## DevOps as a Managed Services Challenge

Note: The provided diagram uses AWS shapes, however you are free to use your cloud provider of choice.

1. Create a local Git repository for your work (do not commit code to any external repository)
2. Using the attached architecture diagram and either Terraform, CloudFormation, reproduce the architecture as code for one of the following providers
   1. AWS
   2. GCP
   3. Azure
3. Using an automation tool of your choice, deploy the server instances / containers as shown in the provided Architecture Diagram.
4. Write and automatically deploy, a simple index.html which will output the instance / container hostname to the end user for the webserver.
5. Once the environment is up and running use jmeter, or another load testing tool to generate traffic on your webserver.
6. Using a programming language of your choosing (Python, GOLang, Java, JavaScript, Powershell) Note: no bash or perl, leverage the cloud provider’s client API to write the web-server logs into a hostname-specific storage bucket. Deploy your script using your cloud providers “serverless” product offering.

When complete, ensure you have added and committed all of your code, archive it and submit to Pythian to review.

