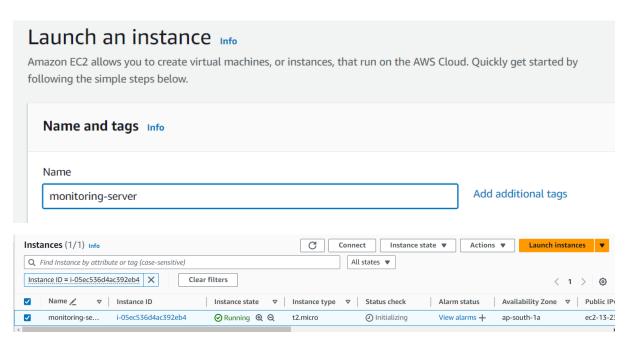
Task 21: Install Prometheus and Grafana on EC2 machine, connect Prometheus to Grafana, and create a dashboard to view metrics.

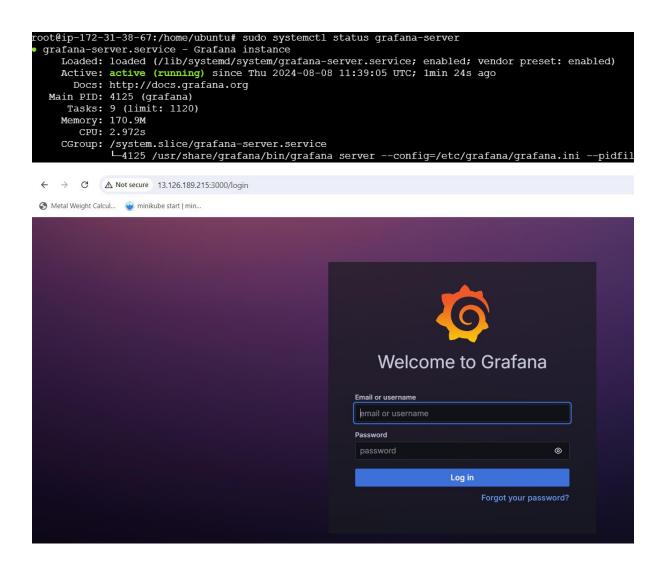


Connect that instance

1. Install Grafana:

```
#!/bin/bash
echo 'deb https://packages.grafana.com/oss/deb stable main' >> /etc/apt/sources.list
curl https://packages.grafana.com/gpg.key | sudo apt-key add -
sudo apt-get update
sudo apt-get update
sudo apt-get -y install grafana
systemctl daemon-reload
systemctl start grafana-server
systemctl enable grafana-server
systemctl enable grafana-server.service

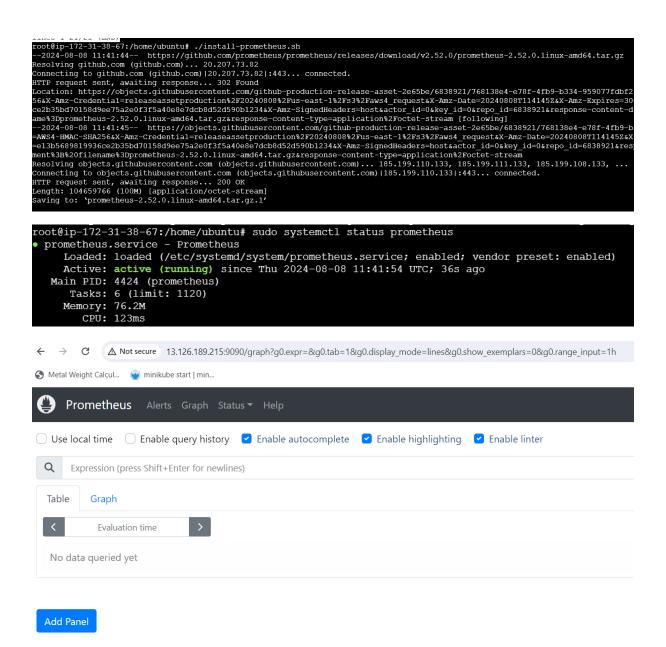
Setting up libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
8etting up grafana (11.1.3) ...
Adding system user 'grafana' (UID 115) with group 'grafana' ...
Not creating home directory 'Just/share/grafana' ...
Not playstenctl daemon-reload
sudo /bin/systenctl daemon-reload
sudo /bin/systenctl daema-server by executing
adud /bin/systenctl grafana-server
processing triggers for man-db (2.10.2-1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes.
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (gemu) binaries on this host.
Synchronizing state of grafana-server.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable grafana-server.service - /lib/system/grafana-server.service.
```



