system switch ethernet log setuppassword

Before you begin

- The user must have access to the switch show commands. If these are not available, create a new user and grant the necessary permissions to the user.
- Switch health monitoring must be enabled for the switch. Verify this by ensuring the Is Monitored: field is set to true in the output of the system switch ethernet show command.
- For NVIDIA switches, the user for log collection must be permitted to run the log collection commands without displaying a password prompt. To allow this usage, run the command: echo '<username> ALL = NOPASSWD: /usr/cumulus/bin/cl-support, /usr/sbin/csmgrctl' | sudo EDITOR='tee -a' visudo -f /etc/sudoers.d/cumulus

Steps

ONTAP 9.14.1 and earlier

1. To set up log collection, run the following command for each switch. You are prompted to enter the switch name, username, and password for log collection.

system switch ethernet log setup-password

```
cluster1::*> system switch ethernet log setup-password
Enter the switch name: <return>
The switch name entered is not recognized.
Choose from the following list:
cs1
cs2
cluster1::*> system switch ethernet log setup-password
Enter the switch name: cs1
Would you like to specify a user other than admin for log
collection? {y|n}: n
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
cluster1::*> system switch ethernet log setup-password
Enter the switch name: cs2
Would you like to specify a user other than admin for log
collection? {y|n}: n
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
```

2. To request support log collection and enable periodic collection, run the following command. This starts both types of log collection: the detailed Support logs and an hourly collection of Periodic data.

system switch ethernet log modify -device <switch-name> -log-request
true

```
cluster1::*> system switch ethernet log modify -device cs1 -log
-request true
Do you want to modify the cluster switch log collection
configuration? {y|n}: [n] y
Enabling cluster switch log collection.
cluster1::*> system switch ethernet log modify -device cs2 -log
-request true
Do you want to modify the cluster switch log collection
configuration? {y|n}: [n] y
Enabling cluster switch log collection.
```

Wait for 10 minutes and then check that the log collection completes:

system switch ethernet log show

ONTAP 9.15.1 and later

1. To set up log collection, run the following command for each switch. You are prompted to enter the switch name, username, and password for log collection.

system switch ethernet log setup-password

```
cluster1::*> system switch ethernet log setup-password
Enter the switch name: <return>
The switch name entered is not recognized.
Choose from the following list:
cs1
cs2
cluster1::*> system switch ethernet log setup-password
Enter the switch name: cs1
Would you like to specify a user other than admin for log
collection? {y|n}: n
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
cluster1::*> system switch ethernet log setup-password
Enter the switch name: cs2
Would you like to specify a user other than admin for log
collection? {y|n}: n
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
```

2. Enable periodic log collection:

system switch ethernet log modify -device <switch-name> -periodic
-enabled true

```
cluster1::*> system switch ethernet log modify -device cs1 -periodic
-enabled true
Do you want to modify the cluster switch log collection
configuration? \{y|n\}: [n] y
cs1: Periodic log collection has been scheduled to run every hour.
cluster1::*> system switch ethernet log modify -device cs2 -periodic
-enabled true
Do you want to modify the cluster switch log collection
configuration? \{y|n\}: [n] y
cs2: Periodic log collection has been scheduled to run every hour.
cluster1::*> system switch ethernet log show
                                         Periodic Periodic
Support
Switch
                                         Log Enabled Log State
Log State
cs1
                                         true
                                                    scheduled
never-run
cs2
                                         true
                                                scheduled
never-run
2 entries were displayed.
```

3. Request support log collection:

system switch ethernet log collect-support-log -device <switch-name>

```
cluster1::*> system switch ethernet log collect-support-log -device
cs1
cs1: Waiting for the next Ethernet switch polling cycle to begin
support collection.
cluster1::*> system switch ethernet log collect-support-log -device
cs2
cs2: Waiting for the next Ethernet switch polling cycle to begin
support collection.
cluster1::*> *system switch ethernet log show
                                          Periodic Periodic
Support
Switch
                                          Log Enabled Log State
Log State
                                          false
                                                     halted
cs1
initiated
cs2
                                          true
                                                      scheduled
initiated
2 entries were displayed.
```

4. To view all details of log collection, including the enablement, status message, previous timestamp and filename of periodic collection, the request status, status message, and previous timestamp and filename of support collection, use the following:

system switch ethernet log show -instance

cluster1::*> system switch ethernet log show -instance Switch Name: cs1 Periodic Log Enabled: true Periodic Log Status: Periodic log collection has been scheduled to run every hour. Last Periodic Log Timestamp: 3/11/2024 11:02:59 Periodic Log Filename: cluster1:/mroot/etc/log/shmcluster-info.tgz Support Log Requested: false Support Log Status: Successfully gathered support logs - see filename for their location. Last Support Log Timestamp: 3/11/2024 11:14:20 Support Log Filename: cluster1:/mroot/etc/log/shmcluster-log.tgz Switch Name: cs2 Periodic Log Enabled: false Periodic Log Status: Periodic collection has been halted. Last Periodic Log Timestamp: 3/11/2024 11:05:18 Periodic Log Filename: cluster1:/mroot/etc/log/shmcluster-info.tqz Support Log Requested: false Support Log Status: Successfully gathered support logs - see filename for their location. Last Support Log Timestamp: 3/11/2024 11:18:54 Support Log Filename: cluster1:/mroot/etc/log/shmcluster-log.tgz 2 entries were displayed.



If any error statuses are reported by the log collection feature (visible in the output of system switch ethernet log show), see Troubleshoot log collection for further details.

What's next?

Configure SNMPv3 (Optional).

Optional: Configure SNMPv3 for your switch

SNMP is used to monitor the switches. The Ethernet Switch Health Monitor (CSHM) utilizes SNMP to monitor the health and performance of cluster and storage switches. By default, SNMPv2c is configured automatically through the Reference Configuration File (RCF).

SNMPv3 is more secure than SNMPv2 because it introduces robust security features such as authentication, encryption, and message integrity, which protect against unauthorized access and ensure data confidentiality and integrity during transmission.



SNMPv3 is only supported on ONTAP 9.12.1 and later.

Follow this procedure to configure SNMPv3 for your specific switch, which supports CSHM.

About this task

The following commands are used to configure an SNMPv3 username on **Broadcom**, **Cisco**, and **NVIDIA** switches:

Broadcom switches

Configure an SNMPv3 username NETWORK-OPERATOR on Broadcom BES-53248 switches.

• For no authentication:

snmp-server user SNMPv3UserNoAuth NETWORK-OPERATOR noauth

• For MD5/SHA authentication:

snmp-server user SNMPv3UserAuth NETWORK-OPERATOR [auth-md5|auth-sha]

· For MD5/SHA authentication with AES/DES encryption:

```
snmp-server user SNMPv3UserAuthEncrypt NETWORK-OPERATOR [auth-
md5|auth-sha] [priv-aes128|priv-des]
```

The following command configures an SNMPv3 username on the ONTAP side:

security login create -user-or-group-name SNMPv3_USER -application snmp -authentication-method usm -remote-switch-ipaddress ADDRESS

The following command establishes the SNMPv3 username with CSHM:

```
cluster1::*> system switch ethernet modify -device DEVICE -snmp-version
SNMPv3 -community-or-username SNMPv3 USER
```

Steps

1. Set up the SNMPv3 user on the switch to use authentication and encryption:

show snmp status

(sw1)(Config)# snmp-server user <username> network-admin auth-md5 <password> priv-aes128 <password></password></password></username>						5
(cs1)(Config)# s	how snmp user snmp					
Name	Group Name	Auth Meth	Priv Meth 	Remote	Engine :	ID
<username> 8000113d03d8c497</username>		MD5	AES128			

2. Set up the SNMPv3 user on the ONTAP side:

security login create -user-or-group-name <username> -application
snmp -authentication-method usm -remote-switch-ipaddress
10.231.80.212

cluster1::*> security login create -user-or-group-name <username>
-application snmp -authentication-method usm -remote-switch
-ipaddress 10.231.80.212
Enter the authoritative entity's EngineID [remote EngineID]:
Which authentication protocol do you want to choose (none, md5, sha, sha2-256)
[none]: md5
Enter the authentication protocol password (minimum 8 characters
long):
Enter the authentication protocol password again:
Which privacy protocol do you want to choose (none, des, aes128)
[none]: aes128
Enter privacy protocol password (minimum 8 characters long):
Enter privacy protocol password (minimum 8 characters long):

3. Configure CSHM to monitor with the new SNMPv3 user:

system switch ethernet show-all -device "sw1" -instance

```
cluster1::*> system switch ethernet show-all -device "sw1
(b8:59:9f:09:7c:22) " -instance
                                   Device Name: sw1
                                    IP Address: 10.228.136.24
                                  SNMP Version: SNMPv2c
                                 Is Discovered: true
DEPRECATED-Community String or SNMPv3 Username: -
           Community String or SNMPv3 Username: cshm1!
                                  Model Number: BES-53248
                                Switch Network: cluster-network
                              Software Version: 3.9.0.2
                     Reason For Not Monitoring: None <---- should
display this if SNMP settings are valid
                      Source Of Switch Version: CDP/ISDP
                                Is Monitored ?: true
                   Serial Number of the Device: QTFCU3826001C
                                   RCF Version: v1.8X2 for
Cluster/HA/RDMA
cluster1::*>
cluster1::*> system switch ethernet modify -device "sw1" -snmp
-version SNMPv3 -community-or-username <username>
```

4. Verify that the serial number to be queried with the newly created SNMPv3 user is the same as detailed in the previous step after the CSHM polling period has completed.

system switch ethernet polling-interval show

cluster1::*> system switch ethernet polling-interval show Polling Interval (in minutes): 5 cluster1::*> system switch ethernet show-all -device "sw1" -instance Device Name: sw1 IP Address: 10.228.136.24 SNMP Version: SNMPv3 Is Discovered: true DEPRECATED-Community String or SNMPv3 Username: -Community String or SNMPv3 Username: <username> Model Number: BES-53248 Switch Network: cluster-network Software Version: 3.9.0.2 Reason For Not Monitoring: None <---- should display this if SNMP settings are valid Source Of Switch Version: CDP/ISDP Is Monitored ?: true Serial Number of the Device: QTFCU3826001C RCF Version: v1.8X2 for Cluster/HA/RDMA

Cisco switches

Configure an SNMPv3 username SNMPv3_USER on Cisco 9336C-FX2 switches:

• For no authentication:

snmp-server user SNMPv3_USER NoAuth

• For MD5/SHA authentication:

snmp-server user SNMPv3 USER auth [md5|sha] AUTH-PASSWORD

For MD5/SHA authentication with AES/DES encryption:

```
snmp-server user SNMPv3_USER AuthEncrypt auth [md5|sha] AUTH-
PASSWORD priv aes-128 PRIV-PASSWORD
```

The following command configures an SNMPv3 username on the ONTAP side:

security login create -user-or-group-name SNMPv3_USER -application snmp -authentication-method usm -remote-switch-ipaddress ADDRESS The following command establishes the SNMPv3 username with CSHM:

system switch ethernet modify -device DEVICE -snmp-version SNMPv3 -community-or-username SNMPv3_USER

Steps

1. Set up the SNMPv3 user on the switch to use authentication and encryption:

show snmp user

<pre>(sw1)(Config)# snmp-server user SNMPv3User auth md5 <auth_password> priv aes-128 <priv_password></priv_password></auth_password></pre>						
(swl)(Config)# show snmp user						
 SNMP USERS						
User acl_filter	Auth	Priv(enforce)	Groups			
admin SNMPv3User	md5 md5		network-admin network-operator			
NOTIFICATION	TARGET USERS	(configured for	sending V3 Inform)			
User	Auth	Priv	_			
(swl)(Config)#						

2. Set up the SNMPv3 user on the ONTAP side:

security login create -user-or-group-name <username> -application snmp -authentication-method usm -remote-switch-ipaddress 10.231.80.212

```
cluster1::*> system switch ethernet modify -device "sw1
(b8:59:9f:09:7c:22) " -is-monitoring-enabled-admin true
cluster1::*> security login create -user-or-group-name <username>
-application snmp -authentication-method usm -remote-switch
-ipaddress 10.231.80.212
Enter the authoritative entity's EngineID [remote EngineID]:
Which authentication protocol do you want to choose (none, md5, sha,
sha2-256)
[none]: md5
Enter the authentication protocol password (minimum 8 characters
long):
Enter the authentication protocol password again:
Which privacy protocol do you want to choose (none, des, aes128)
[none]: aes128
Enter privacy protocol password (minimum 8 characters long):
Enter privacy protocol password again:
```

3. Configure CSHM to monitor with the new SNMPv3 user:

system switch ethernet show-all -device "sw1" -instance

```
cluster1::*> system switch ethernet show-all -device "sw1" -instance
                                   Device Name: sw1
                                    IP Address: 10.231.80.212
                                  SNMP Version: SNMPv2c
                                 Is Discovered: true
   SNMPv2c Community String or SNMPv3 Username: cshm1!
                                  Model Number: N9K-C9336C-FX2
                                Switch Network: cluster-network
                              Software Version: Cisco Nexus
Operating System (NX-OS) Software, Version 9.3(7)
                     Reason For Not Monitoring: None <---- displays
when SNMP settings are valid
                      Source Of Switch Version: CDP/ISDP
                                Is Monitored ?: true
                   Serial Number of the Device: OTFCU3826001C
                                   RCF Version: v1.8X2 for
Cluster/HA/RDMA
cluster1::*>
cluster1::*> system switch ethernet modify -device "sw1" -snmp
-version SNMPv3 -community-or-username <username>
cluster1::*>
```

4. Verify that the serial number to be queried with the newly created SNMPv3 user is the same as detailed in the previous step after the CSHM polling period has completed.

system switch ethernet polling-interval show

```
cluster1::*> system switch ethernet polling-interval show
         Polling Interval (in minutes): 5
cluster1::*> system switch ethernet show-all -device "sw1" -instance
                                   Device Name: sw1
                                    IP Address: 10.231.80.212
                                  SNMP Version: SNMPv3
                                 Is Discovered: true
   SNMPv2c Community String or SNMPv3 Username: SNMPv3User
                                  Model Number: N9K-C9336C-FX2
                                Switch Network: cluster-network
                              Software Version: Cisco Nexus
Operating System (NX-OS) Software, Version 9.3(7)
                     Reason For Not Monitoring: None <---- displays
when SNMP settings are valid
                      Source Of Switch Version: CDP/ISDP
                                Is Monitored ?: true
                   Serial Number of the Device: OTFCU3826001C
                                   RCF Version: v1.8X2 for
Cluster/HA/RDMA
cluster1::*>
```

NVIDIA - CLI 5.4

Configure an SNMPv3 username SNMPv3_USER on NVIDIA SN2100 switches running CLI 5.4:

• For no authentication:

net add snmp-server username SNMPv3 USER auth-none

• For MD5/SHA authentication:

```
net add snmp-server username SNMPv3_USER [auth-md5|auth-sha] AUTH-
PASSWORD
```

• For MD5/SHA authentication with AES/DES encryption:

```
net add snmp-server username SNMPv3_USER [auth-md5|auth-sha] AUTH-
PASSWORD [encrypt-aes|encrypt-des] PRIV-PASSWORD
```

The following command configures an SNMPv3 username on the ONTAP side:

```
security login create -user-or-group-name SNMPv3_USER -application snmp
-authentication-method usm -remote-switch-ipaddress ADDRESS
```

The following command establishes the SNMPv3 username with CSHM:

system switch ethernet modify -device DEVICE -snmp-version SNMPv3 -community-or-username SNMPv3 USER

Steps

1. Set up the SNMPv3 user on the switch to use authentication and encryption:

net show snmp status

```
cumulus@sw1:~$ net show snmp status
Simple Network Management Protocol (SNMP) Daemon.
_____ ____
Current Status
                               active (running)
                              enabled
Reload Status
Listening IP Addresses
                              all vrf mgmt
Main snmpd PID
                               4318
Version 1 and 2c Community String Configured
Version 3 Usernames
                              Not Configured
_____ ____
cumulus@sw1:~$
cumulus@sw1:~$ net add snmp-server username SNMPv3User auth-md5
<password> encrypt-aes <password>
cumulus@sw1:~$ net commit
--- /etc/snmp/snmpd.conf 2020-08-02 21:09:34.686949282 +0000
+++ /run/nclu/snmp/snmpd.conf 2020-08-11 00:13:51.826126655 +0000
00 -1,26 +1,28 00
# Auto-generated config file: do not edit. #
agentaddress udp:@mgmt:161
agentxperms 777 777 snmp snmp
agentxsocket /var/agentx/master
 createuser _snmptrapusernameX
+createuser SNMPv3User MD5 <password> AES <password>
 ifmib max num ifaces 500
iquerysecname snmptrapusernameX
master agentx
monitor -r 60 -o laNames -o laErrMessage "laTable" laErrorFlag != 0
pass -p 10 1.3.6.1.2.1.1.1 /usr/share/snmp/sysDescr pass.py
pass persist 1.2.840.10006.300.43
```

```
/usr/share/snmp/ieee8023 lag pp.py
pass persist 1.3.6.1.2.1.17 /usr/share/snmp/bridge pp.py
pass persist 1.3.6.1.2.1.31.1.1.1.18
/usr/share/snmp/snmpifAlias pp.py
pass persist 1.3.6.1.2.1.47 /usr/share/snmp/entity pp.py
pass persist 1.3.6.1.2.1.99 /usr/share/snmp/entity sensor pp.py
pass persist 1.3.6.1.4.1.40310.1 /usr/share/snmp/resq pp.py
pass persist 1.3.6.1.4.1.40310.2
/usr/share/snmp/cl drop cntrs pp.py
pass persist 1.3.6.1.4.1.40310.3 /usr/share/snmp/cl poe pp.py
pass persist 1.3.6.1.4.1.40310.4 /usr/share/snmp/bgpun pp.py
pass persist 1.3.6.1.4.1.40310.5 /usr/share/snmp/cumulus-status.py
pass persist 1.3.6.1.4.1.40310.6 /usr/share/snmp/cumulus-sensor.py
pass persist 1.3.6.1.4.1.40310.7 /usr/share/snmp/vrf bgpun pp.py
+rocommunity cshm1! default
rouser snmptrapusernameX
+rouser SNMPv3User priv
 sysobjectid 1.3.6.1.4.1.40310
sysservices 72
-rocommunity cshm1! default
net add/del commands since the last "net commit"
User Timestamp
                                   Command
_____
____
SNMPv3User 2020-08-11 00:13:51.826987 net add snmp-server username
SNMPv3User auth-md5 <password> encrypt-aes <password>
cumulus@sw1:~$
cumulus@sw1:~$ net show snmp status
Simple Network Management Protocol (SNMP) Daemon.
_____ __ ___
Current Status
                                active (running)
Reload Status
                               enabled
Listening IP Addresses
                              all vrf mgmt
Main snmpd PID
                               24253
Version 1 and 2c Community String Configured
Version 3 Usernames
                               Configured <---- Configured
here
-----
                                _____
```

```
cumulus@sw1:~$
```

2. Set up the SNMPv3 user on the ONTAP side:

security login create -user-or-group-name SNMPv3User -application snmp -authentication-method usm -remote-switch-ipaddress 10.231.80.212

```
cluster1::*> security login create -user-or-group-name SNMPv3User
-application snmp -authentication-method usm -remote-switch
-ipaddress 10.231.80.212
Enter the authoritative entity's EngineID [remote EngineID]:
Which authentication protocol do you want to choose (none, md5, sha,
sha2-256)
[none]: md5
Enter the authentication protocol password (minimum 8 characters
long):
Enter the authentication protocol password again:
Which privacy protocol do you want to choose (none, des, aes128)
[none]: aes128
Enter privacy protocol password (minimum 8 characters long):
```

3. Configure CSHM to monitor with the new SNMPv3 user:

Enter privacy protocol password again:

system switch ethernet show-all -device "sw1 (b8:59:9f:09:7c:22)"
-instance

```
cluster1::*> system switch ethernet show-all -device "sw1
(b8:59:9f:09:7c:22) " -instance
                                   Device Name: sw1
(b8:59:9f:09:7c:22)
                                    IP Address: 10.231.80.212
                                  SNMP Version: SNMPv2c
                                 Is Discovered: true
DEPRECATED-Community String or SNMPv3 Username: -
           Community String or SNMPv3 Username: cshm1!
                                  Model Number: MSN2100-CB2FC
                                Switch Network: cluster-network
                              Software Version: Cumulus Linux
version 4.4.3 running on Mellanox Technologies Ltd. MSN2100
                     Reason For Not Monitoring: None
                      Source Of Switch Version: LLDP
                                Is Monitored ?: true
                   Serial Number of the Device: MT2110X06399 <----
serial number to check
                                  RCF Version: MSN2100-RCF-v1.9X6-
Cluster-LLDP Aug-18-2022
cluster1::*>
cluster1::*> system switch ethernet modify -device "sw1
(b8:59:9f:09:7c:22)" -snmp-version SNMPv3 -community-or-username
SNMPv3User
```

4. Verify that the serial number to be queried with the newly created SNMPv3 user is the same as detailed in the previous step after the CSHM polling period has completed.

system switch ethernet polling-interval show

```
cluster1::*> system switch ethernet polling-interval show
         Polling Interval (in minutes): 5
cluster1::*> system switch ethernet show-all -device "sw1
(b8:59:9f:09:7c:22) " -instance
                                  Device Name: sw1
(b8:59:9f:09:7c:22)
                                    IP Address: 10.231.80.212
                                  SNMP Version: SNMPv3
                                 Is Discovered: true
DEPRECATED-Community String or SNMPv3 Username: -
           Community String or SNMPv3 Username: SNMPv3User
                                  Model Number: MSN2100-CB2FC
                                Switch Network: cluster-network
                              Software Version: Cumulus Linux
version 4.4.3 running on Mellanox Technologies Ltd. MSN2100
                     Reason For Not Monitoring: None
                      Source Of Switch Version: LLDP
                                Is Monitored ?: true
                   Serial Number of the Device: MT2110X06399 <----
serial number to check
                                   RCF Version: MSN2100-RCF-v1.9X6-
Cluster-LLDP Aug-18-2022
```

Check switch health

Health check overview

Health monitors proactively monitor certain critical conditions in your cluster and raise alerts if they detect a fault or risk.

To view the currently raised Ethernet switch health monitor alerts, run the command: system health alert show -monitor ethernet-switch

To view the available Ethernet switch health monitor alerts, run the command: system health alert definition show -monitor ethernet-switch

Troubleshoot alerts

Alerts are raised if a fault, risk, or critical condition is detected for an Ethernet switch in your cluster.

If there are raised alerts, the system health status reports a degraded status for the cluster. The alerts raised include the information that you need to respond to degraded system health.

To view the available Ethernet switch health monitor alerts, run the command: system health alert definition show -monitor ethernet-switch

See the Knowledge Base article Switch Health Monitor Alert Resolution Guide for advanced resolution details of alerts.

Log collection

Log collection overview

With log collection set up, you can enable an hourly collection of periodic data that is collected by AutoSupport, and request detailed support logs.

See Configure log collection for further details.

Troubleshoot log collection

If you encounter any of the following error statuses reported by the log collection feature (visible in the output of the system switch ethernet log show command), try the corresponding debug steps:

Log collection error status	Resolution
RSA keys not present	Regenerate ONTAP SSH keys.
Switch password error	Verify credentials, test SSH connectivity, and regenerate ONTAP SSH keys. Review the switch documentation or contact NetApp support for instructions.
ECDSA keys not present for FIPS	If FIPS mode is enabled, ECDSA keys need to be generated on the switch before retrying.
Pre-existing log found	Remove the previous log collection file on the switch.
Switch dump log error	Ensure the switch user has log collection permissions. Refer to the prerequisites above.



If the resolution details do not work, contact NetApp support.

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