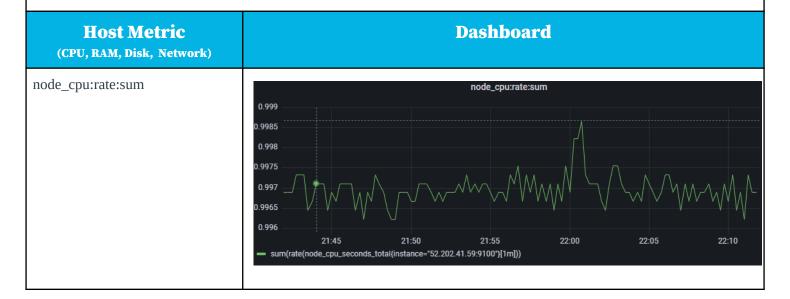# Observing Cloud Resources

SRE Assessment Template

Categorize Responsibilities

Prometheus and Grafana Screenshots
Provide a screenshot of the Prometheus node_exporter service running on the EC2 instance. Use the following command to show that the system is running: `sudo systemctl status node_exporter`

Host Metric	Dashboard
(CPU, RAM, Disk, Network)	
node_cpu:rate:sum	

node_memory_MemAvailable_bytes	node_memory_MemAvailable_bytes
node_disk_io_now	node_disk_io_now
node_network_receive_bytes:rate:sum	node_network_receive_bytes:rate:sum

Responsibilities

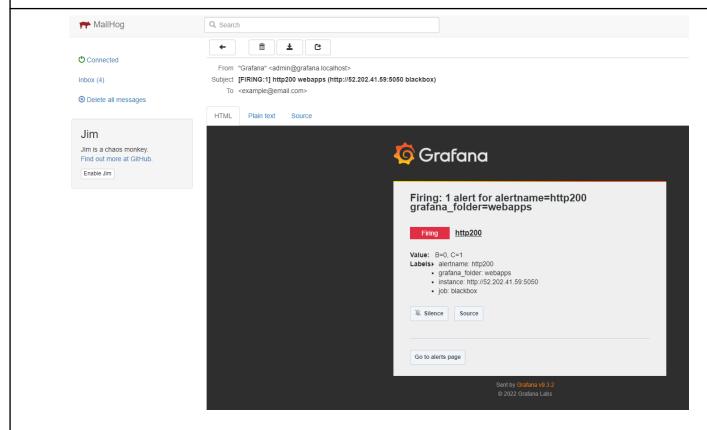| |
|---|
| 1. The development team wants to release an emergency hotfix to production. Identify two roles of the SRE team who would be involved in this and why. |
| *SRE team would had peovided incident response as well as contribution to post-mortem analysis ofthe case that finally resulted into the emergency hotfix..* |
| 2. The development team is in the early stages of planning to build a new product. Identify two roles of the SRE team that should be invited to the meeting and why. |
| *SRE team would contribute to all activities related to capacity planning of required ressources and in developing strategies in Monitoring & Alerting of the future system.* |
| 3. The emergency hotfix from question 1 was applied and is causing major issues in production. Which SRE role would primarily be involved in mitigating these issues? |
| *Again incident response since the hotfix causes major production issues to be tackled together with affected teams.* |

Team Formation and Workflow Identification

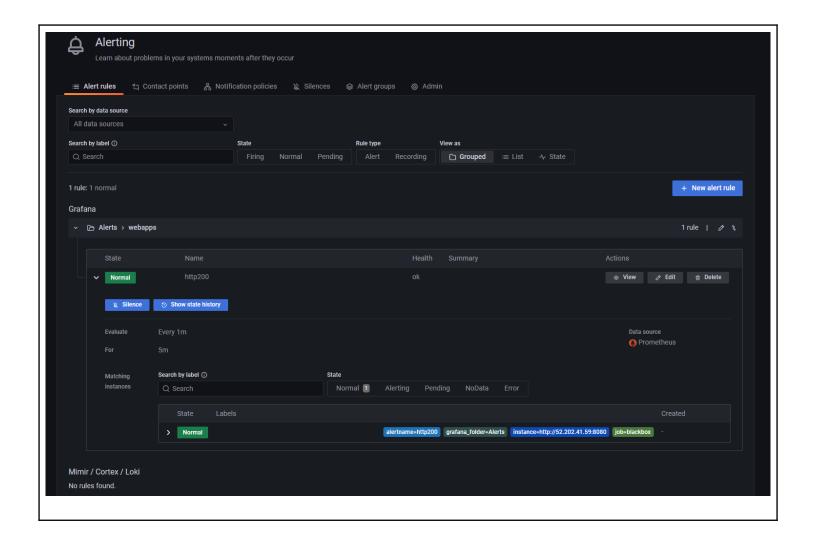| API Monitoring and Notifications |
|---|
| Display the status of an API endpoint: Provide a screenshot of the Grafana dashboard that will show at which point the API is unhealthy (non-200 HTTP code), and when it becomes healthy again (200 HTTP code). |
| |
| Create a notification channel: Provide a screenshot of the Grafana notification which shows the summary of the issue and when it occurred. |
| |
| Configure alert rules: Provide a screenshot of the alert rules list in Grafana. |

Applying the Concepts

Graph 1

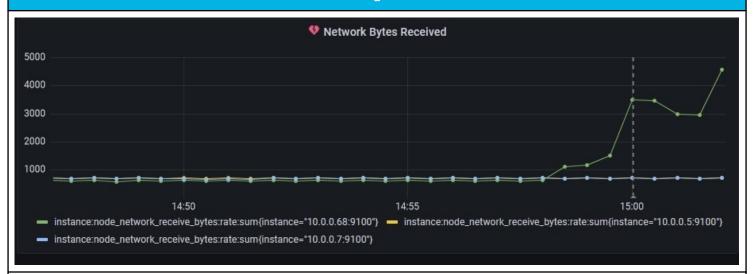| |
|---|
| 4a. Given the above graph, where does it show that the API endpoint is down? Where on the graph does this show that the API is healthy again? |
| *The service went down around 15:26 and was up again around 15:37.* |
| 4b. If there was no SRE team, how would this outage affect customers? |
| *Customers would had erxperienced a total service failure for around 11 minutes, since the server did not repond with 200 during that time.* |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? |
| *Setup blackbox exporter to test the endpoint continously, then build grafana dashboards pluas alerts on top.* |

Graph 2

5a. Given the above graph, which instance had the increase in traffic, and approximately how many bytes did it receive (feel free to round)?

10.0.0.68 showed increased traffic higher than 3kb.

5b. Which team members on the SRE team would be interested in this graph and why?

- SRE Monitoring Engineer, because he/she is responsible for the monitoring
- SRE Infrastructure Engineer, because he/she is responsible for the system infrastructure including network components
- oprionally the SRE System Architect, since he/she might has a broader view with additional inputs