Avail SRE Support and Operations Questions

1. **Scripting (Bash / Python) (Give any 2 from below. Make sure they provide satisfactory answer before proceeding to next level)**
2. Write a python/shell script to find the current resource utilization and alert when it exceeds threshold for continuous 5 minutes

Resources to monitor: CPU, Memory, Disk

Threshold value: 80%

1. Write a python/shell script to find exceptions or errors in log for every minute and notify if it occurs

Path of the logfile: /var/log/app/web.log

1. Write a program to clean up data in a table which is greater than 30 days old.

Table name: transaction\_metadata

Columns: inserted\_at (timestamp), user\_id (integer), session\_id(string), amount(float), flag (Boolean)

1. Write a script to list all the differences between two directories
2. **Unix/Linux commands (Give any 3 below)**

a.Linux command to list all the files that are modified in last one week in a given

directory recursively. Dir name: /opt/apache/webapp/

1. Linux command to create a user and add it to an existing group
2. Linux command to display only the 3rd, 4th and last column of a given file
3. Curl command to download a file from the given url and save it with different name
4. **Troubleshooting**

a. Troubleshooting steps when you encounter http code 500 while accessing an

application

1. Troubleshooting steps and commands to resolve a connectivity issue between a client and server
2. Troubleshooting steps to see if a given port is open or closed
3. **Security and system operations**

a. What is a wildcard certificate? When to use it?

b. What is a zombie process?

c. How to run a program/job in background and how to bring it foreground?

d. What is the difference between a soft link and a hard link? When to use a hardlink over a softlink?

1. Remove all "\*.pyc" files from testdir recursively
2. Steps/commands to mount a volume to an instance or VM.
3. Describe what happens when you type www.google.com into the Browser
4. Describe Linux booting process/steps
5. Describe Mac booting process/steps
6. Describe how a MDM tool operates. What are the different MDM tools you’re familiar with
7. Any experience/exposure on tools like jenkins, monitoring (nagios/icinga), ansible, terraform, aws services.
8. Familiarity with Splunk or Kibana dashboards

1. **SRE functions**

a. Define SLO (Service Level Objectives)

b. What are Runbooks

c. Difference between Host monitoring and Application monitoring (APM)

d. What is Blue-Green deployment model

e. Familiarity to on-call setup, Remote desktop support

f. What is proactive monitoring and reactive monitoring