Observing Cloud Resources

*SRE Project 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**  **(CPU, RAM, Disk, Network)** | **Dashboard** |
| instance:node\_cpu:rate:sum |  |
| node\_memory\_MemAvailable\_bytes |  |
| node\_disk\_io\_now |  |
| instance: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. | |
| *Release Manager and Infrastructure Engineer. Because the Release manager controls the release version and the infrastructure Engineer knows about the both code and operation* | |
| 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. | |
| *Team leader and System Architect. Both person are the most important person in team. They control the workflows of team, make plan and update the new tech* | |
| 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? | |
| *Release Manager* | |

# 

# 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? |
| *Endpoint is down between 15:26 and 15:36. It is healthy again from 15:36* |
| 4b. If there was no SRE team, how would this outage affect customers? |
| *The application is not stable. When the problems come up, the customers and IT-team take more time and effort to detect and aware the outage* |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? |
| *With Using the monitoring, alert* |

|  |
| --- |
| **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)? |
| *The instance 10.0.0.68:9100 had the increase in traffic and approximately 3500bytes* |
| 5b. Which team members on the SRE team would be interested in this graph and why? |
| *Monitoring engineer. They always take a look at the dashboard like (Grafana, Kibana, Elasticsearch...)* |

# 

# 