2. Install Prometheus:

```
#!/bin/bash
PROMETHEUS_VERSION="2.52.0"
wget https://github.com/prometheus/prometheus/releases/download/v$(PROMETHEUS_VERSION).linux-amd64.tar.gz
tar -xxvf prometheus-$(PROMETHEUS_VERSION).linux-amd64.tar.gz
cd prometheus-$(PROMETHEUS_VERSION).linux-amd64.tar.gz
cd prometheus-$(PROMETHEUS_VERSION).linux-amd64)
# if you just want to start prometheus as root
#./prometheus -config.file=prometheus.yml

# create user
useradd --no-create-home --shell /bin/false prometheus
# dreate directories
mkdir -p /etc/prometheus
mkdir -p /etc/prometheus
# set ownership
chown prometheus:prometheus /etc/prometheus
chown prometheus:prometheus /var/lib/prometheus
# copy binaries
cp prometheus /usr/local/bin/
chown prometheus:prometheus /usr/local/bin/prometheus
```



3. Install node exporter:

```
root@ip-172-31-38-67:/home/ubuntu# sudo systemctl status node_exporter
node_exporter.service - Node Exporter
Loaded: loaded (/etc/systemd/system/node_exporter.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2024-08-08 11:45:49 UTC; 7min ago
Main PID: 4639 (node_exporter)
Tasks: 3 (limit: 1120)
Memory: 2.0M
CPU: 8ms
CGroup: /system.slice/node_exporter.service
L4639 /usr/local/bin/node_exporter

A Not secure 13.126.189.215:9100

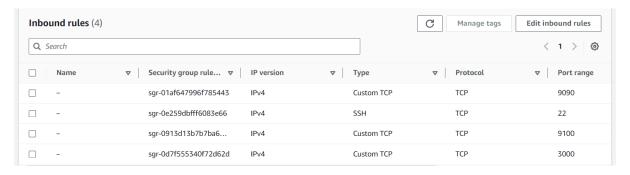
Metal Weight Calcul... minikube start | min...
```

Prometheus Node Exporter

Version: (version=1.8.1, branch=HEAD, revision=400c3979931613db930ea035f39ce7b377cdbb5b)

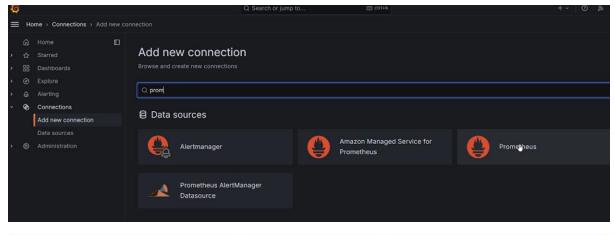
• Metrics

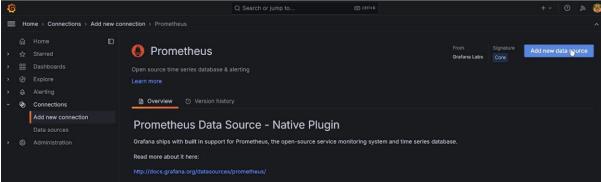
Add port number for all

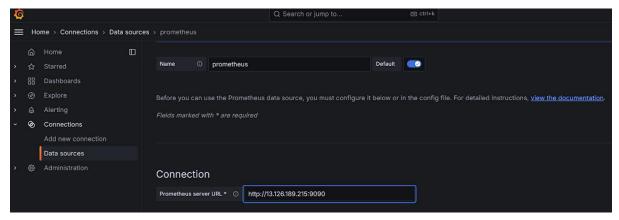


4. create a dashboard to view metrics:

add source [Prometheus] in Grafana:







```
alerting:
alertmanagers:
- static_configs:
- targets:
# - alertmanager:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
# - "first_rules.yml"
# - "second_rules.yml"
# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
# The job name is added as a label 'job=<job_name>' to any timeseries scraped from this config.
- job_name: "prometheus"

# metrics_path defaults to '/metrics'
# scheme defaults to '/hetrics'
# scheme defaults to '/hetrics'
# static_configs:
- targets: ["localhost:9100"]

I
```

