Observing Cloud Resources

*SRE Assessment Template*

# Categorize Responsibilities

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| **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 | |
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| **Host Metric**  **(CPU, RAM, Disk, Network)** | **Dashboard** |
| *CPU* |  |
| *RAM* |  |
| *Disk* |  |
| *Network* |  |
| **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. | |
| *1. Release Manager to have a smooth and reliable release process 2. Infrastructure engineer to update the configuration management* | |
| 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. | |
| *1. System Architect to plan and create a scalable infrastructure and make recommendations for new technologies*  *2. Release Manager to plan for change management and automate releases* | |
| 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 has he is responsible for executing the rollback procedures* | |

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# Team Formation and Workflow Identification

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| **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). |
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| Create a notification channel: Provide a screenshot of the Grafana notification which shows the summary of the issue and when it occurred. |
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| Configure alert rules: Provide a screenshot of the alert rules list in Grafana. |
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# Applying the Concepts

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| **Graph 1** |
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| 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? |
| *API endpoint is down from 15:27 to 15:37 (status code 500) API endpoint is healthy again at 15:37* |
| 4b. If there was no SRE team, how would this outage affect customers? |
| *This outage will cost the company a lot of money (5,600 -9000$ per minute), so the business will lose approx. 56,000 – 90,000 $ for 10 minutes outage* |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? |
| *Monitoring and Alerting system (synthetic monitoring such as blackbox to monitor the API endpoint)* |

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| **Graph 2** |
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| 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 that had increase in traffic is 10.0.0.68*  *Total bytes received until 15:05 is almost 4500 bytes* |
| 5b. Which team members on the SRE team would be interested in this graph and why? |
| *Infrastructure engineer to check the traffic and if there is a spike in the network that could cause a high latency in the system*  *Monitoring engineer to ensure that network bytes is within threshold and to set up a proper alerting rule* |

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