Observing Cloud Resources

*SRE Project Template*

# Categorize Responsibilities

| **Prometheus and Grafana Screenshots** | | |
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| 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** | |
| *CPU % Metric* |  | |
| Available Memory in bytes |  | |
| Network Received in bytes |  | |
| Disk I/O |  | |
| **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 - He/She is responsible for the change management (hotfix deployment is a change) and he/she is also responsible for the role back and CI / CD.*  *Infrastructure Engineer - He/She is responsible for planning/executing system patches/updates.* | | |
| 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. | | |
| *System Architect - He/she makes recommendations for new technologies and the integration of the new technologies.*  *Team Lead - He/she contributes to architecture meetings and he/she forms the workflows of the team.* | | |
| 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 - He/She is responsible for performing the role back. So he/she can make sure that production is ASAP back online.* | | |

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# Team Formation and Workflow Identification

| **API Monitoring and Notifications** | | |
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| 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. | | |
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| Configure alert rules: Provide a screenshot of the alert rules list in Grafana. | | |
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# Applying the Concepts

| **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? | | |
| *Down: approx: 15:27*  *Healthy again approx: 15:37* | | |
| 4b. If there was no SRE team, how would this outage affect customers? | | |
| *The website would not be available.* | | |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? | | |
| *Sent out a notification to the team.* | | |

| **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)? | | |
| *[TODO: Type your answer here]* | | |
| 5b. Which team members on the SRE team would be interested in this graph and why? | | |
| *[TODO: Type your answer here]* | | |

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