

DARSANA PRAVEEN

MODULE-7

GRAFANA

ASSIGNMENT-1

DATE-24-02-2024

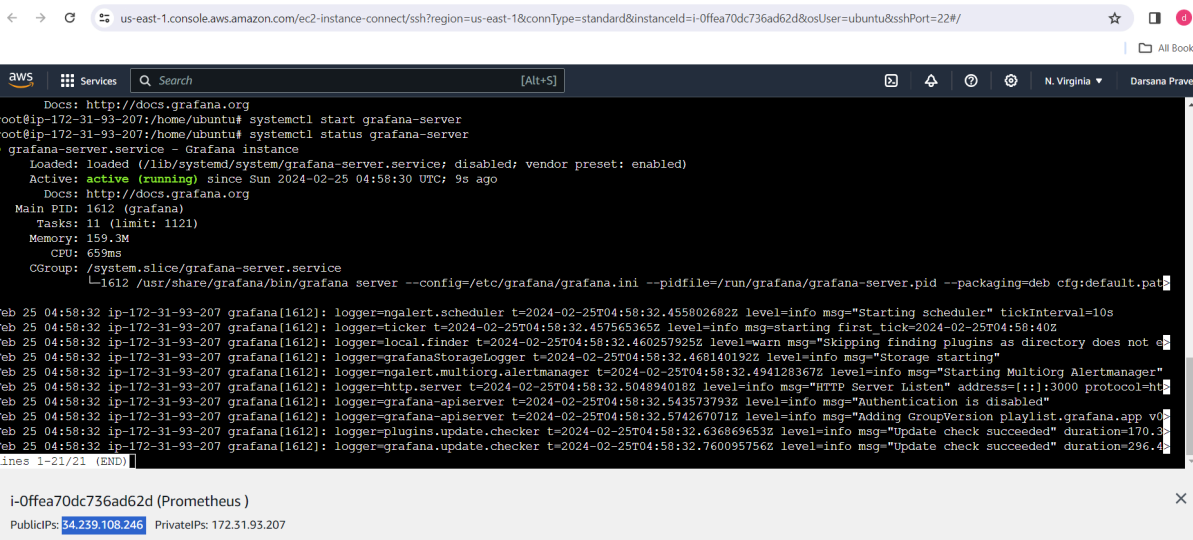
Grafana Assignment

You have been working with the CI/CD pipeline for so long and you have deployed your application to the production environment, But the organization is struggling in maintaining the environment as there is no automated monitoring solution in place, which can report the issue earlier and preventive measures can be taken on time. you are requested to implement the continuous monitoring using Prometheus for one of the customer applications landscapes and graphical visualized reporting using Grafana.

You are required to execute following task.

1. Setup the monitoring server and install Grafana-server on it.
2. .Login to Grafana UI.
3. Create a dashboard.
4. Create panels for CPU, Memory and File Storage Visualization

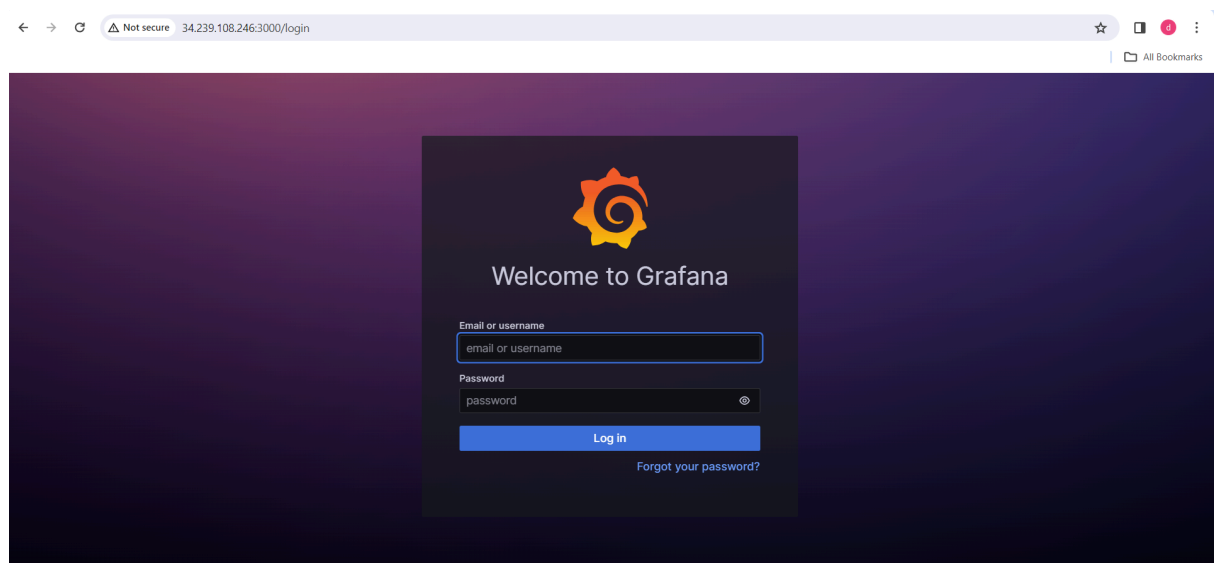
STEP-1 Setup the monitoring server and install Grafana-server on it.



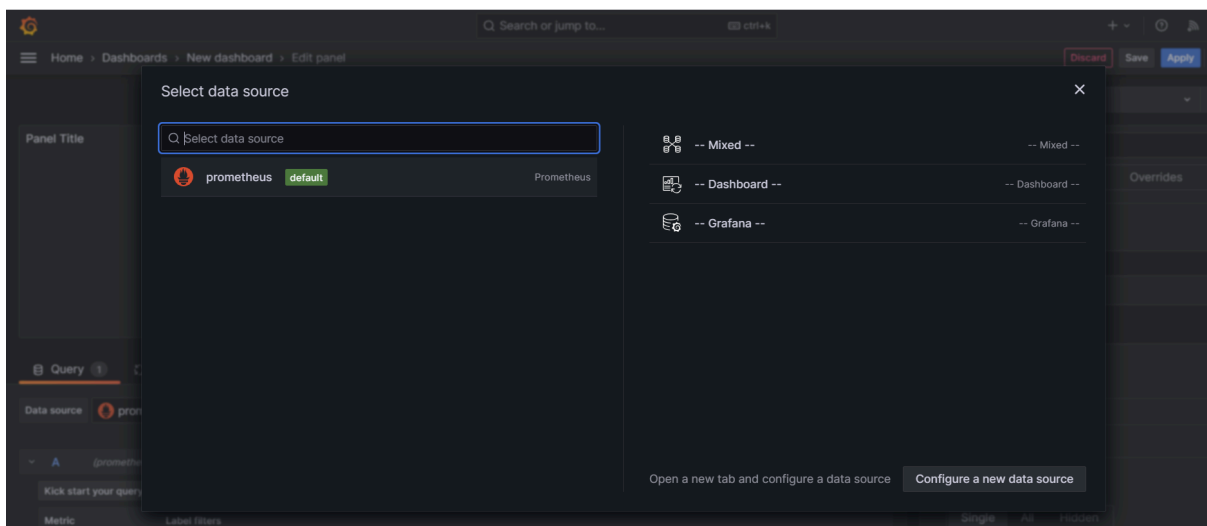
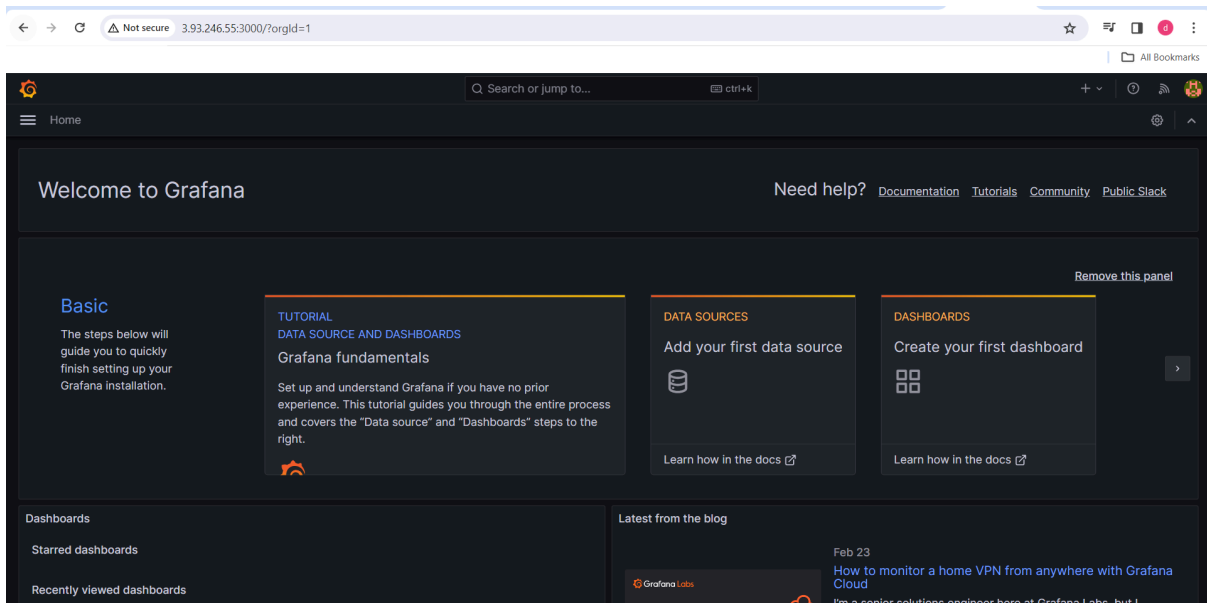
The screenshot shows the AWS Management Console terminal for an EC2 instance. The user has run the command `systemctl start grafana-server` and `systemctl status grafana-server`. The output shows that the service is loaded and active (running). The main PID is 1612. The service is configured with `grafana server --config=/etc/grafana/grafana.ini --pidfile=/run/grafana/grafana-server.pid --packaging=deb`. The logs show the following messages:

```
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-ngalert.scheduler t=2024-02-25T04:58:32.455802682Z level=info msg="Starting scheduler" tickInterval=10s
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-ticker t=2024-02-25T04:58:32.457565365Z level=info msg="starting first tick" tick=2024-02-25T04:58:40Z
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-local.finder t=2024-02-25T04:58:32.460257925Z level=warn msg="Skipping finding plugins as directory does not exist"
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-grafanaStorageLogger t=2024-02-25T04:58:32.468140192Z level=info msg="Storage starting"
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-ngalert.multioorg.alertmanager t=2024-02-25T04:58:32.494128367Z level=info msg="Starting MultiOrg Alertmanager"
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-http.server t=2024-02-25T04:58:32.504894018Z level=info msg="HTTP Server Listen" address=[::]:3000 protocol=https
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-grafana-apiserver t=2024-02-25T04:58:32.543573793Z level=info msg="Authentication is disabled"
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-grafana-apiserver t=2024-02-25T04:58:32.574267071Z level=info msg="Adding GroupVersion playlist.grafana.app v0.0.0"
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-plugins.update.checker t=2024-02-25T04:58:32.636869653Z level=info msg="Update check succeeded" duration=170.3ms
Feb 25 04:58:32 ip-172-31-93-207 grafana[1612]: logger-grafana.update.checker t=2024-02-25T04:58:32.760095756Z level=info msg="Update check succeeded" duration=296.4ms
```

STEP-2 .Login to Grafana UI.



STEP-3 Create a dashboard.



STEP-4 Create panels for CPU, Memory and File Storage Visualization

