Cloud Computing

Practical 2

Using docker

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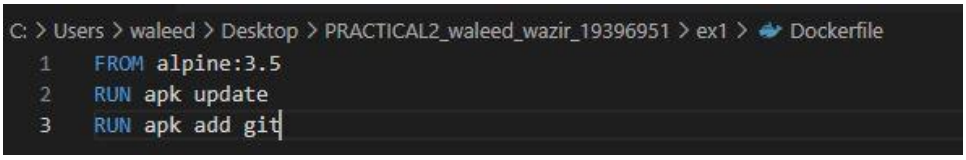
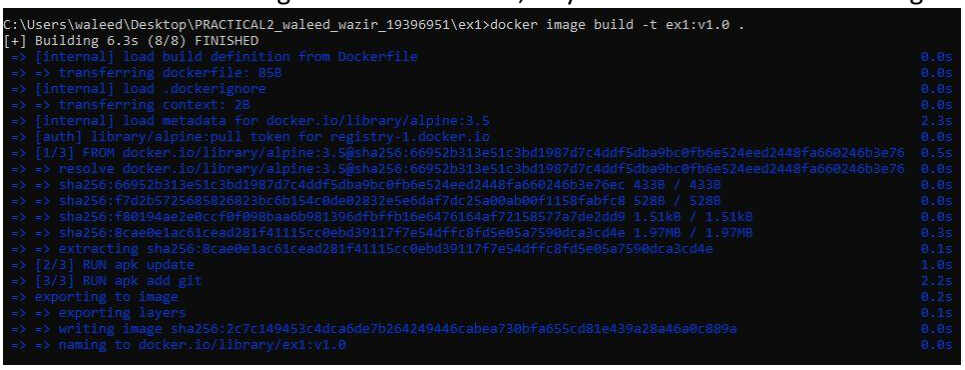
Exercise 1.

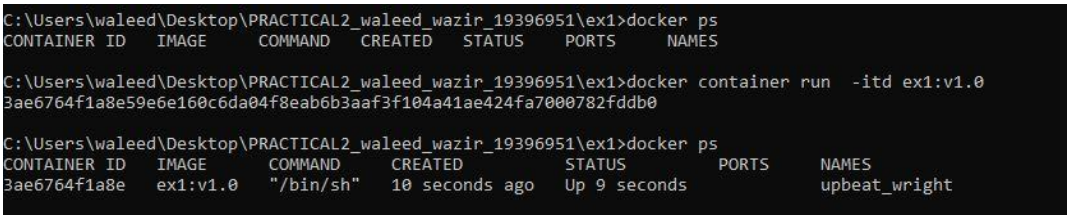
Task 1: To create an image with GIT installed I created a file called Dockerfile in the file is written some code as you can see in the picture below.



Task 2: I then put the dockerfile into folder "ex1" and opened up CMD where I then ran the file command - docker image build -t ex1:v1.0 ., as you can see below in the image.



Task 3: To create a container based on the image, I ran the command - docker container run -itd ex1:v1.0, this created the container called upbeat_wright based off the image. This also allows the container to run in the background, as we can see in the image below.



As we can see after running the command - docker container run -itd ex1:v1.0, I ran the command - docker ps, to check if there where any containers running in the background. The -itd is used to make to make the container interactive in order to be able to access bash and in order to make the container run in the background.

Task 4: To enter the container I used the docker attach command in the image below, and when I entered the container, I ran the command - git --version, which allowed us to verify if git was installed. The usability of docker attach command is to attach our terminals standared input and output and error to a running container using the containers ID, This allows us to view its ongoing output or to control it interactively, as though the commands were running directly in your terminal.