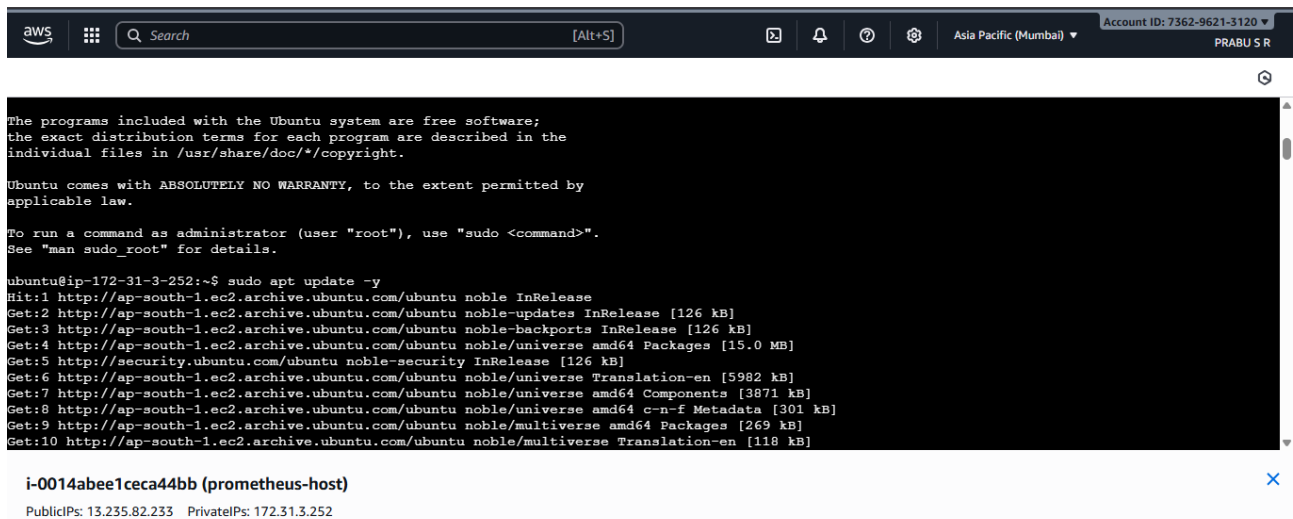
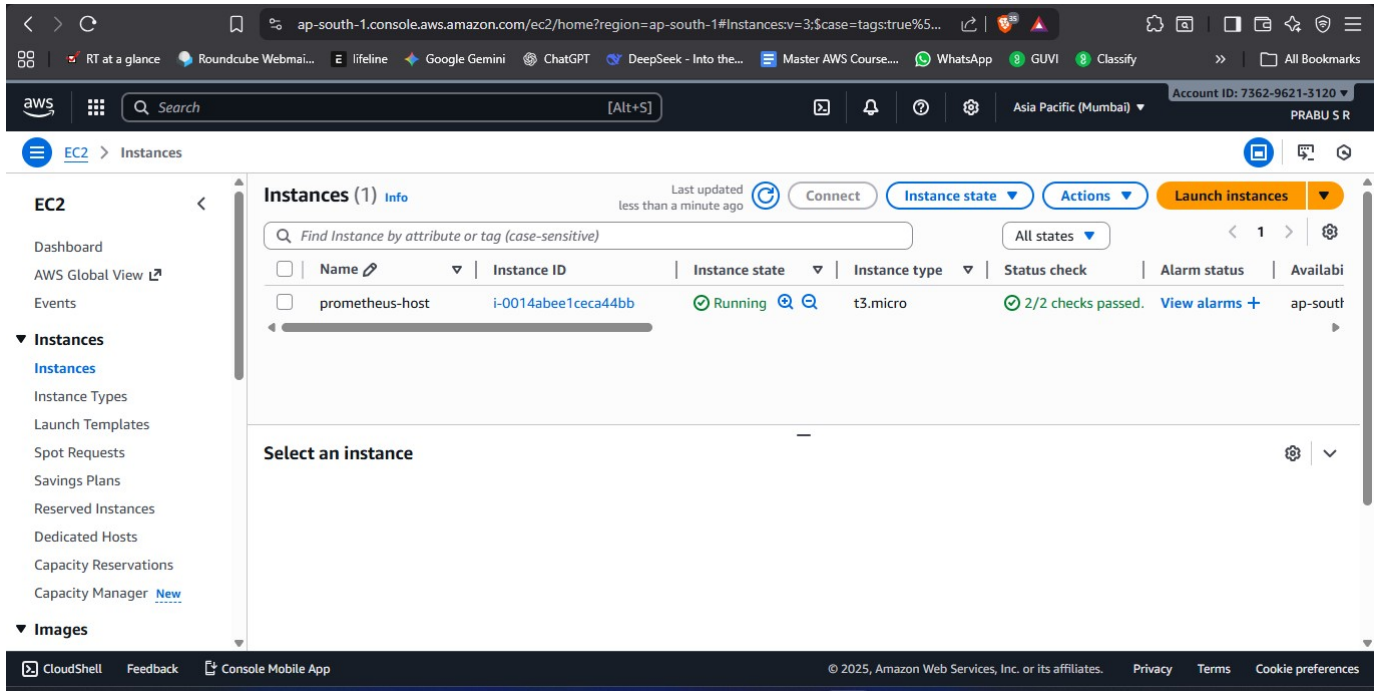


Monitoring Task

Task Description:

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



```

ubuntu@ip-172-31-3-252:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following NEW packages will be installed:
  linux-aws-6.14-headers-6.14.0-1017 linux-aws-6.14-tools-6.14.0-1017 linux-headers-6.14.0-1017-aws linux-image-6.14.0-1017-aws
  linux-modules-6.14.0-1017-aws linux-tools-6.14.0-1017-aws
The following upgrades have been deferred due to phasing:
  gir1.2-glib-2.0 landscape-common libglib2.0-0t64 libglib2.0-bin libglib2.0-data
The following packages will be upgraded:
  bind9-dnswtills bind9-host bind9-libs gir1.2-packagekitglib-1.0 intel-microcode libdrm-common libdrm2 libpackagekit-glib2-18 libpython3-stdlib
  libpython3.12-minimal libpython3.12-stdlib libpython3.12t64 libssh-4 libxml2 linux-aws linux-headers-aws linux-image-aws linux-tools-common
  packagekit packagekit-tools python3 python3-minimal python3.12 python3.12-minimal snapd ubuntu-pro-client ubuntu-pro-client-110n
27 upgraded, 6 newly installed, 0 to remove and 5 not upgraded.
18 standard DTS security updates
Need to get 131 MB of archives.
After this operation, 179 MB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 ubuntu-pro-client-110n amd64 37.1ubuntu0~24.04 [19.8 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 ubuntu-pro-client amd64 37.1ubuntu0~24.04 [259 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 python3-minimal amd64 3.12.3-0ubuntu2.1 [27.4 kB]

```

i-0014abee1ceca44bb (prometheus-host)

PublicIPs: 13.235.82.233 PrivateIPs: 172.31.3.252

```

aws [Search] [Alt+S] Account ID: 7362-9621-3120 PRABU S R
ubuntu@ip-172-31-3-252:~$ sudo wget https://github.com/prometheus/prometheus/releases/download/v3.5.0/prometheus-3.5.0.linux-amd64.tar.gz
--2025-12-04 13:36:27-- https://github.com/prometheus/prometheus/releases/download/v3.5.0/prometheus-3.5.0.linux-amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://release-assets.githubusercontent.com/github-production-release-asset/6838921/ad84846f-8c91-4fb7-bec7-e818e0eddc3a?sp=r&sv=2018-11-09
&sr=b&sfw=https&se=2025-12-04T14:30:16&3a0126racd=attachment%3Bfilename%3Dprometheus-3.5.0.linux-amd64.tar.gz&fract=application%3Foctet-stream&stoid=96

