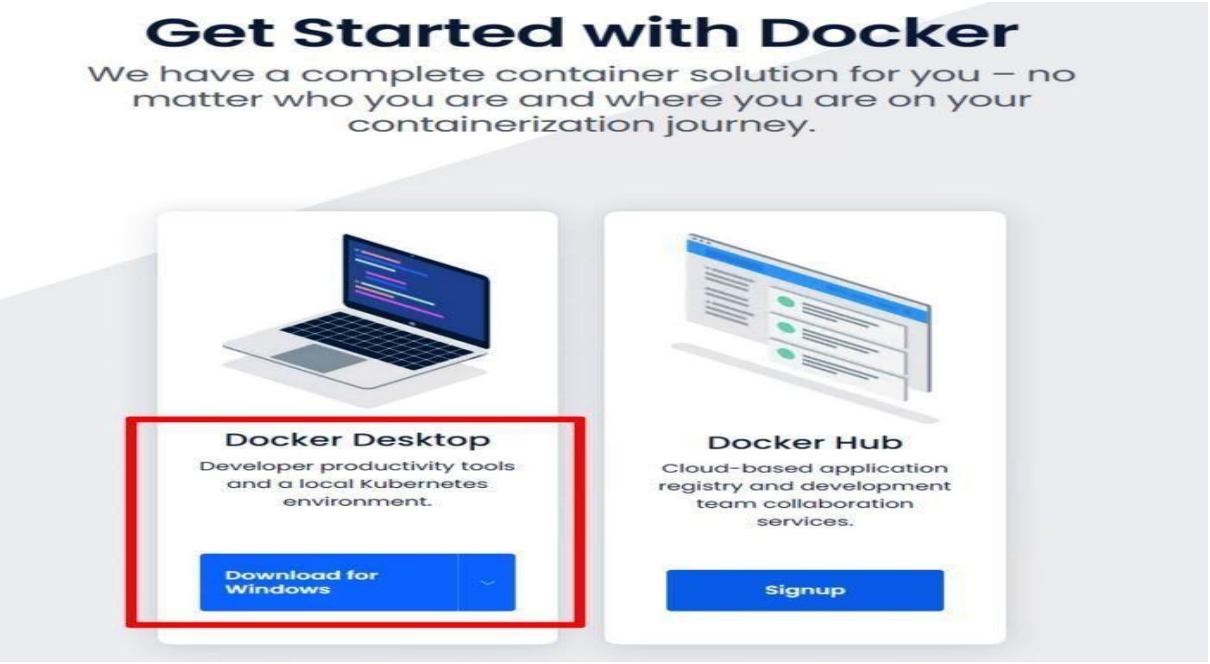
DEVELOPMENT ASSMENT - 7

CASE STUDY ON DOCKER

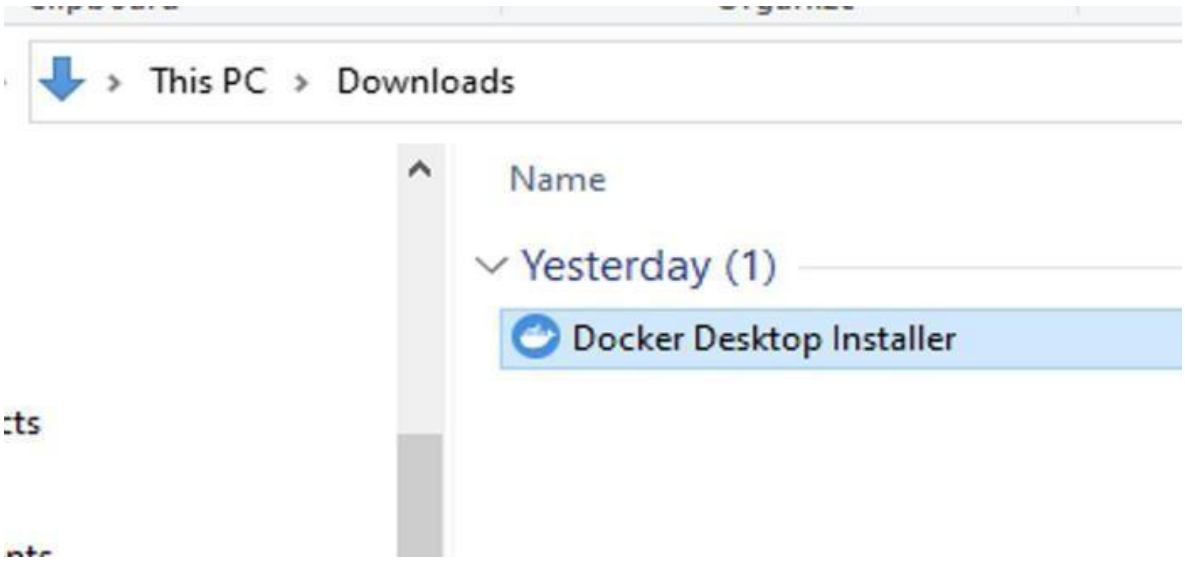
Aim of the Case Study: - Practice and execute Docker install docker in your system and create an image and print hello world.

Steps to install Docker: -

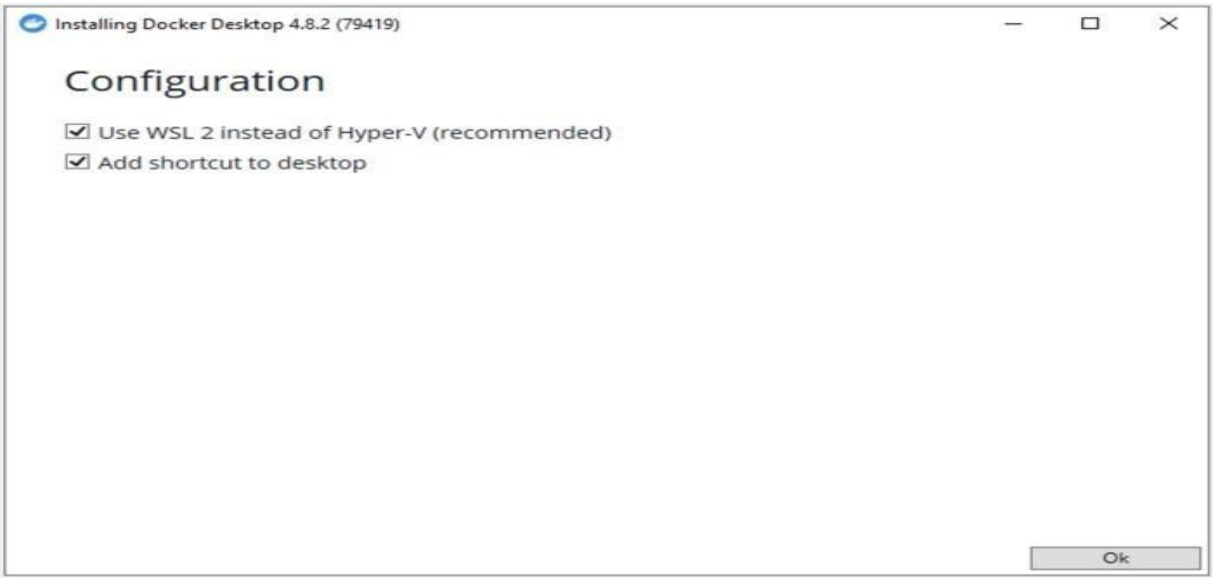
1. **Download Docker**



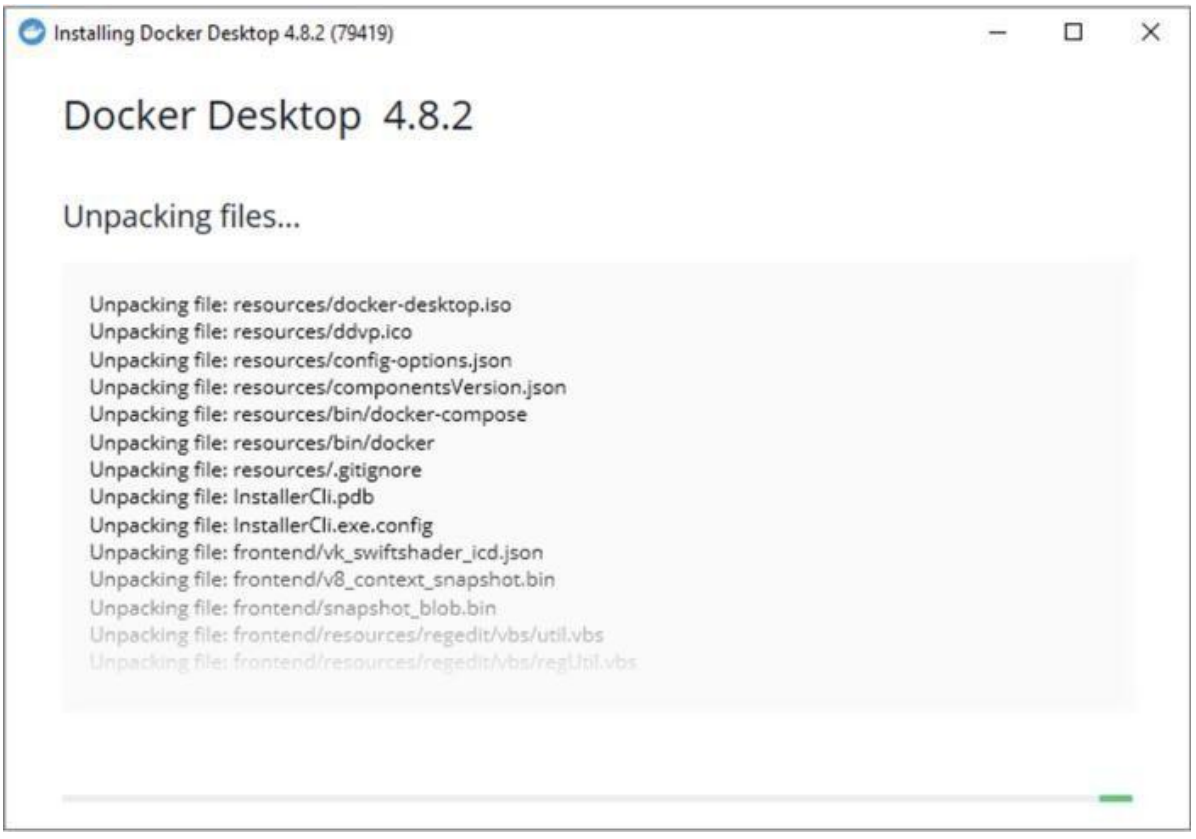
2. **Open Download Docker file**



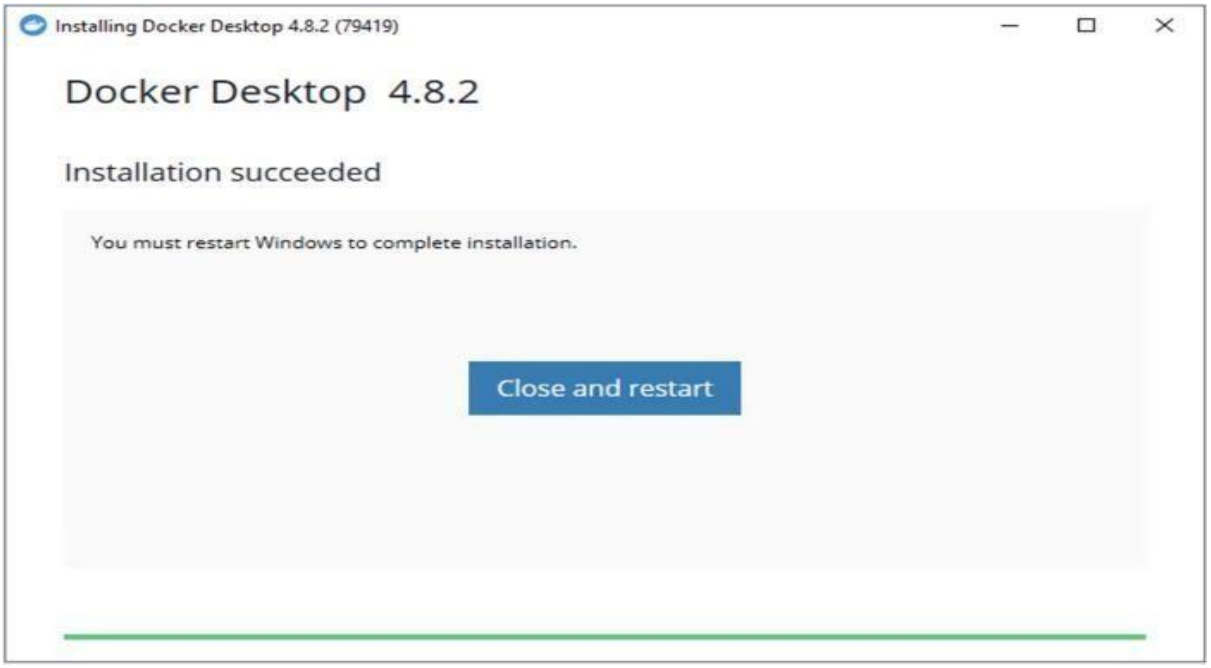
3. **Run the file**



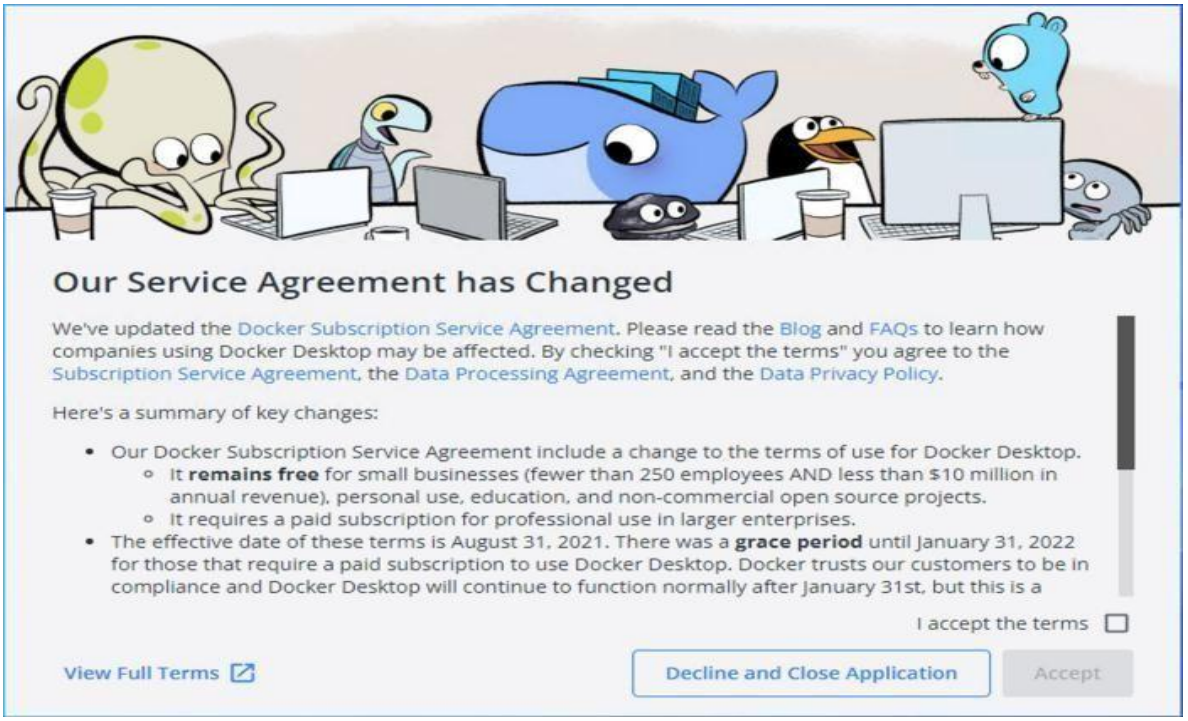
4. **Click Ok**



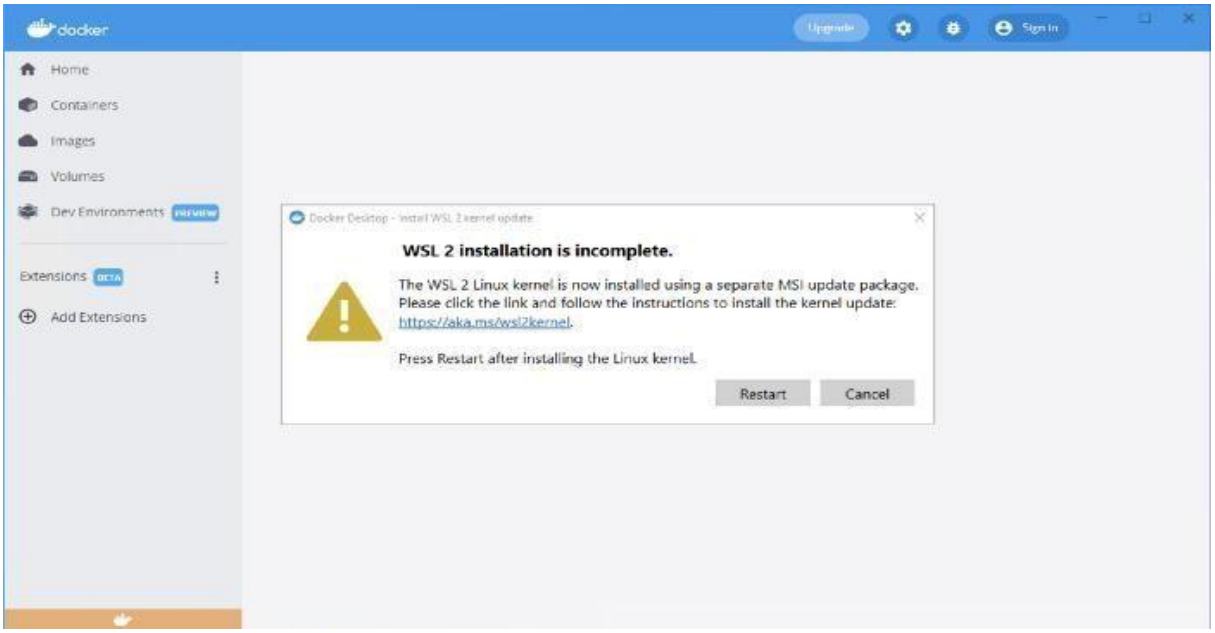
5. After installation Restart



6. Accept terms and condition



7. WSL 2 installation



Step 4 - Download the Linux kernel update package

1. Download the latest package:

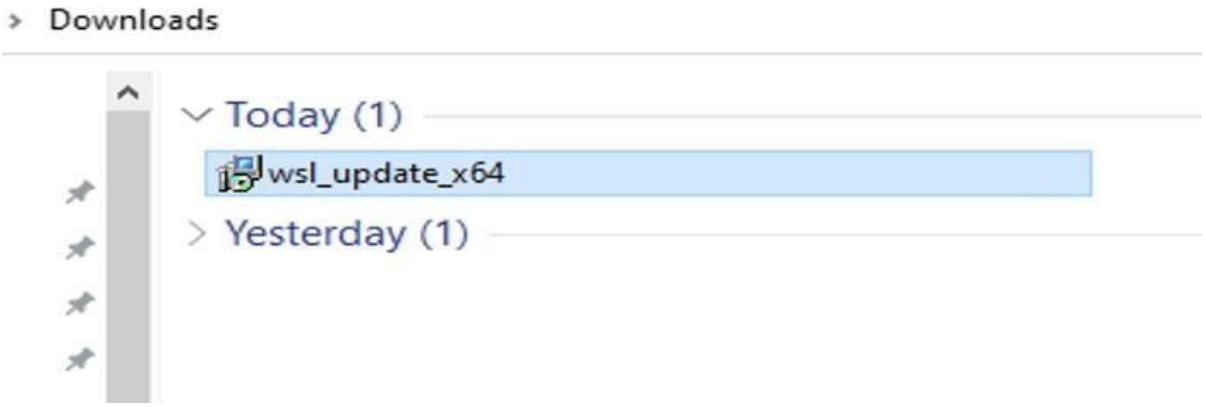
   - WSL2 Linux kernel update package for x64 machines 👈

