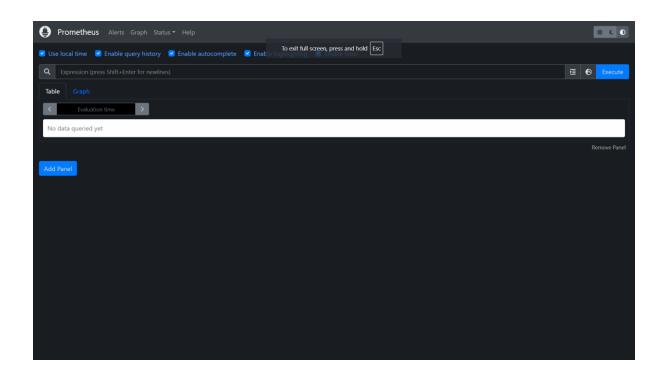
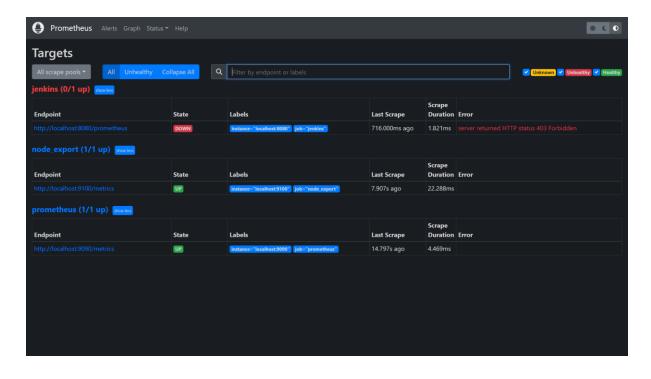
# Prometheus, Node Exporter, and Grafana Setup Documentation

### ## 1. Prometheus Setup

```
### Installing Prometheus
```bash
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 my consoles/ console libraries/ /etc/prometheus/
sudo mv prometheus.yml /etc/prometheus/prometheus.yml
sudo chown -R prometheus:prometheus /etc/prometheus//data/
### Configuring Prometheus Service
Create a systemd service file:
```bash
sudo vim /etc/systemd/system/prometheus.service
Add the following content:
```ini
[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
### Starting Prometheus
```bash
sudo systemctl enable prometheus
sudo systemctl start prometheus
sudo systemctl status prometheus
journalctl -u prometheus -f --no-pager
```

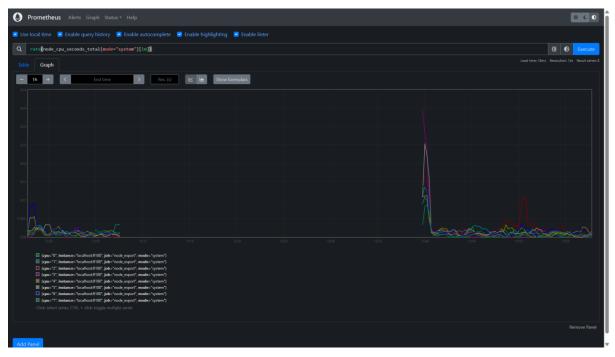




...

rate(node\_cpu\_seconds\_total{mode="system"}[1m])

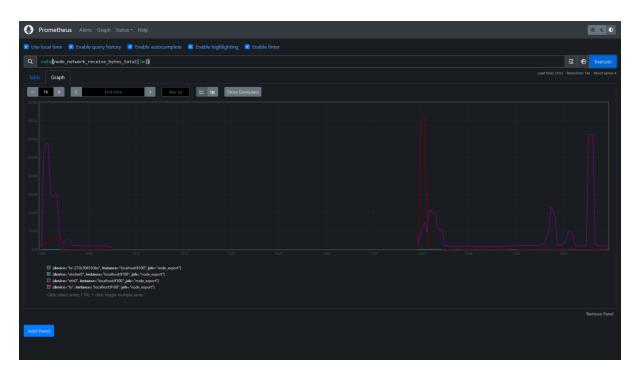
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...

rate(node\_network\_receive\_bytes\_total[1m])

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#### node\_load15

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### ## 2. Node Exporter Setup

```
### Installing Node Exporter
```bash
wget https://github.com/prometheus/node exporter/releases/download/v1.6.1/node exporter-
1.6.1.linux-amd64.tar.gz
tar -xvf node_exporter-1.6.1.linux-amd64.tar.gz
sudo mv node_exporter-1.6.1.linux-amd64/node_exporter /usr/local/bin/
rm -rf node_exporter*
### Configuring Node Exporter Service
Create a systemd service file:
```bash
sudo vim /etc/systemd/system/node exporter.service
Add the following content:
```ini
[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

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### Starting Node Exporter

```bash

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

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#### **Node Exporter**

#### **Prometheus Node Exporter**

Version: (version=1.6.1, branch=HEAD, revision=4a1b77600c1873a8233f3ffb55afcedbb63b8d84)

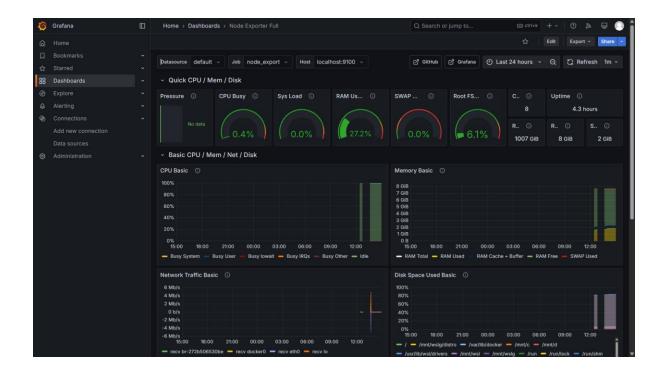
Metrics

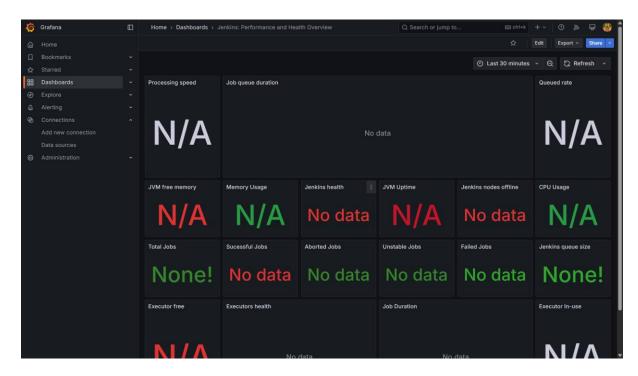
## ## 3. Prometheus Configuration File

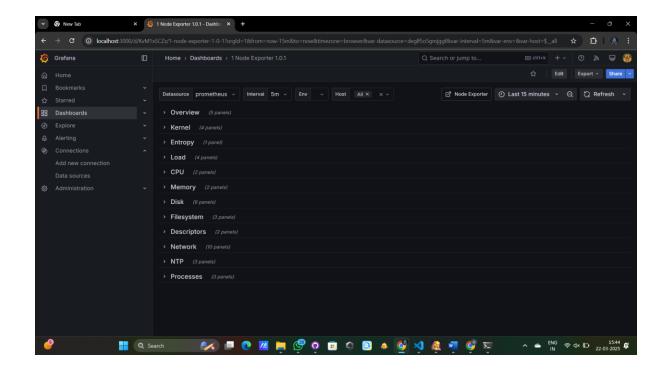
Modify Prometheus configuration: ```bash sudo vim /etc/prometheus/prometheus.yml Add the following content: ```yaml scrape\_configs: - job\_name: node\_export static\_configs: - targets: ["localhost:9100"] - job\_name: 'jenkins' metrics\_path: '/prometheus' static configs: - targets: ['<jenkins-ip>:8080'] Reload Prometheus configuration: ```bash promtool check config /etc/prometheus/prometheus.yml curl -X POST http://localhost:9090/-/reload

### ## 4. Grafana Setup

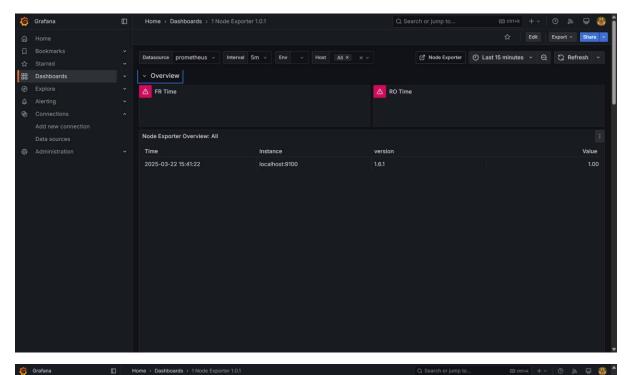
```
### Installing Grafana
""bash
sudo apt-get install -y apt-transport-https software-properties-common
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list
sudo apt-get update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

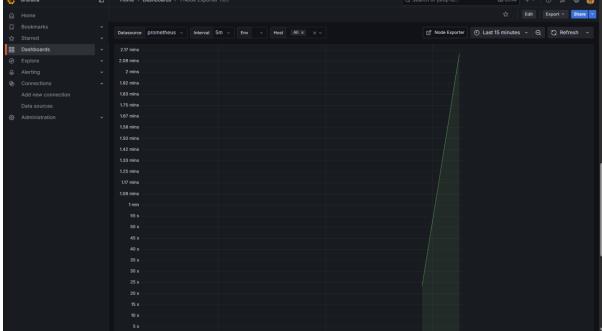






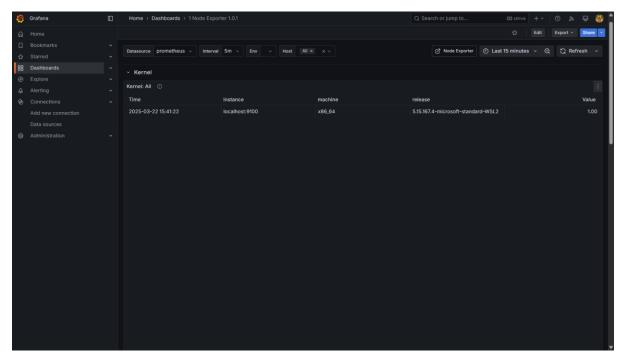
#### Overview:

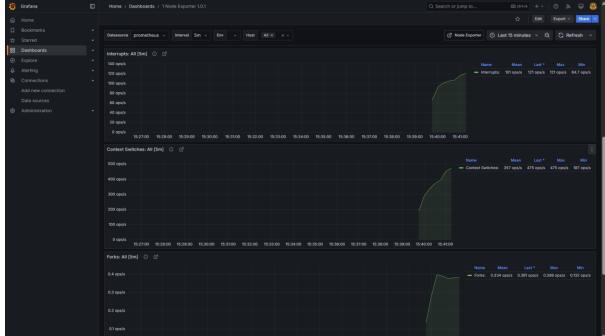




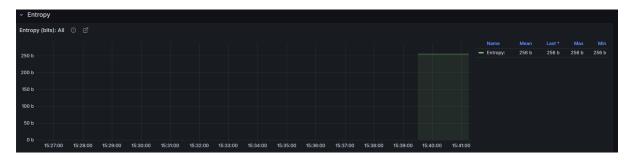


### Kernel:





### Entropy:

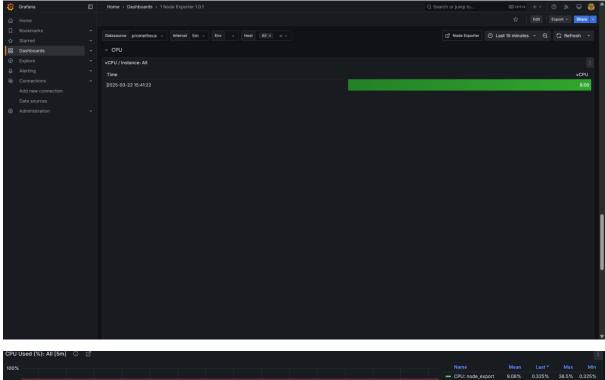


#### Load:



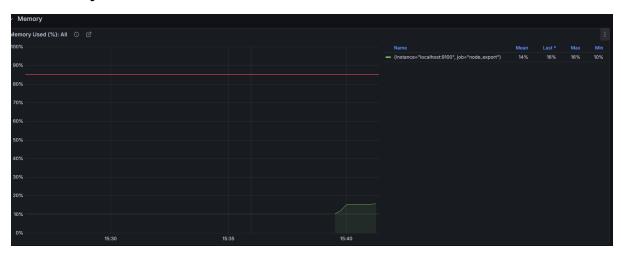


## CPU:

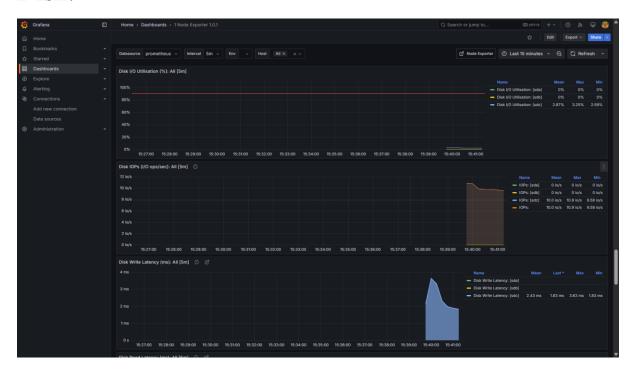




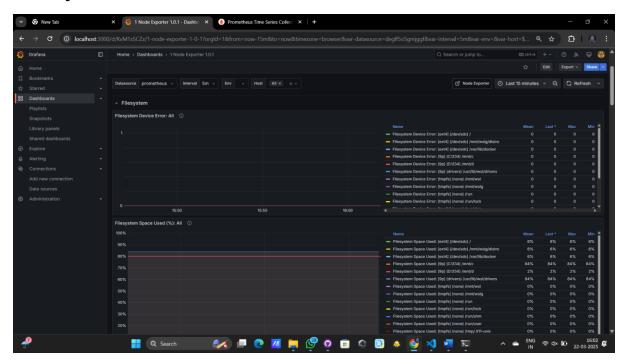
## Memory:



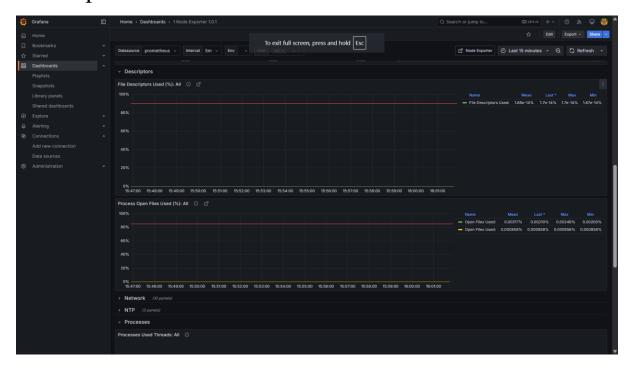
#### Disk:



## Filesystem:



## Descriptors:



#### Network:

