

SIT323/SIT737- Cloud Native Application Development

5.2D: Dockerization- Publishing the microservice into the cloud

Overview

In this task, you can continue working on your task in 5.1P to make it ready for production deployment to a private container registry hosted in the cloud.

The required tools for doing this task are as follows:

- Git (<https://github.com>)
- Visual Studio (<https://code.visualstudio.com/>)
- Node.js (<https://nodejs.org/en/download/>)
- Docker

Instructions

You can publish your microservice with the following steps:

1. Create your own private container registry on **google cloud**. You only need to do this the first time we publish an image. Later, when publish new versions of the image and images for other microservices, you can simply reuse this same registry.
2. Before publishing, you must authenticate with the registry using the docker
3. login command.
4. Use the docker push command to upload the image to the registry. (This is the step that actually publishes our microservice.)
5. Use docker run again to check that it can boot your microservice from the published image.

Submission Details

- Once you are done, push your code and Dockerfile into your repo, giving the repository the following name sit323-2025-prac5d, ultimately this should read as <https://github.com/username/sit323-2025-prac5d>;
- Ensure that detailed documentation is included with your code, offering step-by-step instructions that explain the process undertaken for this part. Failure to provide this documentation will result in an incomplete mark for the task.