RITHIK S – 22CSL260 | 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
```

```
prometheus-2.47.1.linux-amd64/consoles/prometheus.html
prometheus-2.47.1.linux-amd64/consoles/prometheus-overview.html
prometheus-2.47.1.linux-amd64/consoles/node-cpu.html
prometheus-2.47.1.linux-amd64/consoles/index.html
prometheus-2.47.1.linux-amd64/consoles/node.html
prometheus-2.47.1.linux-amd64/consoles/node-disk.html
prometheus-2.47.1.linux-amd64/consoles/node-overview.html
prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.47.1.linux-amd64/prometheus-2.
my: cannot stat 'console_libraries/': No such file or directory
ragu_ubuntu@Ravin:~/prometheus-2.47.1.linux-amd64 $ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.lin
ux-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-prometheus
cd prometheus-2.47.1.linux-amd64/
sudo mv prometheus-prometheus/prometheus/
sudo mv prometheus-prometheus/prometheus/
sudo mv prometheus-ynd /etc/prometheus/
sudo mv prometheus-ynd /etc/prometheus/
sudo nv prometheus-ynd /etc/prometheus/
sudo chown ~R prometheus-prometheus/
sudo nv prometheus-ynd /etc/prometheus/
sudo nv prometheus-ynd /etc/prometheus-ynd /etc/prometheus-
                                                             ■ Image: The second of the

    go_ubuntu@Kavin: ~/prom × + ∨

  rm -rf prometheus-2.47.1.linux-amd64.tar.gz
prometheus --version
sudo vim /etc/systemd/system/prometheus.service
prometheus, version 2.47.1 (branch: HEAD, revision: c4d1a8beff37cc004f1dc4ab9d2e73193f51aaeb)
build user: root@48293308363be
build date: 20231004-110:31:16
go version: gol.21.1
platform: linux/amd64
