

## Task – 21

### Install Prometheus and Grafana on a Linux EC2 machine, connect Prometheus to Grafana, and create a dashboard to view metrics.

#### Creating 2 ec2 instances:

##### Instance 1:

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The 'Name and tags' section has the name 'monitoring server'. The 'Application and OS Images (Amazon Machine Image)' section shows 'Ubuntu Server 22.04 LTS (HVM, SSD Volume Type)' selected. The 'Summary' section on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Canonical, Ubuntu, 22.04 LTS', 'Virtual server type (instance type)' as 't2.micro', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. A 'Free tier' notification is visible, stating that the first year includes 750 hours of t2.micro usage. The 'Launch instance' button is highlighted in orange.

##### Instance 2:

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The 'Name and tags' section has the name 'target machine'. The 'Application and OS Images (Amazon Machine Image)' section shows 'Ubuntu Server 22.04 LTS (HVM, SSD Volume Type)' selected. The 'Summary' section on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Canonical, Ubuntu, 22.04 LTS', 'Virtual server type (instance type)' as 't2.micro', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. A 'Free tier' notification is visible, stating that the first year includes 750 hours of t2.micro usage. The 'Launch instance' button is highlighted in orange.

# Cloning Git Repository to both machines:

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ubuntu@ip-172-31-10-53:~\$ git clone https://github.com/cyril-doss14/Prometheus\_Grafana.git

Cloning into 'Prometheus\_Grafana'...

remote: Enumerating objects: 20, done.

remote: Counting objects: 100% (20/20), done.

remote: Compressing objects: 100% (18/18), done.

remote: Total 20 (delta 0), reused 20 (delta 0), pack-reused 0

Receiving objects: 100% (20/20), done.

ubuntu@ip-172-31-10-53:~\$

i-Oc737fcae0a2d1490 (target machine)

PublicIPs: 13.126.253.212 PrivateIPs: 172.31.10.53

CloudShell

Feedback

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ubuntu@ip-172-31-10-96:~\$ git clone https://github.com/cyril-doss14/Prometheus\_Grafana.git

Cloning into 'Prometheus\_Grafana'...

remote: Enumerating objects: 20, done.

remote: Counting objects: 100% (20/20), done.

remote: Compressing objects: 100% (18/18), done.

remote: Total 20 (delta 0), reused 20 (delta 0), pack-reused 0

Receiving objects: 100% (20/20), done.

ubuntu@ip-172-31-10-96:~\$

i-Ob49441b25dd3163e (monitoring server)

PublicIPs: 13.233.101.45 PrivateIPs: 172.31.10.96

CloudShell

Feedback

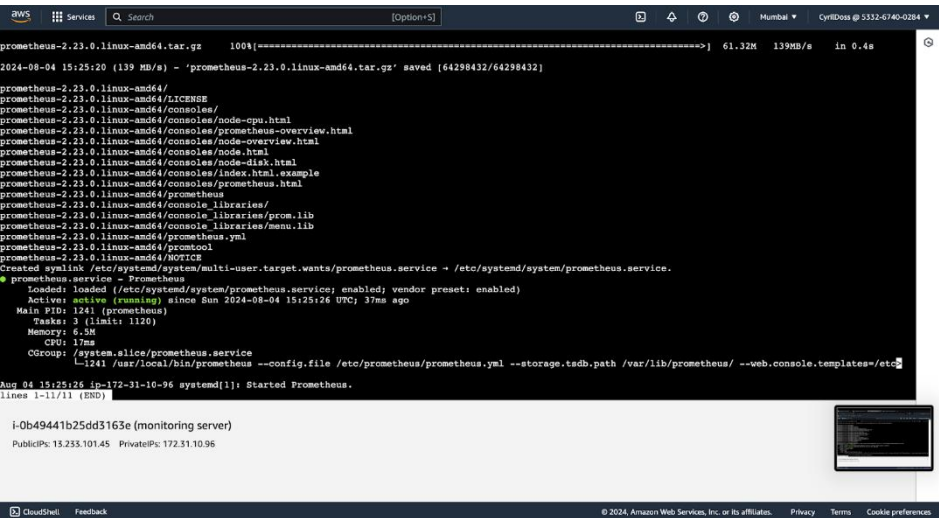
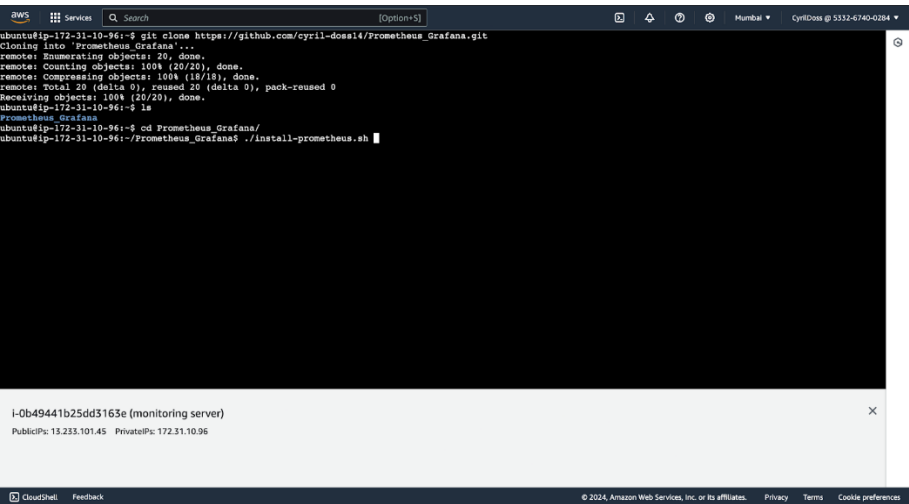
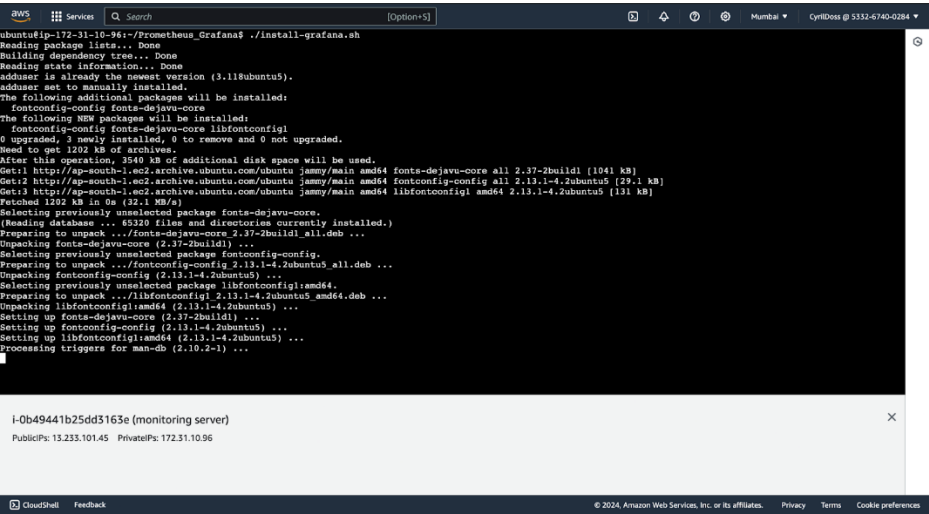
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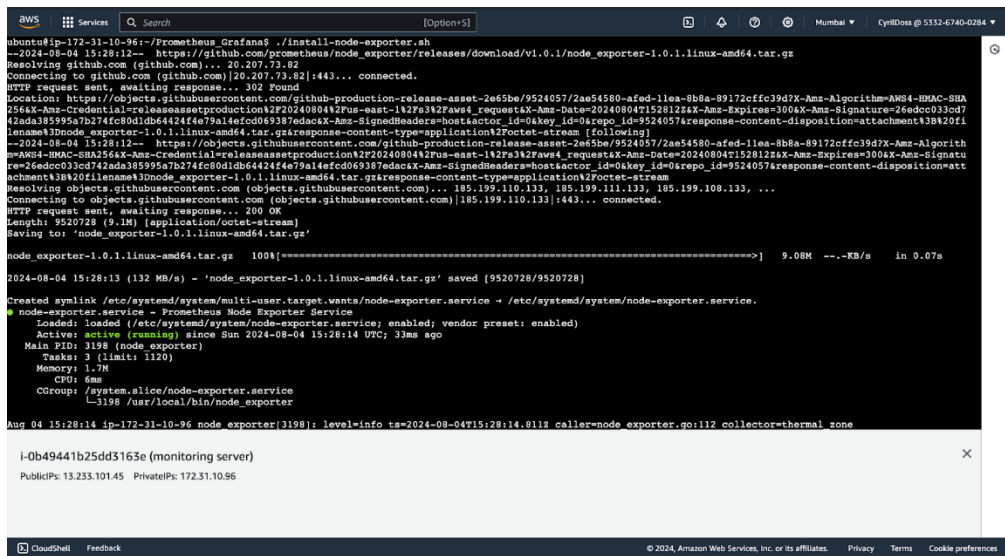
Privacy

