A CLOUD GURU

Lesson Description - Building Prometheus Dashboards in Grafana

Now that you have Grafana installed and configured, you are ready to use it to visualize your Prometheus data. In this lesson, we demonstrate the process of setting up a Grafana dashboard to display metrics related to a Linux server monitored by Prometheus.

Relevant Documentation

- Using Grafana with Prometheus

Lesson Reference

Access Grafana in a browser at `http://<GRAFANA_SERVER_PUBLIC_IP>:3000`. Log in if necessary.

Create a New Dashboard Click the `Create` button on the left, and then select `Dashboard`.

Click the `Save Dashboard` button near the top right. For the dashboard name, enter `Linux Server` and then save.

Add a Server Status Panel Click the `Add Panel` button near the top right, and then `Add Query`.

For the PromQL query, enter `up{job="Web Server"}`.

Click the `Visualization` icon. Click the visualization type dropdown that currently says `Graph`, and change it to `Singlestat`.

Under `Value Mappings`, enter two `value to text` mappings:

- `1` -> `Up`
- `0` -> `Down`

Click the `General` icon, and change the panel title to `Server Status`.

Click the back button in the top left. You should see your dashboard, and the Server Status panel should say `Up`.

Add a Disk IO Rate Panel Click the `Add Panel` button near the top right, and then `Add Query`.

For the PromQL query, enter `rate(node_disk_io_time_seconds_total{job="Linux Server"}[5m])`.

Click the `General` icon, and change the panel title to `Disk IO Rate`.

Click the back button in the top left. You should see your dashboard, and there should be a graph showing disk IO rate.

Rearrange your panels by dragging and dropping them if desired.

Click the `Save Dashboard` button near the top right, and then `Save` to save your changes.