Docker Volumes IN720 Virtualisation

Introduction

In this lab we are going to play around with Docker volumes to see how we can create and seed volumes with data that we can then share across other containers.

1 Build a data container

Build a new container from a Dockerfile that with the following:

- 1. Create a directory, /data inside your container.
- 2. In /data, create files named foo, bar, and baz.
- 3. Make /data a volume.

Build your image and launch a container called vol_lab_1 from it.

2 Find your volume on the host system

In another ssh session, inspect your new container to find its volumes with the command

```
sudo docker inspect -f .Volumes vol_lab_1
```

Once you find the directory on the host that stores your volume, modify one of the files inside it. Attach a terminal to vol_lab_1 and see if the changes on the host system are visible inside the container.

3 Using the volume in another container

Shut down vol_lab_1. Start a new container with the command

```
sudo docker run -it -volumes-from vol_lab_1 ubuntu /bin/bash
```

When your new container starts, inspect the /data volume inside it. Make some changes inside the volume and then shut down this container. Then, check the volume directory on the host system and see if your changes are visible there.