A10: Micro-services Assignment Task 2

In this task we created various Dockerfiles with the purpose of building a docker images from each of our micro-services that we have created in the previous task. Those images then are pushed to the our docker-hub repository so we can use those images to deploy in the kubernetes-dashboard. Each micro-service is deployed with three nodes each.

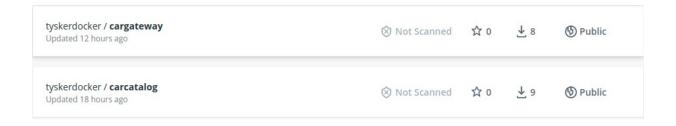
1. Creating a Dockerfile

FROM openjdk:12-alpine COPY carcatalog.jar /carcatalog.jar EXPOSE 8090 CMD ["java" , "-jar", "/carcatalog.jar"]

This image is based on a alpine Linux image with java 12 included. It copies a jar file and expose the API on port 8090. The command runs the jar file.

2. Building, tag and push the image to the repo

- (a) `docker build -tag [name of the tag]:[version]`
- (b) `docker tag [image id] [docker username]/[image name]:tag]`
- (c) `docker push [docker username]/[image name]`



Docker Hub

3. Deploying the images into Kubernetes

- 1. logging into Kubernetes dashboard
- 2. adding the images to kubernetes cluster



4. Accessing the API internal

On one of the deployment is accessible on PORT 8090 and one on 8080.