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 %* |  |
| Network Received |  |
| *Disk I/O* |  |
| *Available Memory* |  |
| **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 -- who is in charge of change management, code releases, and execute the release, rollback procedures  Infrastructure Engineer -- who is responsible for planning and executing system patches or 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. | |
| *Team Lead -- who directs the work for SRE team, and forms workflows of the team*  *System Architect -- the one to create scalable infrastructure and diagram/document, also make the recommendation for new technologies* | |
| 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 -- the person to execute and rollback if an update was failed* | |

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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). |
| Adding SG |
| 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? |
| *Down 15:27*  *Healthy again 15:37* |
| 4b. If there was no SRE team, how would this outage affect customers? |
| *Client cannot access to website/app during that time; example for banking, transaction cannot be made, for medical, life signal cannot be sent to control device… and those issues will be prolonged because lack of SRE team, and customer has to complain by call, email, ticket and wait for it to be solved.* |
| 4c. What could be put in place so that the SRE team could know of the outage before the customer does? |
| *Monitoring engineer monitor system by host metrics and send alert automatically to SRE team.* |

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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)? |
| *10.0.0.68 instance had increase in traffic with about 4800 bytes received at 15:02* |
| 5b. Which team members on the SRE team would be interested in this graph and why? |
| *Monitoring Engineer - who is the first one to know of an incident*  *System Architect also need to be aware since he is the one who create scalable infrastructure, this system might need to be scaled* |

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