Lab 1 – Agile Party Planning

Your team have been contracted to organise and host a party.

The requirements are below:

- Pool Party
- Budget of £200,000
- Minimum of 200 people attending
- Food and drink served
- Entertainment provided
- Party must take place in 13 weeks' time

Your task is to design the party and pitch your solution through a presentation. The presentation should be no longer than 20 minutes, and you should expect questions about your solution.

Things to think about:

- You need to work in an Agile way, following the SCRUM framework
- You must carry out a MoSCoW Prioritisation
- You must provide a Product Backlog
- You must provide an overview of the first Sprint
- You must provide an initial outline of the following Sprints
- You must carry out a risk assessment
- You may want to provide an overview of costs
- You may want to design a logo and poster for the party, though this is not essential

Use software to aid you in your task, where possible!

Lab 2 - Design a CI Pipeline

In teams: research different technologies that can be used at each stage of the CI Pipeline, and use them to design your own CI Pipeline:

- Why have you chosen the product?
- How much does using this product cost?
- What are the alternatives to using this product?

Be prepared to present your findings to the class.

Lab 3 - CD in the Real World

In teams: research two companies that use either continuous delivery or continuous deployment:

- What benefit does working in this way bring the company?
- What would be the alternative ways of working?
- How does working like this affect the end user?

Be prepared to present your findings to the class.

Lab 4 - Researching Technologies

There are many IaC, configuration management and container orchestration tools available and this module has only scratched the surface. You will go into more depth with these tools later on in your apprenticeship, but it's worth having a general understanding of them now.

You will be split into three teams and assigned either Infrastructure as Code, Configuration Management or Container Orchestration as your topic to research. You must research a number of tools (one tool per team member) that can be used for your team's assigned topic.

Remember to consider tools as part of cloud provider offerings!