## MOHAMED MAAHIJ N – 22CSL257 | KONGU ENGINEERING COLLEGE

### **Prometheus Installation:**

```
Username Creation:
      sudo useradd \
      --system \
      --no-create-home \
      --shell /bin/false Prometheus
Command:
wget
https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-
2.47.1.linux-amd64.tar.gz
tar -xvf prometheus-2.47.1.linux-amd64.tar.gz
sudo mkdir -p /data /etc/prometheus
cd prometheus-2.47.1.linux-amd64/
sudo mv prometheus promtool /usr/local/bin/
sudo mv consoles/ console_libraries/ /etc/prometheus/
sudo mv prometheus.yml /etc/prometheus/prometheus.yml
sudo chown -R prometheus:prometheus /etc/prometheus//data/
cd
rm -rf prometheus-2.47.1.linux-amd64.tar.gz
prometheus --version
sudo vim /etc/systemd/system/prometheus.service
```

```
Starting tunnel for service my-serv
                                                                                                                                                           http://127.0.0.1:45403
                                                  my-service
http://192.168.49.2:30024
                                                   NAME
                                                                                                                                                         http://127.0.0.1:36193
   Opening service default/my-service in default browser...

http://27.0.9.1:36193

Because you are using a Docker driver on linux, the terminal needs to be open to run it.

Stopping tunnel for service my-service.

mahij@MOHAMEDMAAHIJ:-$ kubectl port-forward svc/my-service 9000:9000

orwarding from 127.0.0.1:9000 -> 80800

Orwarding from [::1]:9000 -> 80800

Cmashij@MOHAMEDMAAHIJ:-sudo useradd \
--system
        maahi]@MOHAMEDMAAHIJ:~sudo user;
--system \
--no-create-home \
--shell /bin/false prometheus
udo] password for maahij:
                                                                                                                      prefix directory where are located the /etc/* files
login shell of the new account
user ID of the new account
create a group with the same name as the user
use a specific SEUSER for the SELinux user mapping
Use the extra users database
            hij@MOHAMEDMAAHIJ:-$ sudo useradd \
--system \
--no-create-home \
--shell /bin/fals prometheus
hiigMOHAMEDMAAHIJ:-$
   --shell/bin/false prometheus
aahijg@NDAMEDMAAHIJ:=$ sget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.g2
aar -xvf prometheus-2.47.1.linux-amd64.tar.g2
udo mkdir -p /data /etc/prometheus
d prometheus-2.47.1.linux-amd64| tar.g2
udo mv prometheus-2.47.1.linux-amd64| tar.g2
udo mv prometheus-2.47.1.linux-amd64| tar.g2
udo mv prometheus-prometheus (etc/prometheus/
udo mv prometheus prometheus (etc/prometheus/
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udo mv prometheus-prometheus (etc/prometheus/
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                etheus-2.47.1.linux-amd64.tar.gz 100%[=======================
                                                                                                                                                                                                                                                                                                                                                                         .
1025-03-22 06:34:12 (15.4 MB/s) - 'prometheus-2.47.1.linux-amd64.tar.gz' saved [95713066/95713066]
            metheus-2.47.1.linux-amd64/
```

Prometheus.sevice:

[Unit]

Description=Prometheus

Wants=network-online.target

After=network-online.target

StartLimitIntervalSec=500

StartLimitBurst=5

[Service]

User=prometheus

Group=prometheus

Type=simple

Restart=on-failure

RestartSec=5s

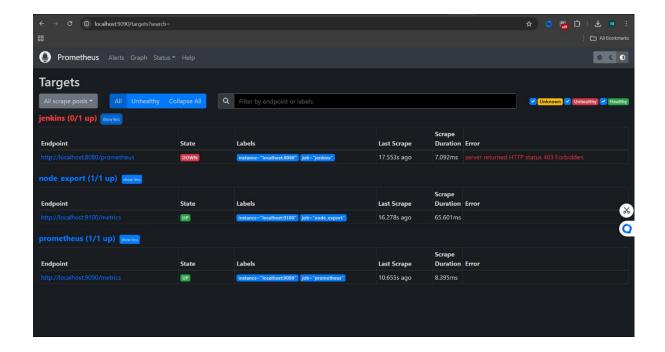
ExecStart=/usr/local/bin/prometheus \

- --config.file=/etc/prometheus/prometheus.yml \
- --storage.tsdb.path=/data \
- --web.console.templates=/etc/prometheus/consoles \
- --web.console.libraries=/etc/prometheus/console\_libraries \
- --web.listen-address=0.0.0.0:9090 \
- --web.enable-lifecycle

## [Install]

## WantedBy=multi-user.target

```
Mar 22 86:48:18 NOHAMEDMAAHIJ prometheus[123599]: ts=2025-03-22786:40:10.580Z caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chun ks replay completed" duration=1,374ps
Mar 22 86:49:18 NOHAMEDMAAHIJ prometheus[123599]: ts=2025-03-22786:40:19.580Z caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take a still a stil
```



# Node Exporter:

Commands for installation:

sudo mv \

node\_exporter-1.6.1.linux-amd64/node\_exporter \

/usr/local/bin/

rm -rf node\_exporter\*

Node exporter file:

[Unit]

Description=Node Exporter

Wants=network-online.target

After=network-online.target

StartLimitIntervalSec=500

StartLimitBurst=5

[Service]

User=node\_exporter

Group=node\_exporter

Type=simple

```
Restart=on-failure
```

RestartSec=5s

ExecStart=/usr/local/bin/node exporter \

--collector.logind

[Install]

WantedBy=multi-user.target

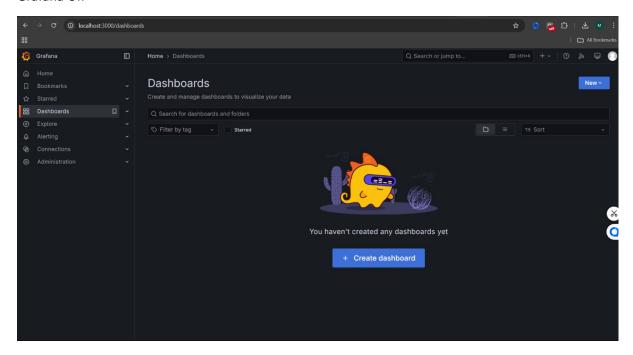
Service check : sudo systemctl enable node\_exporter sudo systemctl start node\_exporter sudo systemctl status node\_exporter journalctl -u node\_exporter -f --no-pager

Reload Promotheus: curl -X POST <a href="http://localhost:9090/-/reload">http://localhost:9090/-/reload</a>

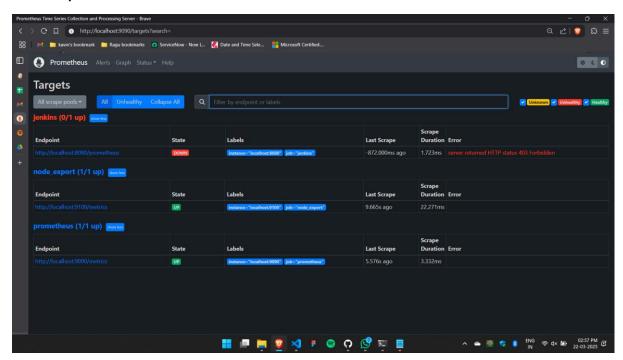
### **Grafana:**

sudo apt-get install -y apt-transport-https software-properties-common
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list
sudo apt-get update
sudo apt-get -y install grafana
sudo systemctl enable grafana-server
sudo systemctl start grafana-server

#### Grafana UI:

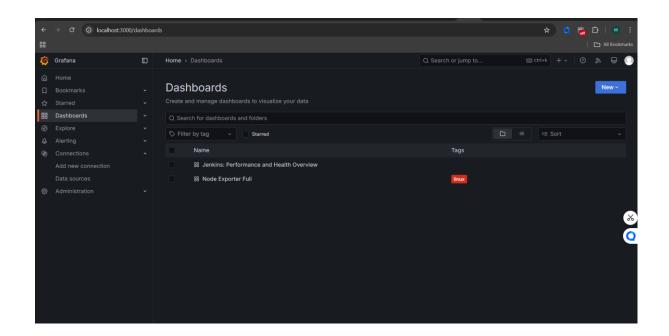


## Status in promethues:

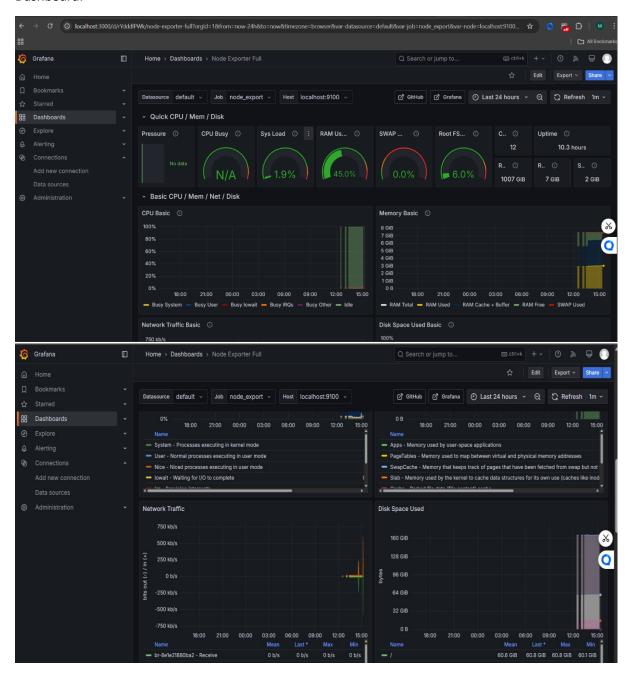


#### **Metrics in Prometheus:**

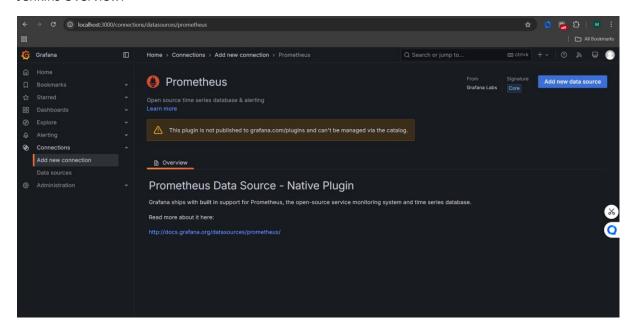
## Node Exporter:



#### Dashboard:



#### Jenkins Overview:



#### Dashboard:

