QA Consulting

QACDEVPUP – DEPLOYMENT PROJECT

DEPLOYING DOCKER CONTAINERS TO THE CLOUD

Project Overview

This project utilises all of the skills gained throughout the DevOps course. You are tasked with using Ansible to configure your Docker containers which should be deployed on to Amazon Web Services.

In teams, you will use Ansible to set up your Docker containers that host a Continuous Integration Pipeline. You are responsible for container design, this includes which tools you will include in your pipeline. Some have been listed as a guide below, but it is for you to decide which tools to use.

These Docker containers should be deployed into an AWS Environment, so that you're CI Pipeline is live and hosted in the cloud. You need to consider how this works and then implement the solution.

Suggested tools to be included within containers include;

- A CI Tool
- A Code Review Tool
- A Build Management Tool

- A Monitoring Tool
- An Artifact Repository
- A Project Tracker

Deliverables

All of your work **must** be uploaded to a Source Code Repository. This should include script files, playbooks, diagrams, Dockerfiles and anything else that you have used to build your project. You should be aware of any commands you have executed so you can explain how you achieved what you have.

You will also produce a group presentation outlining

1. A project overview
   a. Describe what you were tasked with doing.
2. The tools you selected
   a. Describe the tools you chose to use, and why you selected this tool, over others.
3. How you completed the project
   a. What methodology did you choose, how did you execute this. Who took the lead and why? Etc..
4. Who contributed what
   a. Describing everyones role with an outline of who worked on what section.
5. Conclusion
   a. Summarise what went well, what did not, what you'd do the next time.

DEADLINE

- Hand-in; **TBA**
- Presentation; **TBA**