tags: netgo,builtinassets,stringlabels
    go version: gol.21.1
platform: linux/amd64
tags: netgo,builtinassets,stringlabels
ragu_ubuntu@Kavin: $ to
deploy.yaml docker-compose.yaml ns.yaml pod-ns.yaml pod.yaml prometheus-2.47.1.linux-amd64 rs.yaml
ragu_ubuntu@Kavin: $ cd
.aws/
ragu_ubuntu@Kavin: $ cd
.aws/ .docker/
.azure/ .jenkins/
.cache/ ragu_ubuntu@Kavin: $ cd prometheus-2.47.1.linux-amd64/
ragu_ubuntu@Kavin: $ cd prometheus-2.47.1.linux-amd64/
ragu_ubuntu@Kavin: /prometheus-2.47.1.linux-amd64 $ ld
ld: no input files
ragu_ubuntu@Kavin: /prometheus-2.47.1.linux-amd64 $ ragu_ubuntu@Kavin: /prometheus-2.47.1.linux-amd64 $ ragu_ubuntu@Kavin: /prometheus-2.47.1.linux-amd64 $ ragu_ubuntu@Kavin: /prometheus-2.47.1.linux-amd6-2.47.1.linux-amd6-2.47.1.linux-amd6-2.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.linux-amd6-3.47.1.l
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.local/
.minikube/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      prometheus-2.47.1.linux-amd64/
                                                                                                               Mavin: -/prometheus-2.47.1.linux-amd64 prometheus-2.47.1.linux-amd64.tar.gz
prometheus-2.47.1.linux-amd64/
prometheus-2.47.1.linux-amd64/
mavin: -/prometheus-2.47.1.linux-amd64/
prometheus-2.47.1.linux-amd64/
mavin: -/prometheus-2.47.1.linux-amd64/
mavin: -/prometheus-2.47.1.linux-amd6
    LICENSE
    ragu_ubuntu@Kavin:~/prometheus-2.47.1
prometheus-2.47.1.linux-amd64/
        4/prometheus-2.47.1.linux-amd6.$ sudo vim /etc/systemd/system/prometheus.service
4/prometheus-2.47.1.linux-amd6.$
