

- a) Design a three tier application to be deployed on AWS taking into account high availability and disaster recovery. You can use any AWS service to obtain high availability. Describe how to make fully automated. Please provide diagrams.
- b) I would like to have a fully serverless backend on AWS where I could get data from a database.
 - 1. Which services would I need to achieve this?
 - 2. Provide a template where it describes backend to be deployed as well with services associated with this. You can use any programming language of the list: python, go, node. This template should be a working template and not just a mock up. You can choose the services that would be adequate for this situation.
- c) produce a Dockerfile that would allow me to create a nginx service with a sample page. This page would be loaded on port 5000.
- d) For the three tier application that was designed on a), please describe what I would need to monitor it and having logging capabilities to it. You choose from all AWS services which ones would suit this situation.

All the diagrams, template files and Dockerfiles should be uploaded to a GitHub repo and then give the url back for evaluation.