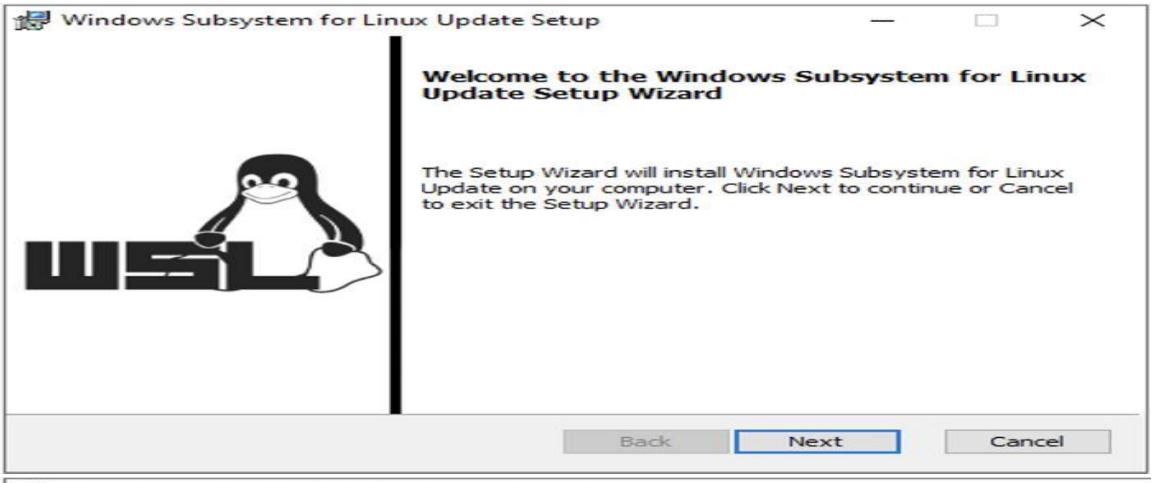
   ⓘ **Note**

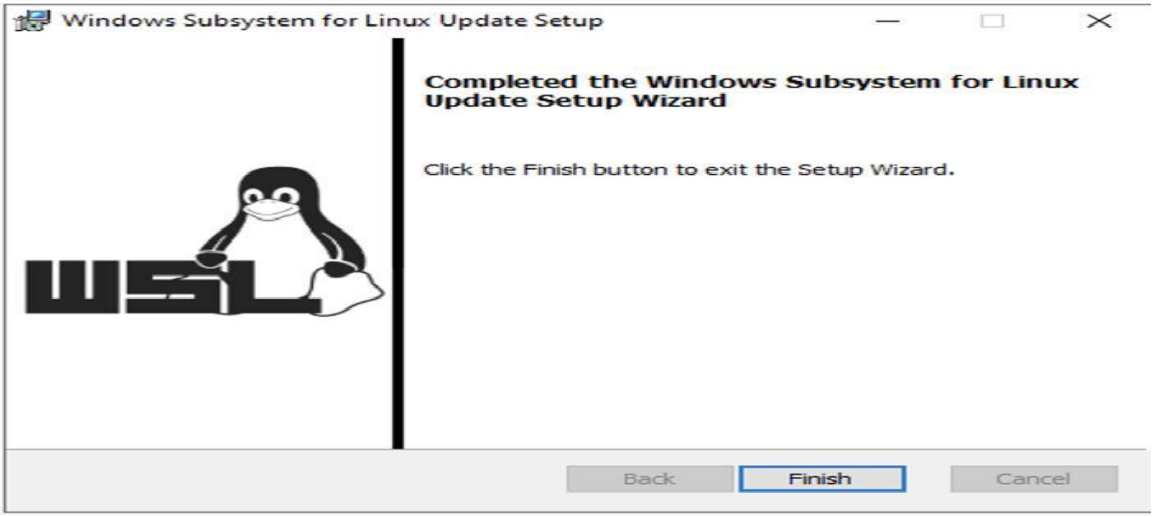
   If you're using an ARM64 machine, please download the **ARM64 package** instead. If you're not sure what kind of machine you have, open Command Prompt or PowerShell and enter: `systeminfo | find "System Type"`. **Caveat:** On non-English Windows versions, you might have to modify the search text, translating the "System Type" string. You may also need to escape the quotations for the find command. For example, in German `systeminfo | find '"Systemtyp"'`.

2. Run the update package downloaded in the previous step. (Double-click to run - you will be prompted for elevated permissions, select 'yes' to approve this installation.)

Once the installation is complete, move on to the next step - setting WSL 2 as your default version when installing new Linux distributions. (Skip this step if you want your new Linux installs to be set to WSL 1).

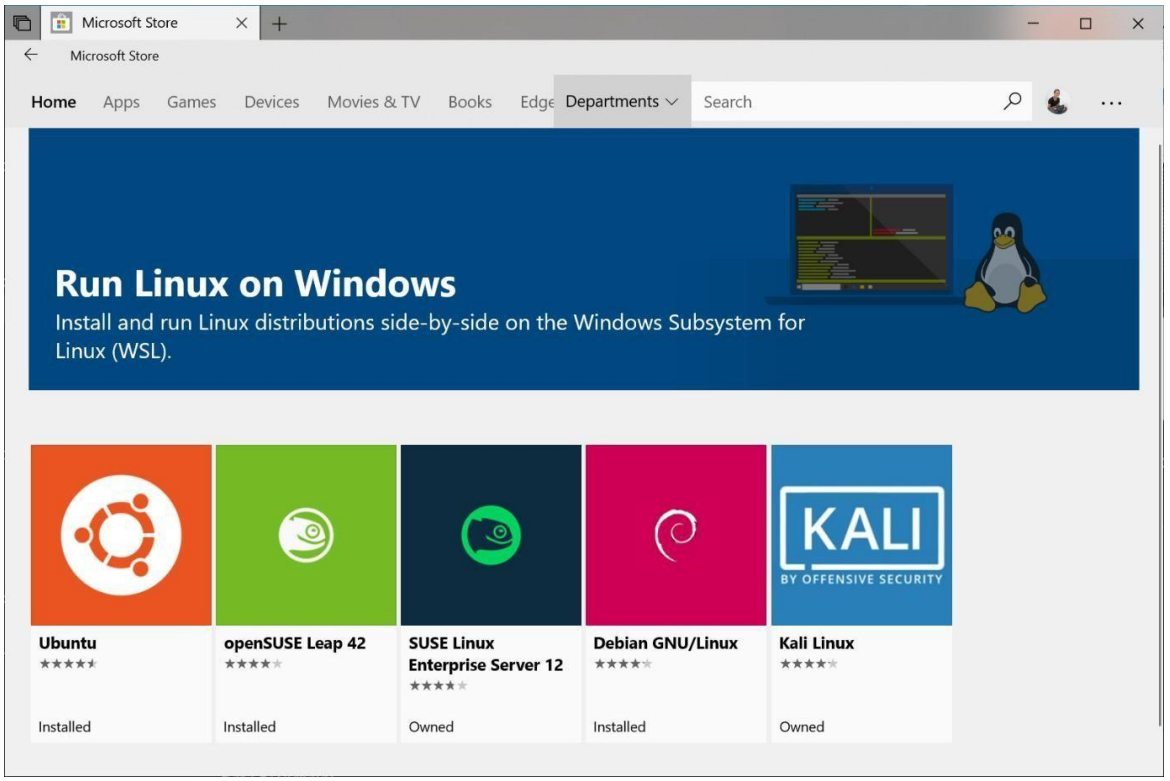

Downloads
Today (1)
wsl_update_x64
Yesterday (1)

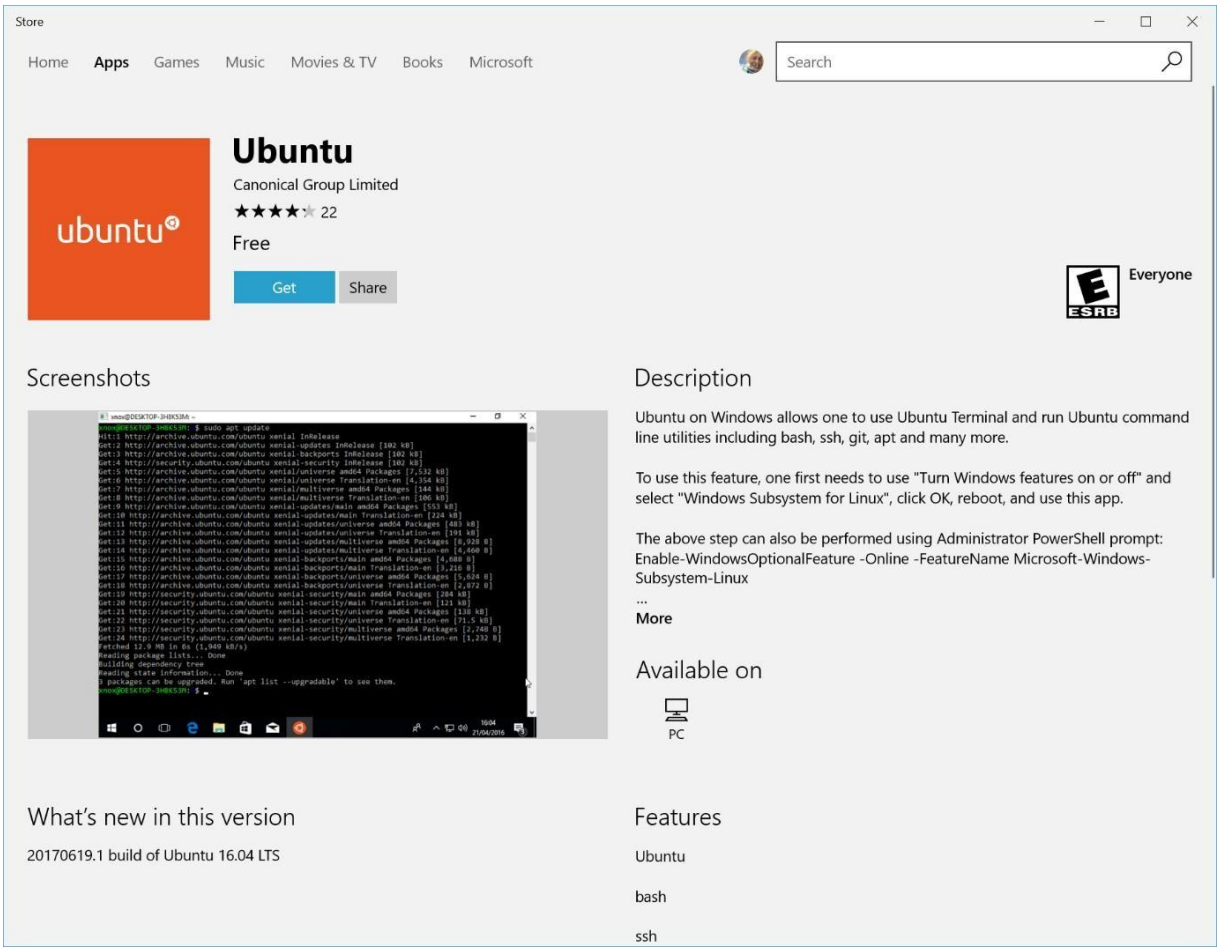

Windows Subsystem for Linux Update Setup
Welcome to the Windows Subsystem for Linux Update Setup Wizard
The Setup Wizard will install Windows Subsystem for Linux Update on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel


Windows Subsystem for Linux Update Setup
Completed the Windows Subsystem for Linux Update Setup Wizard
Click the Finish button to exit the Setup Wizard.
Back
Finish
Cancel

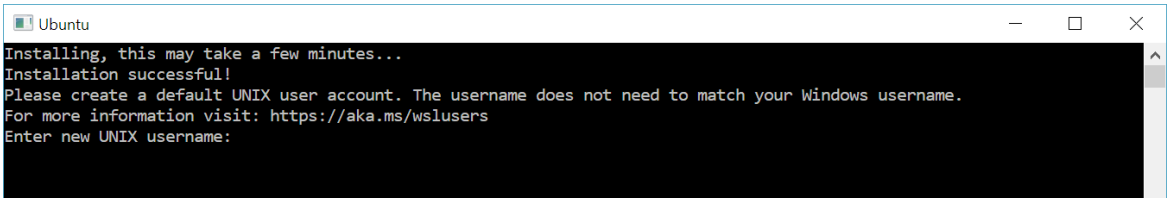
8. After WSL installation Restart ur Computer

