## DevOps-Day 06: Prometheus and Grafana

**Prometheus** Command: sudo useradd \ --system \ --no-create-home \ --shell /bin/false Prometheus 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 global: scrape\_interval: 15s # How often to scrape targets evaluation\_interval: 15s # How often to evaluate rules scrape\_configs:

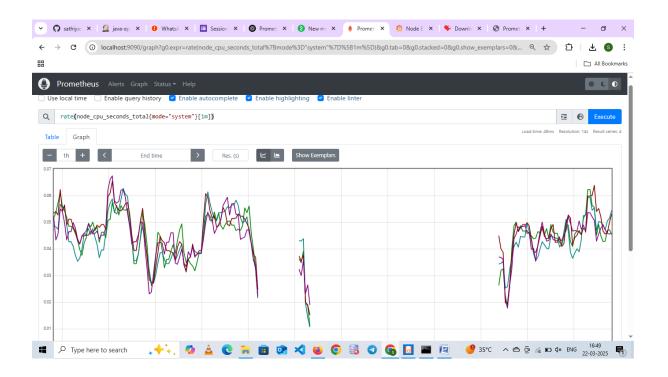
- job\_name: "prometheus" static\_configs:

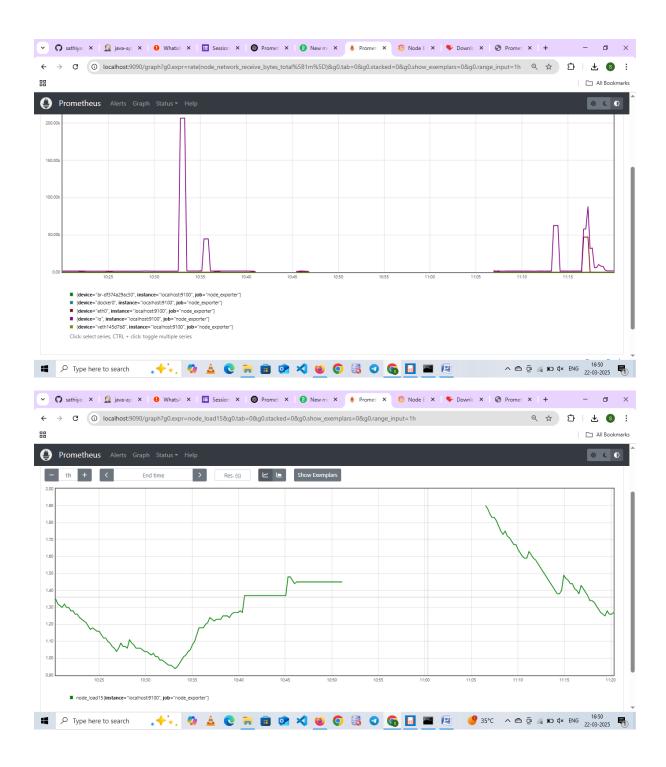
- targets: ["localhost:9090"]

- job\_name: "node\_exporter" static\_configs:

- targets: ["localhost:9100"]

sudo systemctl enable prometheus sudo systemctl start prometheus sudo systemctl status prometheus journalctl -u prometheus -f --no-pager



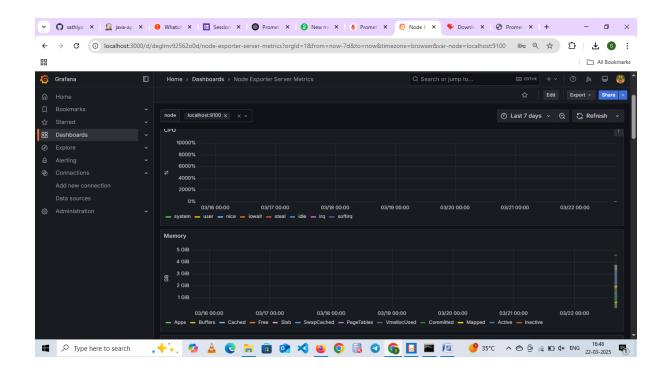


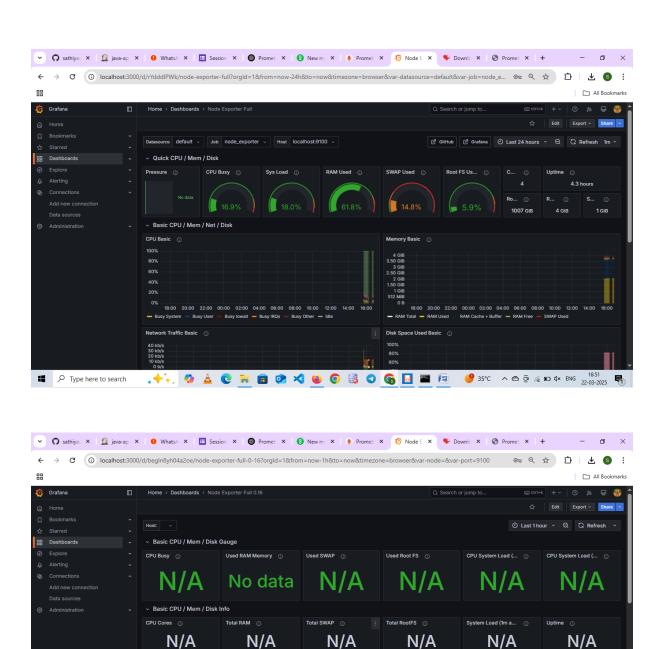
curl -X POST http://localhost:9090/-/reload

## **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

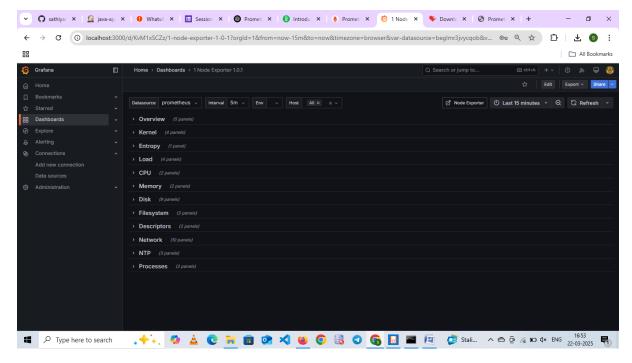
sudo apt-get update sudo apt-get -y install grafana sudo systemctl enable grafana-server sudo systemctl start grafana-server sudo systemctl status grafana-server





→ Basic CPU / Mem Graph

Type here to search



http://localhost:9090/metrics

## Features

1. a multi-dimensional data model with time series data identified by metric name and

## key/value pairs

- 2. PromQL, a flexible query language to leverage this dimensionality
- 3. no reliance on distributed storage; single server nodes are autonomous
- 4. time series collection happens via a pull model over HTTP
- 5. pushing time series is supported via an intermediary gateway
- 6. targets are discovered via service discovery or static configuration
- 7. multiple modes of graphing and dashboarding support