```

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

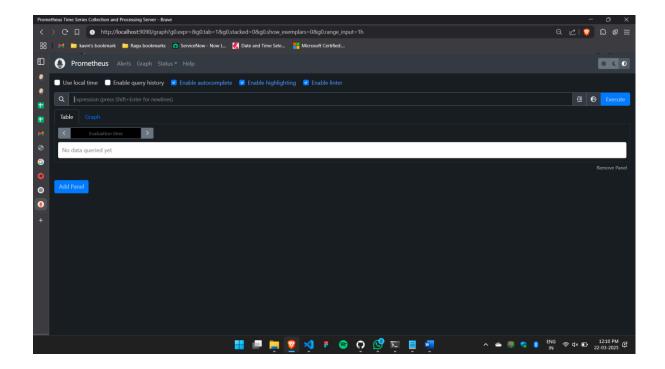
ExecStart=/usr/local/bin/prometheus \

- --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

```
platform: Linux/am660
tags: netgo, bulltinassets, stringlabels
ragu_ubuntugRavin:-/prowetheus-2.407.1.linux-am660/prowetheus-2.407.1.linux-am660/s sudo vim /etc/systemd/system/prometheus.service
ragu_ubuntugRavin:-/prowetheus-2.407.1.linux-am660/prowetheus-2.407.1.linux-am660/s cd
ragu_ubuntugRavin:-/s
ragu_ubuntugRavin:-/s
deploy_yam1_docker-compose.yam1_ns.yam1_pod-ns.yam1_pod-yam1_prowetheus-2.407.1.linux-am660/s cd
ragu_ubuntugRavin:-/s
ragu_ubuntugRavin
```



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

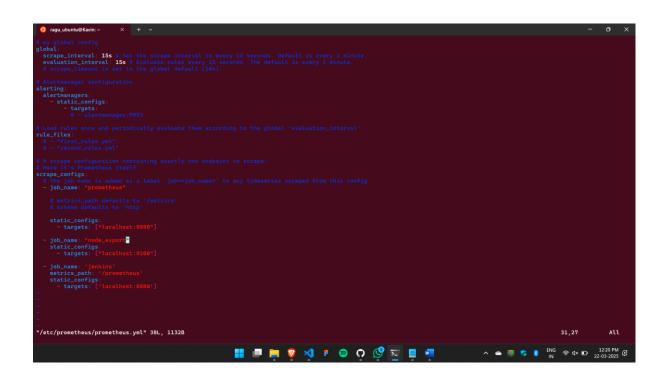
ExecStart=/usr/local/bin/node_exporter \

--collector.logind

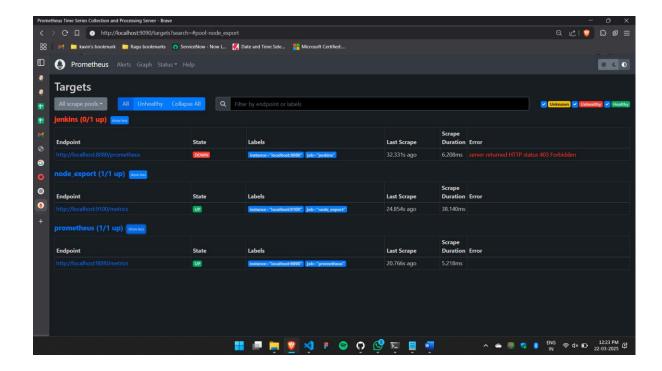
[Install]

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 http://localhost:9090/-/reload



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

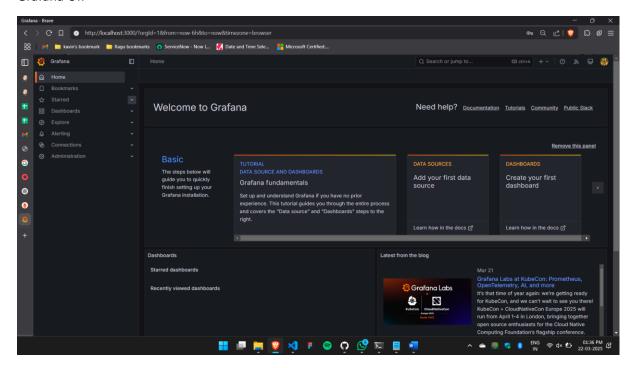
sudo apt-get -y install grafana

sudo systemctl enable grafana-server

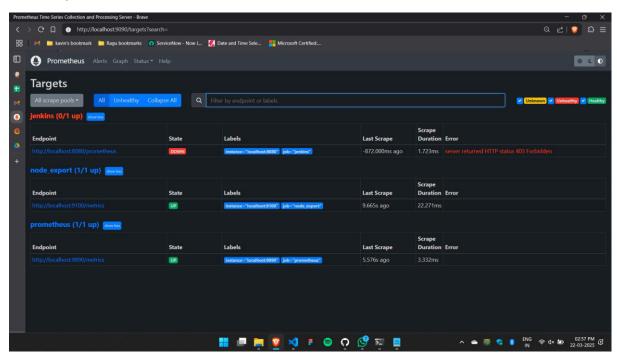
sudo systemctl start grafana-server

sudo systemctl status grafana-server

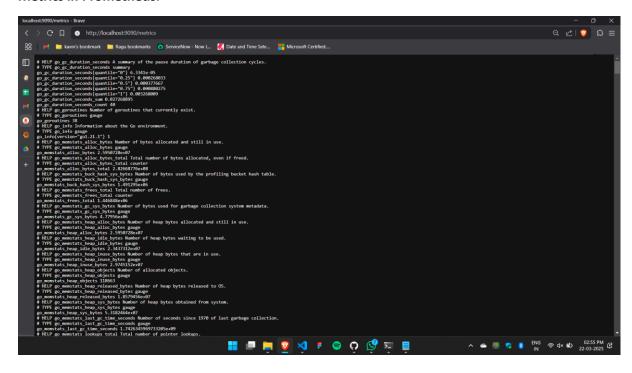
Grafana UI:



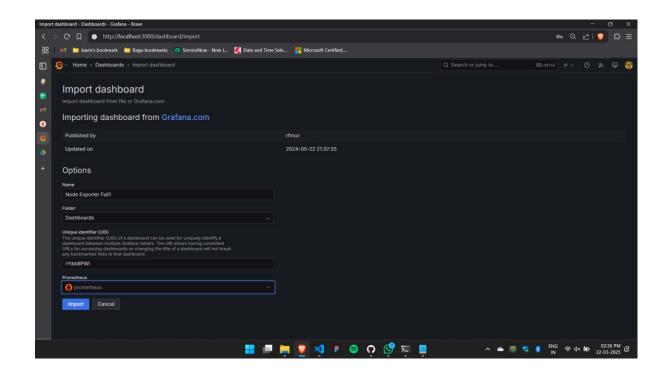
Status in promethues:



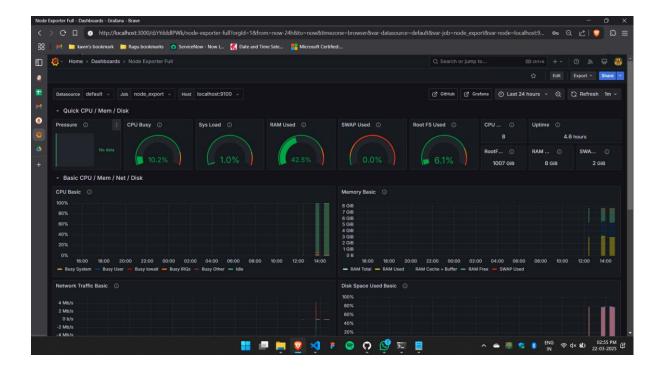
Metrics in Prometheus:

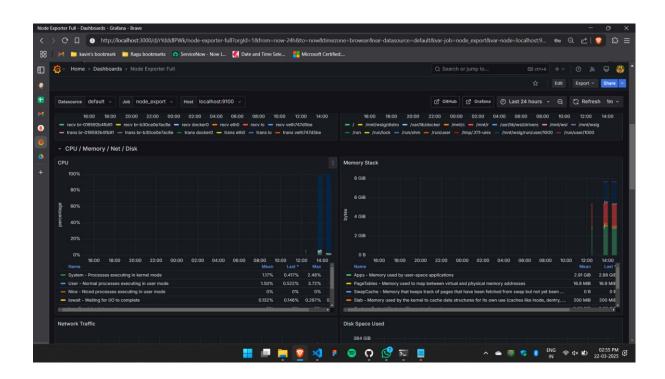


Node Exporter:

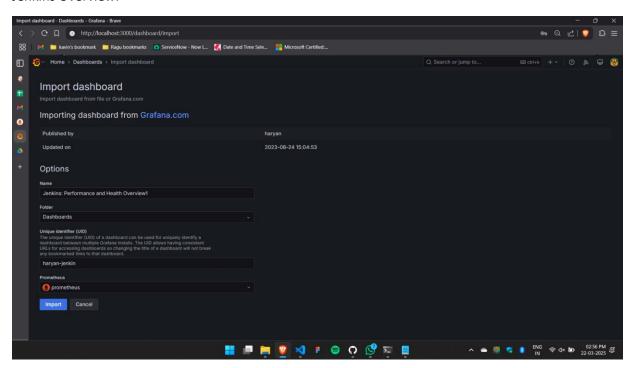


Dashboard:





Jenkins Overview:



Dashboard:

