Installing Grafana:

sudo vim /etc/apt/sources.list.d/grafana.list
deb https://packages.grafana.com/oss/deb stable main
curl https://packages.grafana.com/gpg.key | sudo apt-key add -

sudo apt-get update sudo apt-get install grafana

sudo service grafana-server start sudo update-rc.d grafana-server defaults

Creating Users:

sudo useradd --no-create-home --shell /bin/false prometheus sudo useradd --no-create-home --shell /bin/false node exporter

sudo mkdir /etc/prometheus sudo mkdir /var/lib/prometheus

sudo chown prometheus:prometheus /etc/prometheus sudo chown prometheus:prometheus /var/lib/prometheus

Placing Prometheus Files

https://prometheus.io/download/

wget https://github.com/prometheus/prometheus/releases/download/v2.7.1/prometheus-2.7.1.linux-amd64.tar.gz

tar xvf prometheus-2.7.1.linux-amd64.tar.gz

sudo cp prometheus-2.7.1.linux-amd64/prometheus /usr/local/bin/sudo cp prometheus-2.7.1.linux-amd64/promtool /usr/local/bin/

sudo chown prometheus:prometheus /usr/local/bin/prometheus sudo chown prometheus:prometheus /usr/local/bin/promtool

sudo cp -r prometheus-2.7.1.linux-amd64/consoles /etc/prometheus

sudo cp -r prometheus-2.7.1.linux-amd64/console libraries /etc/prometheus

sudo chown -R prometheus:prometheus /etc/prometheus/consoles sudo chown -R prometheus:prometheus /etc/prometheus/console_libraries

rm -rf prometheus-2.7.1.linux-amd64.tar.gz prometheus-2.7.1.linux-amd64

Editing YAML

sudo vim /etc/prometheus/prometheus.yml global:

scrape interval: 15s

scrape configs:

- job_name: 'prometheus' scrape_interval: 5s static_configs:

- targets: ['localhost:9090']

sudo chown prometheus:prometheus /etc/prometheus/prometheus.yml

sudo -u prometheus /usr/local/bin/prometheus \

- --config.file /etc/prometheus/prometheus.yml \
- --storage.tsdb.path /var/lib/prometheus/ \
- --web.console.templates=/etc/prometheus/consoles \
- --web.console.libraries=/etc/prometheus/console libraries

Kill this process by ctrl+c

Prometheus Service

sudo vim /etc/systemd/system/prometheus.service

[Unit]

Description=Prometheus Wants=network-online.target After=network-online.target

[Service]
User=prometheus
Group=prometheus
Type=simple

ExecStart=/usr/local/bin/prometheus \

- --config.file /etc/prometheus/prometheus.yml \
- --storage.tsdb.path /var/lib/prometheus/ \
- --web.console.templates=/etc/prometheus/consoles \
- --web.console.libraries=/etc/prometheus/console libraries

[Install]

WantedBy=multi-user.target

Starting Prometheus:

sudo systemctl daemon-reload

sudo systemctl start prometheus

sudo systemctl status prometheus

sudo systemctl enable prometheus

Getting Node-Exporter

https://prometheus.io/download/

wget https://github.com/prometheus/node_exporter/releases/download/v0.17.0/node_exporter-0.17.0.linux-amd64.tar.gz

tar xvf node exporter-0.17.0.linux-amd64.tar.gz

sudo cp node_exporter-0.17.0.linux-amd64/node_exporter /usr/local/bin sudo chown node exporter:node exporter /usr/local/bin/node exporter

rm -rf node exporter-0.17.0.linux-amd64.tar.gz node exporter-0.17.0.linux-amd64

Initializing Node-Exporter:

sudo vim /etc/systemd/system/node exporter.service

[Unit]

Description=Node Exporter Wants=network-online.target After=network-online.target

[Service]
User=node_exporter
Group=node_exporter
Type=simple
ExecStart=/usr/local/bin/node_exporter

[Install]
WantedBy=multi-user.target

Starting Node Exporter

sudo systemctl start node_exporter

sudo systemctl daemon-reload

sudo systemctl status node_exporter

sudo systemctl enable node exporter

Adding Node-Exporter to Prometheus

sudo vim /etc/prometheus/prometheus.yml

global:

scrape interval: 15s

scrape_configs:

- job_name: 'prometheus' scrape_interval: 5s static_configs:

- targets: ['localhost:9090']

- job_name: 'node_exporter' scrape interval: 5s

static_configs:

- targets: ['localhost:9100']

Restart Services:

sudo systemctl restart prometheus

sudo systemctl status prometheus

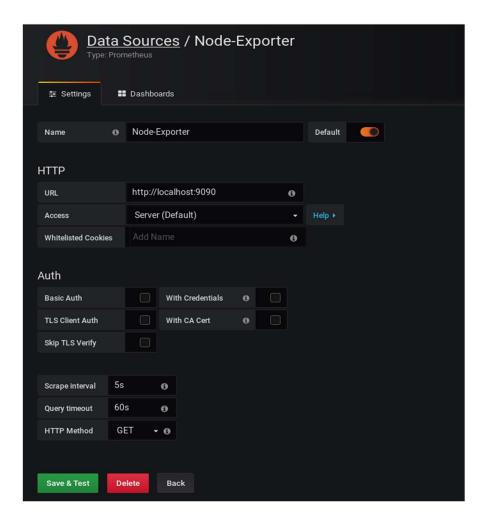
Accessing Stuff:

Prometheus: http://localhost:9090
Grafana: http://localhost:3000

U: admin p: admin

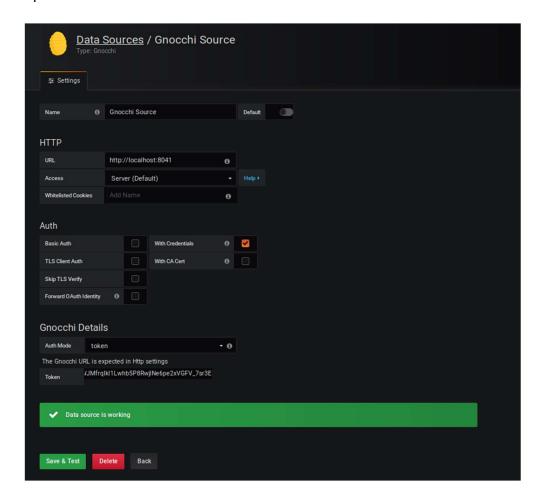
Adding Datasource in Grafana:

Data source > Prometheus



Gnnochi:

sudo grafana-cli plugins install gnocchixyz-gnocchi-datasource sudo service grafana-server source /opt/stack/devstack/admin-openrc.sh openstack token issue



Adding Dashboard:

To import the dashboard for collecting server metrics using Node Exporter, follow the below steps:

On the left end of the screen, hovering on the "+" sign, select "Import". In the below screen, paste the contents of node_exporter.json of the git repository in the text box.

Once done, click on "Upload .json file" to create the new dashboard.

