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* | Chart  Description automatically generated |
| *Memory* | Chart  Description automatically generated with medium confidence |
| *Disk* | Chart  Description automatically generated |
| *Network* | Graphical user interface  Description automatically generated with low confidence |
| **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 Roles to be involved are the release manager who will be in charge of executing code release and rollback if needed also the monitoring engineer who will be in charge of keeping track of the golden four* | |
| 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 Roles to be involved are the team lead to pilot and contribute to the architecture meeting, also the system architect who is responsible for creating infrastructure that is easily scalable and replicable.* | |
| 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? | |
| *The release manager will be involved in mitigating the issues and ensure that the release is rolled back* | |

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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). |
| *Chart  Description automatically generated with medium confidence* |
| Create a notification channel: Provide a screenshot of the Grafana notification which shows the summary of the issue and when it occurred. |
| Text  Description automatically generated  Graphical user interface, text  Description automatically generated |
| Configure alert rules: Provide a screenshot of the alert rules list in Grafana. |
| **Alert for API health check**  **A screenshot of a computer  Description automatically generated with medium confidence**    **Alert for host metric CPU**      **Alert for host metric Memory**  **A screenshot of a computer  Description automatically generated with medium confidence**  **A screenshot of a computer  Description automatically generated**  **Alert for host metric Disk I/O**      **Alert for host metric Network**  A screenshot of a computer  Description automatically generated with medium confidence |

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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? |
| *The API went down at 15:27 (status code 500) and back healthy (status code 200) at 15:36* |
| 4b. If there was no SRE team, how would this outage affect customers? |
| *The customers wouldn’t be able to access the API due the outage* |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? |
| *SRE team could put in place an alerting system to detect when the outage occurs.* |

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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 with IP 10.0.0.68 had the increase in traffic and it did receive approximately 4800 bytes* |
| 5b. Which team members on the SRE team would be interested in this graph and why? |
| *Team members who could be interested in the following graphs are system architects because they might need to review the architecture and highlights any short comings, also the Monitoring Engineer since they they would understand networking and knows how to manage traffic load.* |

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