Terms

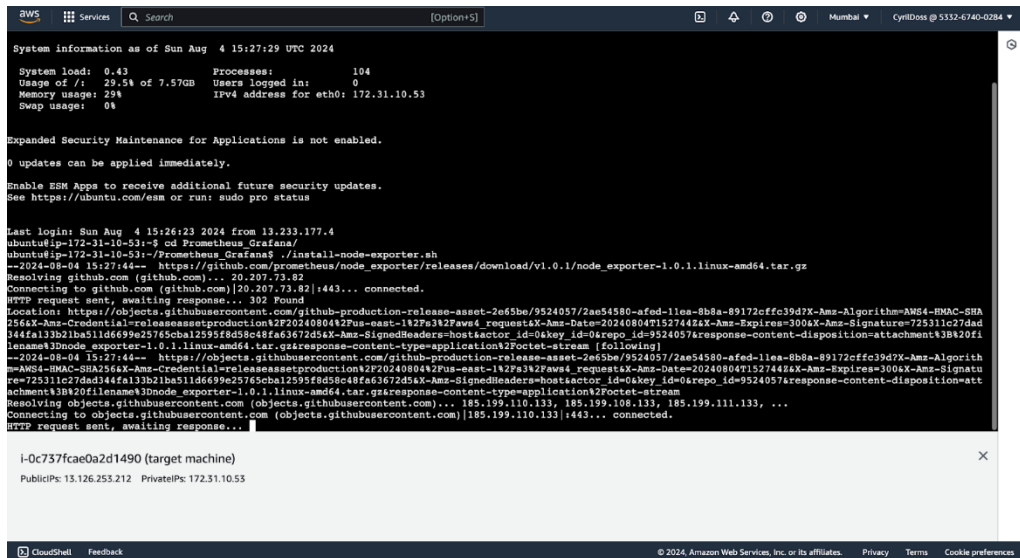
Cookie preferences

# Installing Grafana, Prometheus, Node exporter in monitoring machine:

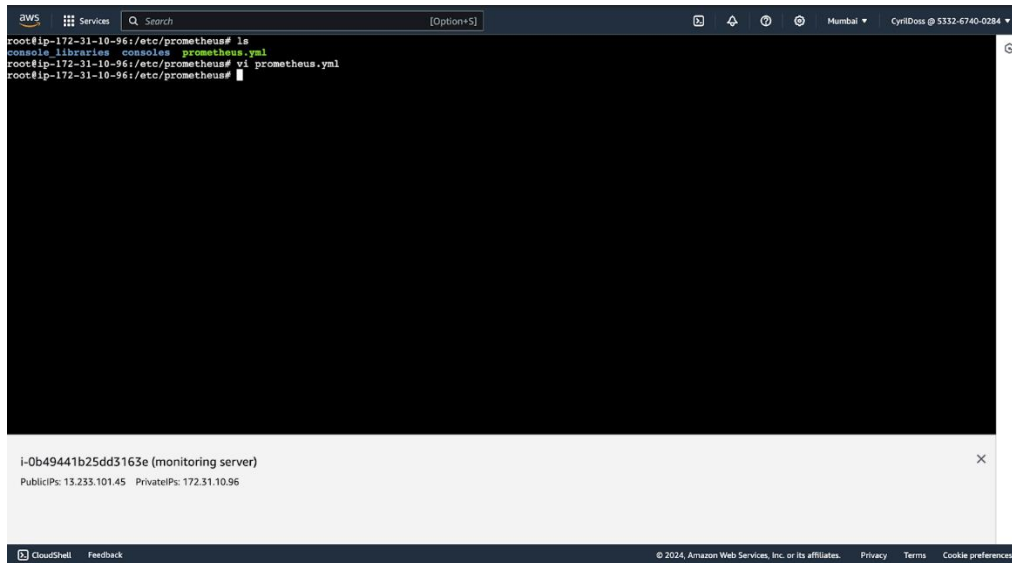




## Installing node exporter in target machine:

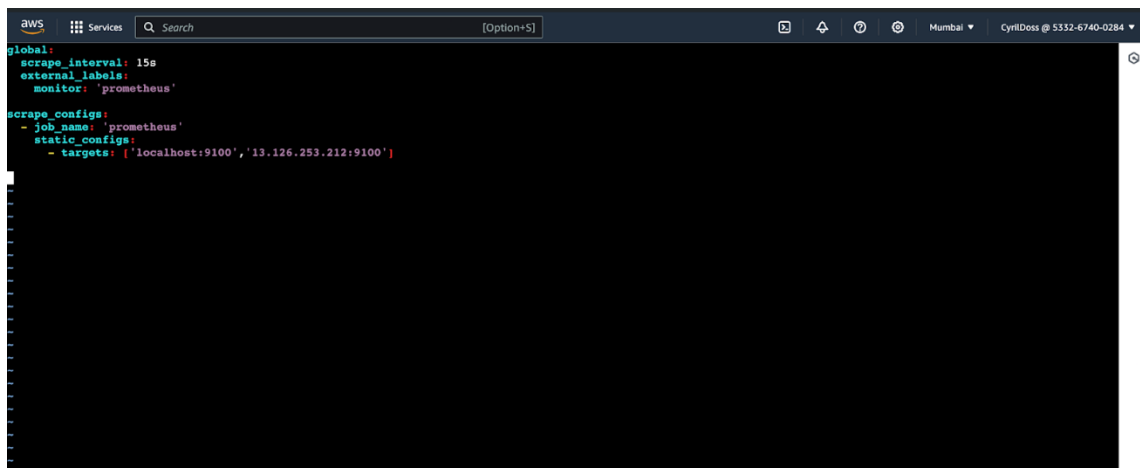


## Adding target machine ip address to prometheus job:



```
root@ip-172-31-10-96:/etc/prometheus# ls
console Libraries consoles prometheus.yml
root@ip-172-31-10-96:/etc/prometheus# vi prometheus.yml
root@ip-172-31-10-96:/etc/prometheus#
```

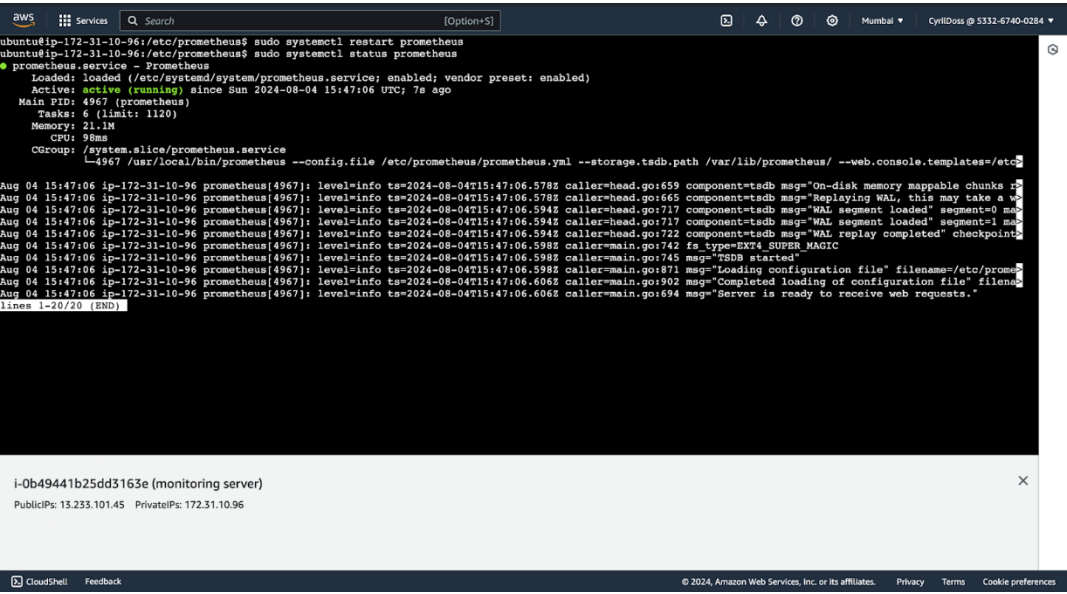
i-0b49441b25dd3163e (monitoring server)  
PublicIPs: 13.253.101.45 PrivateIPs: 172.31.10.96



