SIT323/SIT737- Cloud Native Application Development 5.3D: Configuring networking between containers

Overview

This task involves configuring a Docker network to enable communication between multiple microservices running in separate containers. You can apply the instruction of this tasks on your previous created microservices or any other apps that you are developing.

Part I

Requirements

You may need to follow below steps to configure networking between containers:

- Create a Docker network- using Docker compose
- Configure container network settings
- Set container names or IP addresses: Optionally, set container names or IP addresses in a configuration file or environment variables to make it easier for the microservices to discover each other.
- Test connectivity: Test the connectivity between the microservices by sending requests from one container to another using the container names or IP addresses. *Use tools like curl or postman to send requests to the microservice endpoints.*

Part II- Only for SIT737 Students

In addition to above steps, what do you suggest for monitoring the network traffic between containers? Is there any solution using Docker dashboard to perform monitoring of your configured network?

Submission Details

Once you are done, push your code and Dockerfile into your repo, giving the repository the following name sit323/737-2023-t1-prac5d, ultimately this should read as https://github.com/username/sit323/737-2023-t1-prac5d. You can copy/paste the link of your public repo for your submission through the OnTrack (screenshot of the steps/codes is optional to support your submission).