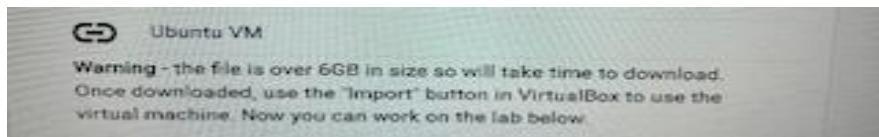


Creating a Dockerfile

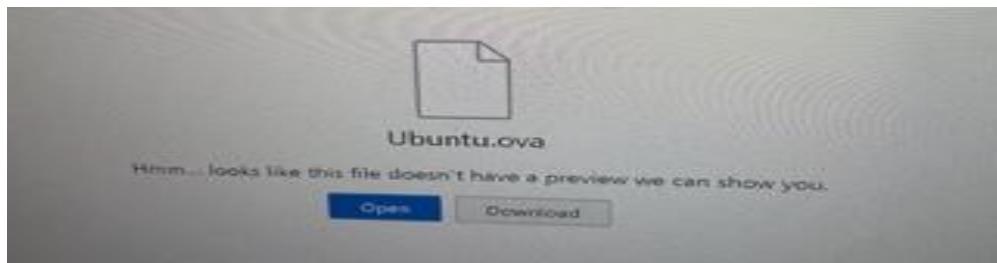
What is a docker file and why is it useful?

Before we start on how to create a docker file with the command lines we will need to have a clear understanding on what a docker is beforehand in simple words a docker file is a simple form of text based file which could be used to hold commands for the group to use and could be used to assemble pictures so consequently it is used to explain the commands.

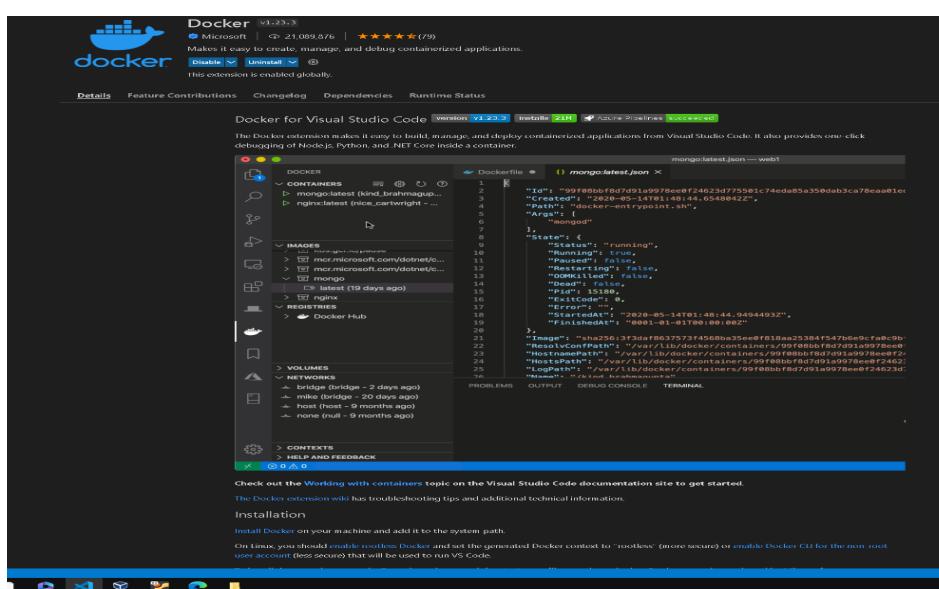
Step 1 - I have chosen to create a docker file on a linux virtual machine using the university of roehampton computers. On moodle we have a link that could give us access to download



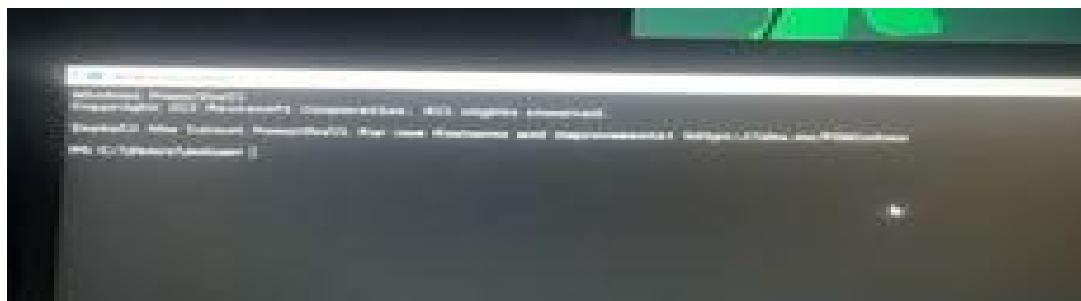
Step 2 - I downloaded VM virtualbox so I could bypass the admin restrictions on the computers.



Step 3 - Once the application was successfully installed i have opened visual studio and installed a extextaion named Docker.



Step 4 - Once the application was installed successfully ideal opened up a terminal on my Linux virtual machine, and then I added some simple command lines that would allow Dockerfile run and work



These are the command lines that I've used.

```
$ cd ~  
$ mkdir  
$ cd Docker  
$ touch Dockerfile  
$ vim Dockerfile
```

Bear in mind that I personally feel that it's easy to create Dockerfiles and store them in completely different directories. This is due to the fact that most or nearly every single one of the documents as well as directories are normally placed in the same directory during a docker build. In my view I feel like using only a single directory for one file e.g. images would be better in the sense of being small in size which leads to being well organised Dockerfile which allows the group to be more efficient and gives a clear cut understanding. For this reason I wrote MKDIR DOCKERFILE AND CD DOCKERFILE.

Step 5 - once you go to vim Dockerfile it would not be able to install as the command line is not supportive on the latest version so as you will see on the screenshot i have changed it to sd install Dockerfile.

The screenshot shows a terminal window titled "Ubuntu 1 [Running] - Oracle VM VirtualBox". The terminal session is as follows:

```
student@student-VirtualBox:~$ cd ~
student@student-VirtualBox:~$ mkdir Docker
student@student-VirtualBox:~/Docker$ touch Dockerfile
student@student-VirtualBox:~/Docker$ vim Dockerfile
Command 'vim' not found, but can be installed with:
sudo apt install vim             # Version 2:8.2-3995-1ubuntu2.1, or
sudo apt install vim-tiny        # Version 2:8.2-3995-1ubuntu2.1
sudo apt install neovim          # Version 0:0.6.1-3
sudo apt install vim-athena       # Version 2:8.2-3995-1ubuntu2
sudo apt install vim-gtk3         # Version 2:8.2-3995-1ubuntu2
sudo apt install vim-nox          # Version 2:8.2-3995-1ubuntu2
student@student-VirtualBox:~/Docker$ sudo apt install vim
[sudo] password for student:
[sudo] password for student:
Sorry, try again.
[sudo] Password for student:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package vim
student@student-VirtualBox:~/Docker$
```

End results

Once this was completed a blank page opened and in the bottom it said Dockerfile so therefore we have successfully created a docker and made a file and its working well without any errors.