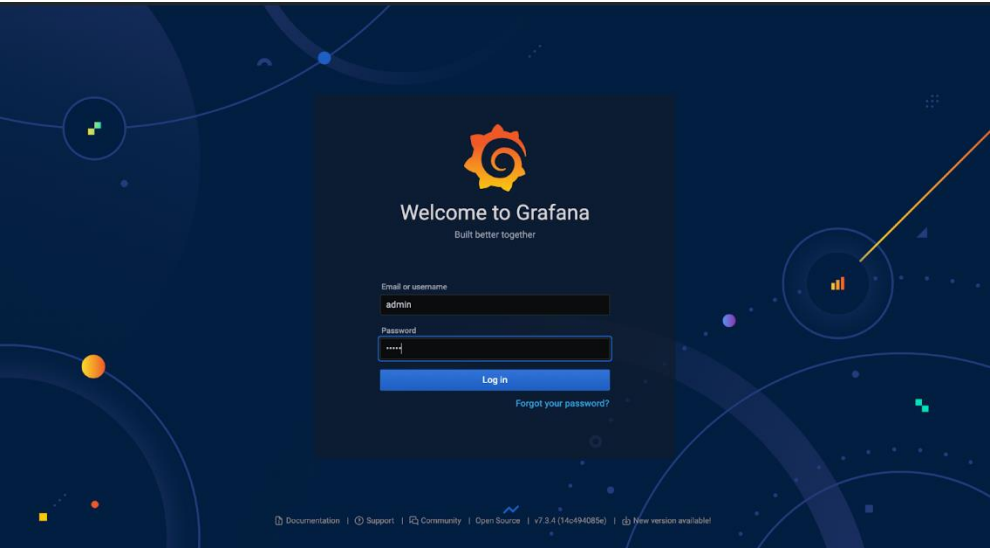
```
global:
  scrape_interval: 15s
  external_labels:
    monitor: 'prometheus'

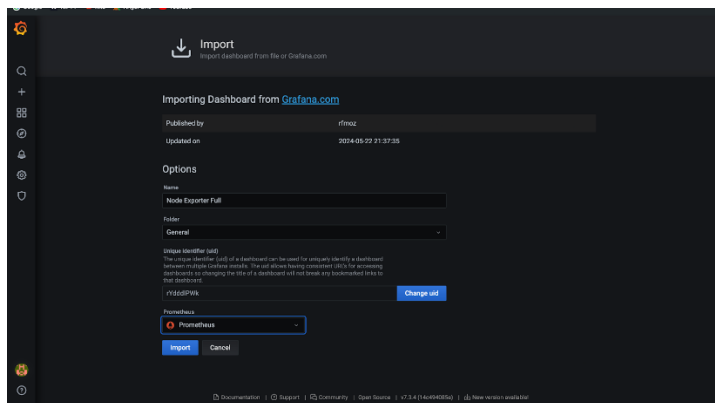
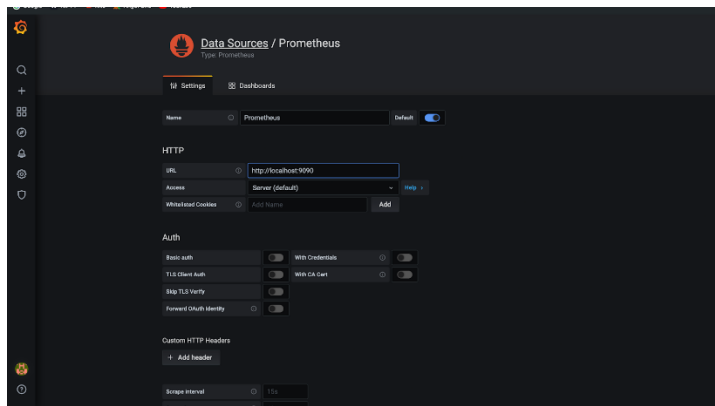
scrape_configs:
  - job_name: 'prometheus'
    static_configs:
      - targets: ['localhost:9100', '13.126.253.212:9100']
```

## Restarting Prometheus:



## Configuring Grafana Data source and loading the dashboard:





## Output Dashboard:

