



IMS APPLICATION VIRTUALISED ENVIRONMENT

CI PROJECT

Time allowed: 1 Weeks

Continuous Development Environments

Document Outline

This is the Project specification for the IMS deployment environment to be used as the accompanying project for the Continuous Development Environments. This project is intended to be completed over the course of one week and will build on the project of the previous course, Scala.

Project Overview

This project is to build a virtualised environment for the IMS which you should be developing as part of the Scala course. This will require the creation of a Linux virtual machine and the installation of Docker among other tools. You will use a Docker container which will contain your Scala Application. The virtualised environment should be configured to work with your Git repository where your application is being developed. Remember you will be required to be capable of managing this container.

Deliverables

This project will be submitted with the short presentation for your Scala project along with any relevant documentation. You will also be required to submit the virtualised image you created in a zip folder.

Advice

It can be easy to overlook the complexity involved in creating your virtualised image. Planning is an important part of ensuring that you don't get "lost" in the project as you will now be working on two projects concurrently. A set of advised steps are:

Stage 1:

Create a plan for your CI Project so that you fully understand how it should work.

Stage 2:

Create a Linux Virtual Machine, ensuring you install the appropriate tools for your environment.

Stage 3:

Create a Dockerfile with your configuration for containing your Scala Application.

Stage 4:

Setup the Docker container by running your Dockerfile

Stage 5:

Test the application to ensure that it works correctly and as designed, showing your GUI of your application.