RAGULANDIRAN M – 22CSR157 || 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.example
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/prome
  prometheus 2.4....
**C[A
gzip: stdin: unexpected end of file
tar: Unexpected EOF in archive
tar: Unexpected EOF in archive
tar: Error is not recoverable: exiting now
**C[Amv: cannot stat 'prometheus': No such file or directory
mv: cannot stat 'console_libraries': No such file or directory
mv: cannot stat 'console_libraries': No such file or directory
**ranu ubuntu@Kavin:*/pxometheus-2.47.1.timux-amd6!$ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.lin
my: cannot stat 'console_libraries': No such file or directory
ragu_ubuntu@Kavin:~/promotheus-2.47.1.tinux-amd6' $ 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' sudo my prometheus prometheus promotheus
cd prometheus-2.47.1.linux-amd64'
sudo my prometheus promotheus promotheus
description of prometheus promotheus promotheus
sudo my prometheus promotheus promotheus/prometheus/
sudo my prometheus promotheus/prometheus/prometheus/
sudo my prometheus.yml /etc/prometheus/prometheus/
sudo my prometheus.promotheus/prometheus/prometheus/
sudo promotheus.yml /etc/prometheus/prometheus/
sudo promotheus.yml /etc/prometheus/prometheus/prometheus/
sudo promotheus.yml /etc/prometheus/prometheus/
sudo promotheus.yml /etc/prometheus/prometheus/
sudo promotheus.yml /etc/prometheus/
sudo promotheus-yml /etc/prometheus/
sudo promotheus-yml /etc/prometheus/
sudo promotheus-yml /etc/prometheus/
sudo promotheus-yml /etc/prometheus/
releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
Connecting to github.com (github.com) / 20.207.73.82 | 443... connected.

HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-12e5bb/6838912/f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Expire
s308&X-Amz-Signature-ed575488b40968463d463aa828b8b4c87cfb686833d5f52calcos38b4894684683921/f2bb7b37-63a0-428b-adb5-0294482fd7
437X-Amz-Signature-ed575488b40968463d46saa88b8b4c87cfb686833d5f52calcos389b488946X-Amz-Signature-ed57b48b4964863d45aa888b8b4c87cfb686835d5f52calcos389b488946X-Amz-Signature-ed57b48b4968463d45aa888b8b4c87cfb686835d5f52calcos389b488946X-Amz-Signature-ed57b48b4964863d45aa888b8b4c87cfb686835df57calcase-asset-12e5bb/6888921/f9b7b37-63a0-428b-adb5-0294482fd7
437X-Amz-Algorithm=AM

    g ragu_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: c4dla8beff37cc004f1dc4ab9d2e73193f51aaeb)
build user: root@4829330363be
build date: 20231004-10:31:16
go version: gol.21.1
platform: linux/amd64
tags: netgo,builtinassets,stringlabels
ragu_ubuntu@Kavin:-$ ls
deploy.yaml docker-compose.yaml ns.yaml pod-ns.yaml pod.yaml prometheus-2.47.1.linux-amd64 rs.yaml
ragu_ubuntu@Kavin:-$ cd
.docker/ .landscape/ prometheus-2.48.
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-amd66 $ rm
LICENSE NOTICE prometheus-2.47.1.linux-amd66 $ rm
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    LICENSE
    ragu_ubuntu@Kavin:~/prometheus-2.47.1
prometheus-2.47.1.linux-amd64/
            ragu_ubuntu@Kavin:-/prometheus-2.47.1.tinux-amd64

ragu_ubuntu@Kavin:-/prometheus-2.47.1.linux-amd64

rometheus, version 2.47.1 (branch: HEAD, revision: c4dla8beff37cc004fldc4ab9d2e73193f5laaeb)

build user: root@4829339363be

build date: 20231004-10:31:16

go version: gol.21.1

platform: linux/amd64

tags: netgo, builtinassets, stringlabels

agu_ubuntu@Kavin:-/prometheus-2.47.1.linux-amd64/prometheus-

agu_ubuntu@Kavin:-/prometheus-2.47.1.linux-amd64/prometheus-

agu_ubuntu@Kavin:-/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-amd6
          LICENSE NOTICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                         orometheus-2.47.1.linux-amd64$ sudo vim /etc/systemd/system/prometheus.service
```

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

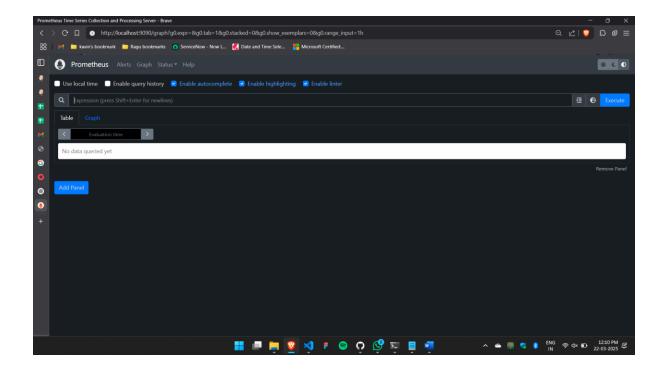
ExecStart=/usr/local/bin/prometheus \

- --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/amd64 netgo, builtinassets, stringlabels regg. Linux/amd64 netgo, builtinassets, buil
```



```
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

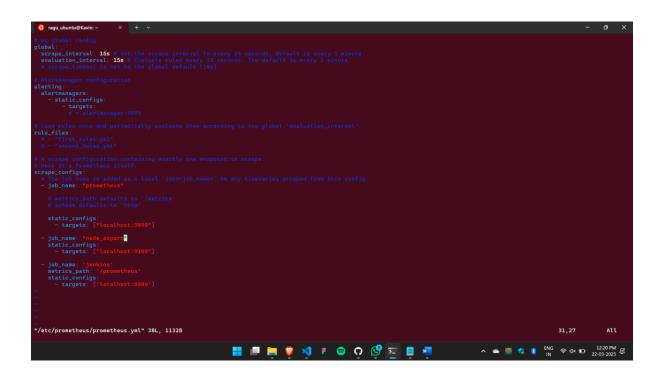
ExecStart=/usr/local/bin/node_exporter \

--collector.logind

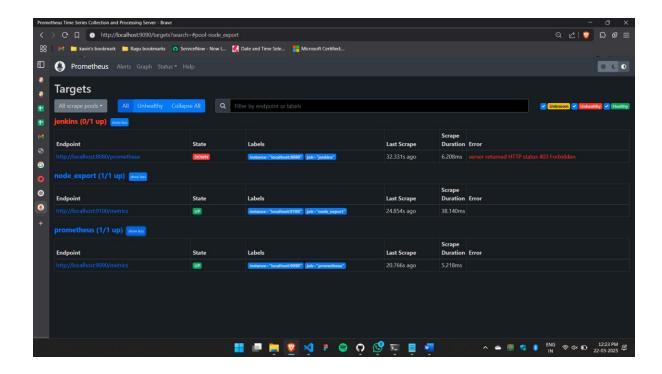
[Install]

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

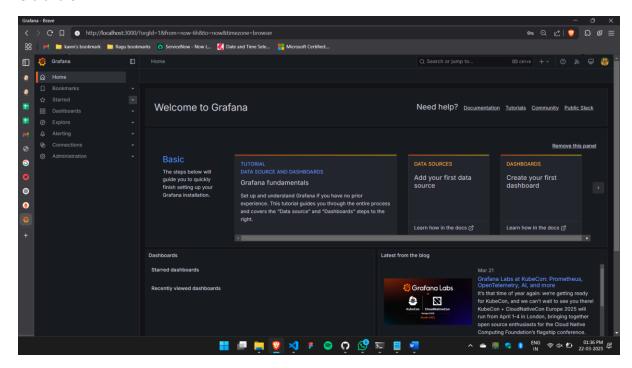
sudo apt-get -y install grafana

sudo systemctl enable grafana-server

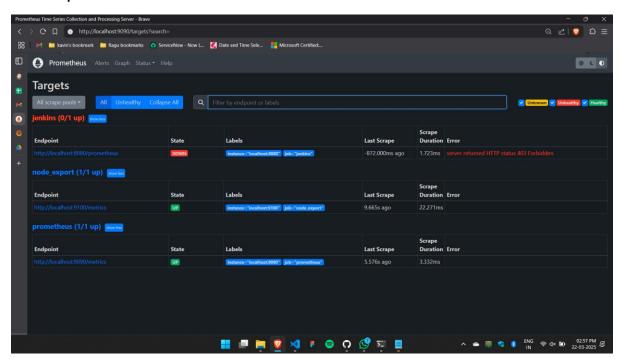
sudo systemctl start grafana-server

sudo systemctl status grafana-server

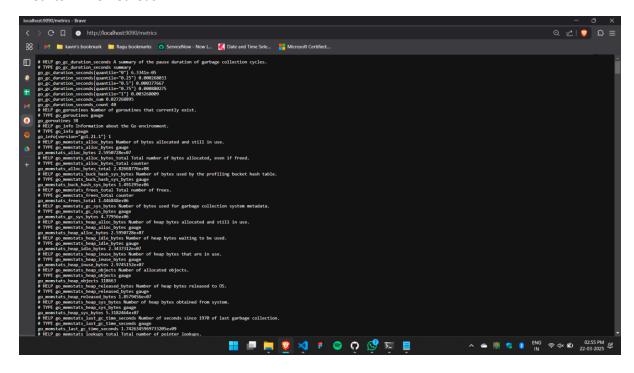
Grafana UI:



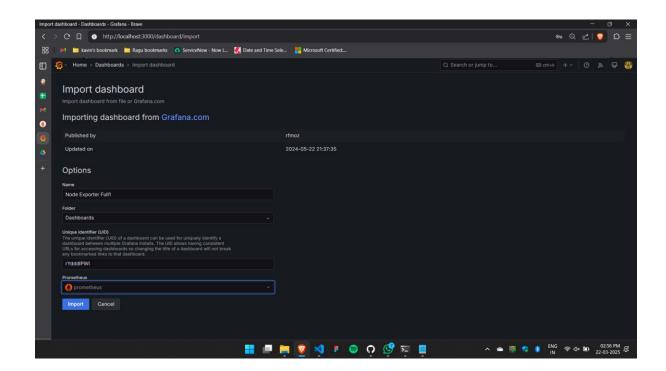
Status in promethues:



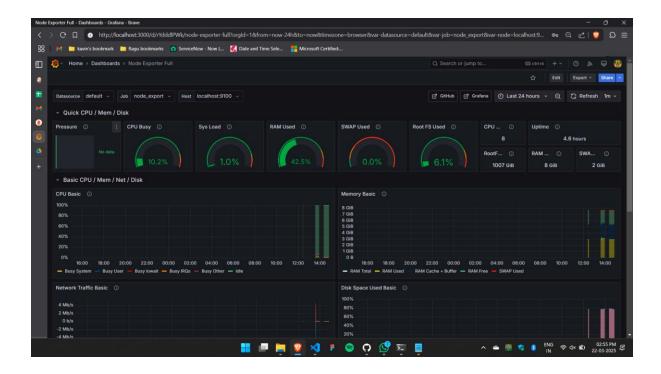
Metrics in Prometheus:

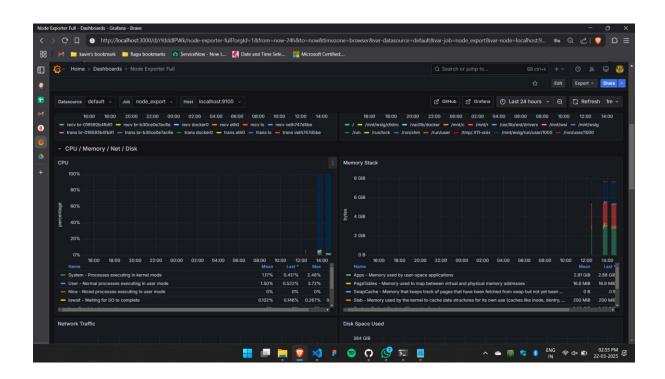


Node Exporter:

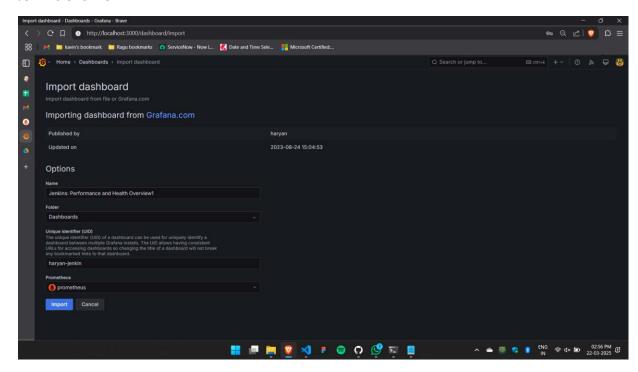


Dashboard:





Jenkins Overview:



Dashboard:

