# Configure the Cluster Manager CEE to Prevent a Node-Exporter Disc Full Condition

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#### Introduction

This document describes the node-exporter disk full problem noticed in a user's network.

### Background

When an audit of the Cluster Manager Common Execution Environment (CEE) is performed, the audit result indicates the node-exporter disk is full.

# Problem

A critical severity alert condition exists because a disk full condition is projected to occur in the next 24 hours, this alert was noticed on CEE:

"Device /dev/sda3 of node-exporter cee03/node-exporter-4dd4a4dd4a is projected to be full within the next 24 hours"

# Analysis

The alert reported is on the CEE that tracks hardware issues for the rack and projects the full disk condition to occur in the next 24 hours.

```
cisco@deployer-cm-primary:~$ kubectl get pods -A -o wide | grep node
cee03 node-exporter-4dd4a4dd4a 1/1 Running 1 111d 10.10.1.1 deployer-cm-primary <none> <none>
root@deployer-cm-primary:/# df -h
Filesystem Size Used Avail Use% Mounted on
overlay 568G 171G 368G 32% /
tmpfs 64M 0 64M 0% /dev
tmpfs 189G 0 189G 0% /sys/fs/cgroup
tmpfs 189G 0 189G 0% /host/sys/fs/cgroup
/dev/sda1 9.8G 3.5G 5.9G 37% /host/root
udev 189G 0 189G 0% /host/root/dev
tmpfs 189G 0 189G 0% /host/root/dev
tmpfs 189G 0 189G 0% /host/root/dev
tmpfs 189G 0 189G 0% /host/root/dev/shm
tmpfs 38G 15M 38G 1% /host/root/run
```

# tmpfs 5.0M 0 5.0M 0% /host/root/run/lock /dev/sda3 71G 67G 435M 100% /host/root/var/log When an audit is performed, it appears to fill up the /dev/sda3 disc.

root@deployer-cm-primary:/host/root/var/log# du -h --max-depth=1
76M ./sysstat
16K ./lost+found
4.0K ./containers
4.0K ./landscape
9.3M ./calico
1.1G ./apiserver
808K ./pods
5.6G ./journal
60G ./audit
36K ./apt
67G .

A check of the audit shows it keeps the logs and as a result, the server condition of exporter-node disk full is likely to occur.

cisco@deployer-cm-primary:~\$ sudo cat /etc/audit/auditd.conf # # This file controls the configuration of the audit daemon # local\_events = yes write\_logs = yes log\_file = /var/log/audit/audit.log  $\log_{group} = adm$ log\_format = RAW flush = INCREMENTAL\_ASYNC freq = 50max\_log\_file = 8  $num_logs = 5$  $priority_boost = 4$ disp\_qos = lossy dispatcher = /sbin/audispd name\_format = NONE ##name = mydomain max\_log\_file\_action = keep\_logs  $space_left = 75$ space\_left\_action = email verify\_email = yes action\_mail\_acct = root admin\_space\_left = 50 admin\_space\_left\_action = halt disk\_full\_action = SUSPEND disk\_error\_action = SUSPEND use\_libwrap = yes ##tcp\_listen\_port = 60 tcp\_listen\_queue = 5  $tcp_max_per_addr = 1$ ##tcp\_client\_ports = 1024-65535 tcp\_client\_max\_idle = 0 enable\_krb5 = no krb5\_principal = auditd ##krb5\_key\_file = /etc/audit/audit.key distribute\_network = no cisco@deployer-cm-primary:~\$

#### Solution

Preform the command code listed next, on both the deployer-cm-primary and the deployer-cm-secondary to remediate the potential node-exporter disk full condition.

sudo vim /etc/audit/auditd.conf

Then, use the code listed next to change the inside file from keep\_logs to rotate.

max\_log\_file\_action = rotate
After the code is changed, restart the service.

sudo systemctl restart auditd.service Verify the critical alert is removed.