```

```

aws [Search] [Alt+S]
ubuntu@ip-172-31-3-252:~$ ls -l
total 118296
-rw-r--r-- 1 root root 121127234 Jul 14 16:43 prometheus-3.5.0.linux-amd64.tar.gz
ubuntu@ip-172-31-3-252:~$ tar -xvf prometheus-3.5.0.linux-amd64.tar.gz
prometheus-3.5.0.linux-amd64/
prometheus-3.5.0.linux-amd64/prometheus.yml
prometheus-3.5.0.linux-amd64/prometheus
prometheus-3.5.0.linux-amd64/NOTICE
prometheus-3.5.0.linux-amd64/LICENSE
prometheus-3.5.0.linux-amd64/promtool
ubuntu@ip-172-31-3-252:~$

```

```

total 118300
drwxr-xr-x 2 ubuntu ubuntu 4096 Jul 14 16:38 prometheus-3.5.0.linux-amd64
-rw-r--r-- 1 root root 121127234 Jul 14 16:43 prometheus-3.5.0.linux-amd64.tar.gz
ubuntu@ip-172-31-3-252:~$

```

```

ubuntu@ip-172-31-3-252:~$ cd prometheus-3.5.0.linux-amd64/
ubuntu@ip-172-31-3-252:~/prometheus-3.5.0.linux-amd64$ ls -l
total 302932
-rw-r--r-- 1 ubuntu ubuntu 11357 Jul 14 16:36 LICENSE
-rw-r--r-- 1 ubuntu ubuntu 3773 Jul 14 16:36 NOTICE
-rwxr-xr-x 1 ubuntu ubuntu 159425376 Jul 14 16:17 prometheus
-rw-r--r-- 1 ubuntu ubuntu 1093 Jul 14 16:36 prometheus.yml
-rwxr-xr-x 1 ubuntu ubuntu 150746286 Jul 14 16:17 promtool
ubuntu@ip-172-31-3-252:~/prometheus-3.5.0.linux-amd64$

```

```
aws
Search [Alt+S]
Account ID: 7362-9621-3120
PRABU S R

ubuntu@ip-172-31-3-252:~/prometheus-3.5.0.linux-amd64$ sudo systemctl status prometheus
prometheus.service - Prometheus Monitoring
Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
Active: active (running) since Thu 2025-12-04 14:00:50 UTC; 28s ago
Main PID: 10892 (prometheus)
Tasks: 7 (limit: 1008)
Memory: 29.0M (peak: 29.1M)
CPU: 98ms
CGroup: /system.slice/prometheus.service
└─10892 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/var/lib/prometheus/ --web.console.te

Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.447Z level=INFO source=head.go:744 msg="On-disk memory mappable chunks re
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.448Z level=INFO source=head.go:752 msg="Replaying WAL, this may take a wh
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.448Z level=INFO source=head.go:825 msg="WAL segment loaded" component=tsc
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.448Z level=INFO source=head.go:862 msg="WAL replay completed" component=t
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.451Z level=INFO source=main.go:1309 msg="filesystem information" fs_type=
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.452Z level=INFO source=main.go:1312 msg="TSDB started"
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.452Z level=INFO source=main.go:1497 msg="Loading configuration file" file
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.457Z level=INFO source=main.go:1537 msg="Completed loading of configurati
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.457Z level=INFO source=main.go:1273 msg="Server is ready to receive web r
Dec 04 14:00:50 ip-172-31-3-252 prometheus[10892]: time=2025-12-04T14:00:50.457Z level=INFO source=manager.go:176 msg="Starting rule manager..." comp

lines 1-20/20 (END)
```

i-0014abee1ceca44bb (prometheus-host)

PublicIPs: 13.235.82.233 PrivateIPs: 172.31.3.252

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aws Search [Alt+S] Account ID: 7362-9621-3120 PRABU S R

EC2 > Security Groups > sg-0d7c9a8c96058b3ed - launch-wizard-11 > Edit inbound rules

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sgr-0c4d9db2b8572bc2c	SSH	TCP	22	Cust...		Delete
-	Custom TCP	TCP	9090	Any...		Delete

[Add rule](#)

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Preview changes](#) [Save rules](#)

Not secure 13.235.82.233:9090/query

RT at a glance Roundcube Webmai... lifeline Google Gemini ChatGPT DeepSeek - Into the... Master AWS Course... WhatsApp GUVI Classify All Bookmarks

Prometheus

Query Alerts Status

Enter expression (press Shift+Enter for newlines) [Execute](#)

Table Graph Explain

< Evaluation time >

No data queried yet

+ Add query

Browser window showing AWS Management Console terminal output for Grafana service status and logs. The terminal shows the service is active and running, with logs indicating plugin installation and registration.

```
grafana-server.service - Grafana instance
Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; enabled; preset: enabled)
Active: active (running) since Thu 2025-12-04 16:40:54 UTC; 1min 18s ago
Docs: http://docs.grafana.org
Main PID: 12512 (grafana)
Tasks: 16 (limit: 1008)
Memory: 334.0M (peak: 354.1M)
CPU: 4.581s
CGroup: /system.slice/grafana-server.service
└─12512 /usr/share/grafana/bin/grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana/grafana-server.pid --packaging=deb

Dec 04 16:41:06 ip-172-31-3-252 grafana[12512]: logger=plugin.backgroundinstaller t=2025-12-04T16:41:06.328845495Z level=info msg="Installing plugin"
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugin.installer t=2025-12-04T16:41:07.131471822Z level=info msg="Installing plugin" pluginId=
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=installer.fs t=2025-12-04T16:41:07.205117901Z level=info msg="Downloaded and extracted grafana"
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugins.registration t=2025-12-04T16:41:07.244584995Z level=info msg="Plugin registered" pluginId=
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugin.backgroundinstaller t=2025-12-04T16:41:07.244633579Z level=info msg="Plugin successfully"
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugin.backgroundinstaller t=2025-12-04T16:41:07.244662741Z level=info msg="Installing plugin"
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugin.installer t=2025-12-04T16:41:07.869472909Z level=info msg="Installing plugin" pluginId=
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=installer.fs t=2025-12-04T16:41:07.939477541Z level=info msg="Downloaded and extracted grafana"
Dec 04 16:41:07 ip-172-31-3-252 grafana[12512]: logger=plugins.registration t=2025-12-04T16:41:08.006293813Z level=info msg="Plugin registered" pluginId=
Dec 04 16:41:08 ip-172-31-3-252 grafana[12512]: logger=plugin.backgroundinstaller t=2025-12-04T16:41:08.006392695Z level=info msg="Plugin successfully"
lines 1-21
```

i-0014abee1ceca44bb (prometheus-host)

PublicIPs: 13.235.82.233 PrivateIPs: 172.31.3.252

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Browser window showing AWS Management Console Security Groups page. The page displays inbound rules for the security group sgr-0c4d9db2b8572bc2c, including SSH and Custom TCP rules.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	Info
sgr-0c4d9db2b8572bc2c	SSH	TCP	22	Cust...		Delete
sgr-0c962022c6901b0e2	Custom TCP	TCP	9090	Cust...		Delete
-	Custom TCP	TCP	3000	Any...		Delete

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Preview changes Save rules

Browser window showing the Grafana login page. The page displays the Grafana logo and the text "Welcome to Grafana". The login form includes fields for "Email or username" and "Password", a "Log in" button, and a link for "Forgot your password?".

13.235.82.233:3000/login

Not secure

Welcome to Grafana

Email or username

Password

Log in

Forgot your password?

Documentation Support Community Open Source Grafana v12.3.0 (20051fb1fc)

