**Devops Engineer Assignment**

**Task 1**

Create a new script (processcheck.sh). Enabling short the Top 5 Running Processes, this sorting would be basis Highest Memory and CPU Usage by the server.

**Details:** The result generated from this script, should be recorded in historical logs with current date format file into /var/log/utilization folder

Ex: /var/log/utilization/report-22Oct2019

**Task 2 (Continuation to task 1)**

Deploy this script by using ansible playbook automation process, on other 100 server.

**Details:** Create a ansible playbook simple yml file enabling the following task:

• Create new user “monitor” and set password

• Create directory /opt/script. 'Owner of directory' and 'group of directory’ should be "monitor" with 0755 permission mode

• Transfer processcheck.sh script file into /opt/script

• Add this script in cronjob with a schedule of, Mon to Fri every 2 min.

**Task 3:**

**Containerize a setup with Docker-compose.yaml**

**Details:** Define two services, database and wordpress. Each service should runs one image and it will create a separate container when docker-compose is run.

**Database service:**

* Uses the mysql: 5.7 image. In the image will pull it from the Docker Hub public repository.
* Uses the restart always policy which will instruct the container to always restart.
* Creates a named volume sql\_data to make the database persistent.

Defines the environment variables for the mysql:5.7 image.

Create database wordpress

**wordpress service:**

* Uses the wordpress image from the Docker Hub public repository.
* Uses the restart always policy which will instruct the container to always restart.
* Mounts the app\_data directory on the host to /var/www/html inside the container.
* Forwards the exposed port 80 on the container to port 8081 on the host machine.
* Defines the environment variables for the wordpress image.

Db name: wordpress

Db port: 3306

Db user: root

DB password: abc@123

The depends\_on instruction defines the dependency between the two services. In this example, db will be started before wordpress.

From the project directory, spin up the WordPress application using the following command: