A CLOUD GURU

Lesson Description - Installing and Configuring Grafana

Grafana is a great tool for visualizing your Prometheus data. In this lesson, we demonstrate the process of installing Grafana and configuring it to pull metrics from a Prometheus server.

Relevant Documentation

- Install on Debian or Ubuntu

Lesson Reference

Create a Grafana server.

Recommended cloud playground settings:

- Distribution: *Ubuntu 18.04 Bionic Beaver LTS*
- Size: *Small*
- Tag: *Grafana*

Log in to your new server.

Install some required packages:

```
sudo apt-get install -y apt-transport-https software-properties-
common wget
```

Add the GPG key for the Grafana OSS repository, and then add the repository:

```
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add
-
```

```
sudo add-apt-repository "deb https://packages.grafana.com/oss/deb
stable main"
```

Install the Grafana package:

```
sudo apt-get update
```

```
sudo apt-get install grafana=6.6.2
```

Enable and start the `grafana-server` service:

```
sudo systemctl enable grafana-server
```

```
sudo systemctl start grafana-server
```

Make sure the service is in the `Active (running)` state:

```
sudo systemctl status grafana-server
```

You can also verify Grafana is working by accessing it in a web browser at `http://<GRAFANA_SERVER_PUBLIC_IP>:3000`.

Log in to Grafana with the username `admin` and password `admin`.

Reset the password when prompted.

Click `Add data source`.

Select `Prometheus`.

For the `URL`, enter `http://<PROMETHEUS_SERVER_PRIVATE_IP>:9090`. Be sure to supply the unique private IP address of your Prometheus server.

Click `Save & Test`. You should see a banner that says `Data source is working`.

Test your setup by running a query to get some Prometheus data. Click the `Explore` icon on the left.

In the PromQL Query input, enter a simple query, such as `up`.

Execute the query. You should see some data appear.