9. Go to Microsoft store and install ubuntu

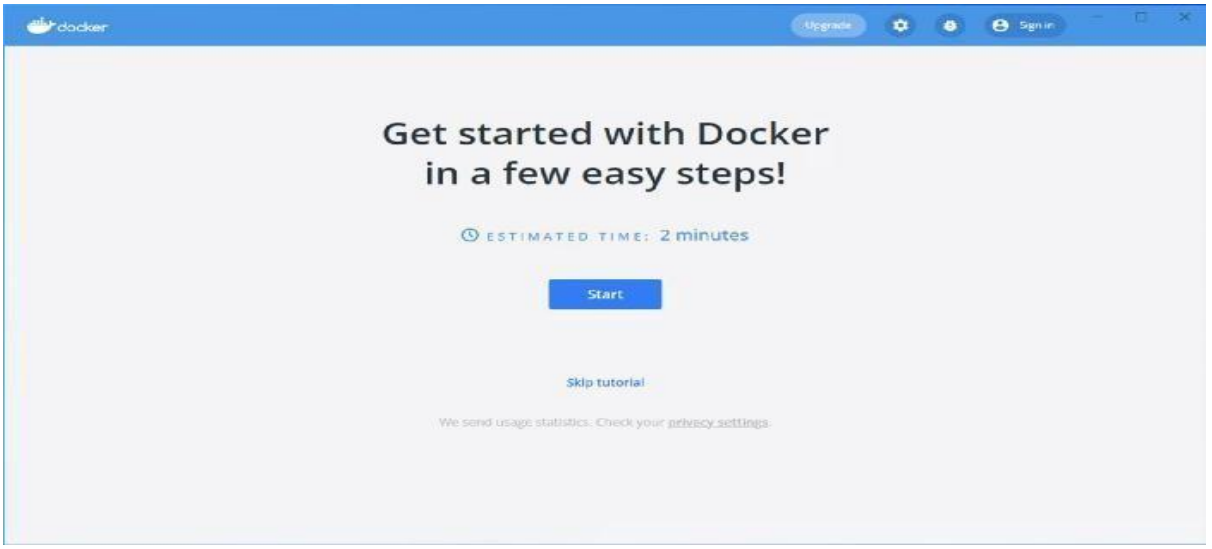


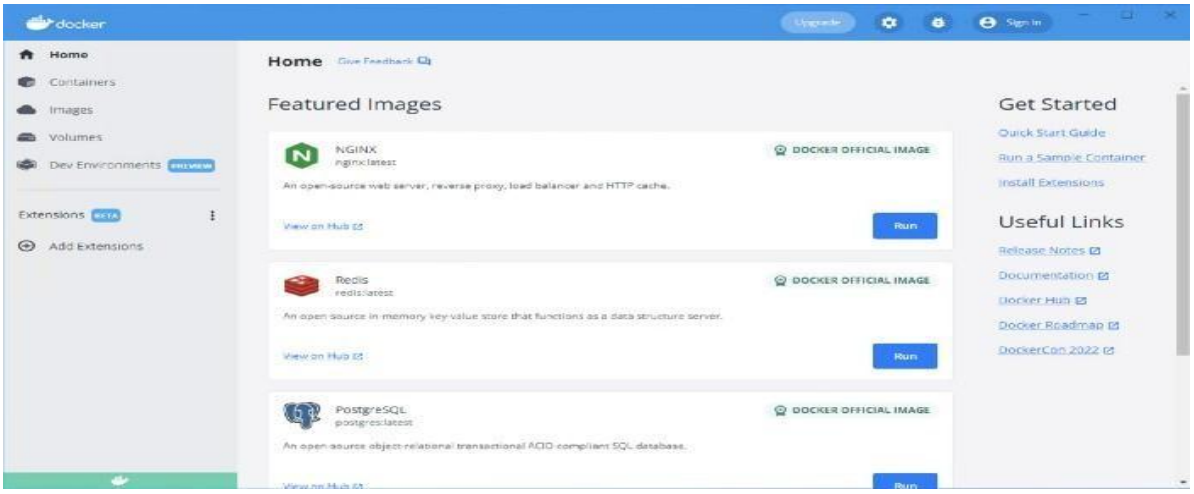


10. <u>After installation open it and enter New user name and password and close andrestart ur computer once</u>



10. Open Docker





DOCKER PROGRAM: -

Step 1

- Create a folder hello-docker
- Open this folder in VS code
- Create 2 files inside this app.js and Dockerfile

Step 2

In app,js
Console.log (“heloo Wrold”);
In Dockerfile
FROM node:alpine
COPY . /app
WORKDIR /app
CMD node app.js

Step 3

• Open Terminal in VS code
• docker build -t hello-docker .
• docker run hello-docker
(hello Docker should be printed)

Step 4

Docker image ls
(to view all the docker images in that hello-docker should be there)

OUTPUT: -