Assignment 3: Virtualization using Docker

Web Services and Cloud Based System 2020

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1   Assignment 3.1

1.1   Implementation

Docker is like a lightweight virtual machine, but not a real VM. I really like it! We can use existing images or create our own images. Then use the image to build the containers. Here, we built two images for url-shortener and login service individually, then used the images to build two containers.

In order to build an image, we put relevant files in a directory, and created a Dockerfile, where all things needed to deploy an image were written, in this directory. **docker image build -t [name] .** to create an image, **docker container run -it [name] /bin/bash** to generate a container. After the container was built, **python3 app.py** to start the service.