Forcepoint

Forcepoint Data Classification

Powered by Getvisibility

Prerequisites for K3s on RHEL/CentOS/Oracle Linux

Forcepoint

Report

Table of Contents

Prerequisites for K3s on RHEL/CentOS/Oracle Linux

firewalld/fapolicyd

→ It is recommended to disable <u>firewalld</u> and <u>fapolicyd</u>:

```
systemctl disable firewalld --now

systemctl disable fapolicyd.service
```

nm-cloud-setup

→ If enabled, it is required to disable **nm-cloud-setup** and **reboot** the node:

```
systemctl disable nm-cloud-setup.service nm-cloud-setup.timer

reboot
```
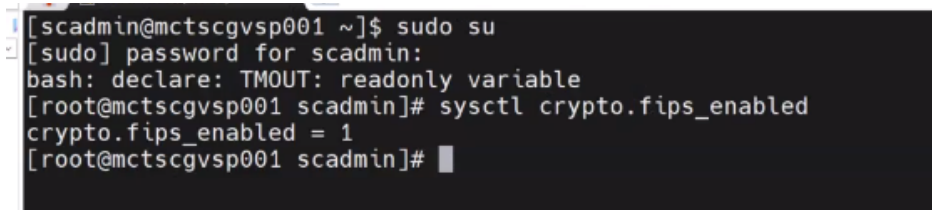
Make sure noexec is not used for dedicated rancher partition

→ If you are using a dedicated partition (`/var/lib/rancher`) to run K3s make sure to **NOT** have mounted it using `noexec` flag inside `/etc/fstab` file.

disable fips mode

→ If you have <u>FIPS mode</u> enabled is necessary to disable it otherwise some of our workloads running in K3s will crash at startup.

→ To check if FIPS is enabled, run the following command:
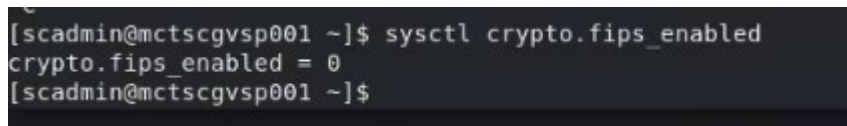
```
sysctl crypto.fips_enabled
```


figure 1.

→ To disable, refer to the steps as mentioned in below article:

https://www.thegeekdiary.com/?s=fips

figure 2.

iptables

RHEL like systems have buggy version of iptables 1.8.4 which is causing issues with firewall, service routing and external network reachability as well as performance issues. It is required to configure k3s to use bundled version by modifying k3s service (same for

k3s-agent service on worker nodes in HA deployments) file and adding `--prefer-bundled-bin` option to service's cmd and restarting service.

```
~$ cat  /etc/systemd/system/k3s.service

ExecStart=/usr/local/bin/k3s \

    server \

        '--node-name=local-01' \

        '--prefer-bundled-bin' \




~$ sudo systemctl daemon-reload

~$ sudo systemctl stop k3s

~$ sudo systemctl start k3s

~$
```

If this change is done on existing system reboot is recommended to clear duplicate iptables rules.

```
~$ sudo reboot
```

More details, see Known Issues-K3s.

Forcepoint

forcepoint.com/contact

About Forcepoint

Forcepoint is the leading user and data protection cybersecurity company, entrusted to safeguard organizations while driving digital transformation and growth. Forcepoint's humanly-attuned solutions adapt in real-time to how people interact with data, providing secure access while enabling employees to create value. Based in Austin, Texas, Forcepoint creates safe, trusted environments for thousands of customers worldwide.