

# Solutions

## Exercise 1 – Introduction To Docker

- 1 Download docker in your machine.

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg |  
sudo apt-key add -  
  
sudo apt-get update  
  
sudo apt-get install docker-ce docker-ce-cli containerd.io
```

- 2 Print to the console (“Hello World!”) using docker.

```
sudo docker run hello-world
```

- 3 Create user in docker hub.

```
https://hub.docker.com/signup?next=%2F%3Fref%3Dlogin
```

- 4 Pull the official latest image of ubuntu.

```
Docker pull ubuntu:latest
```

- 5 Run the new image and set the container’s name to be your name.

```
Docker run -it --name=vladi ubuntu
```

- 6 Check that the container really running.

```
Docker ps
```

- 7 Check from outside the container its IP

```
Docker inspect <Container’s ID>
```

## Exercise 2 – Creating Docker

- 1 Write dockerfile, place it in '/tmp/FirstCompose/apache/' folder with the next few settings.

```
>touch /tmp/FirstCompose/apache/htmlfile.html

<!DOCTYPE html>

<html>

<body>

<h2>HackerU</h2>

<iframe src="https://www.hackerusa.com" width="400px"
height="600px">

</iframe>

</body>

</html>

> Nano dockerfile

#Image#

FROM ubuntu:latest

#Run Commands#

RUN apt update

RUN apt install apache2 -y

ADD /htmlfile.html /var/www/html/htmlfile.html

RUN chmod 755 /var/www/html/htmlfile.html

#EntryPoint#

ENTRYPOINT service apache2 start && bash
```

## 2 Create another dockerfile in the “/tmp/FirstCompose/Client/”.

```
>nano /tmp/FirstCompose/client/dockerfile  
  
#Image#  
  
From debian:latest  
  
  
#Run Commands#  
  
RUN apt update  
  
RUN apt install curl -y
```