

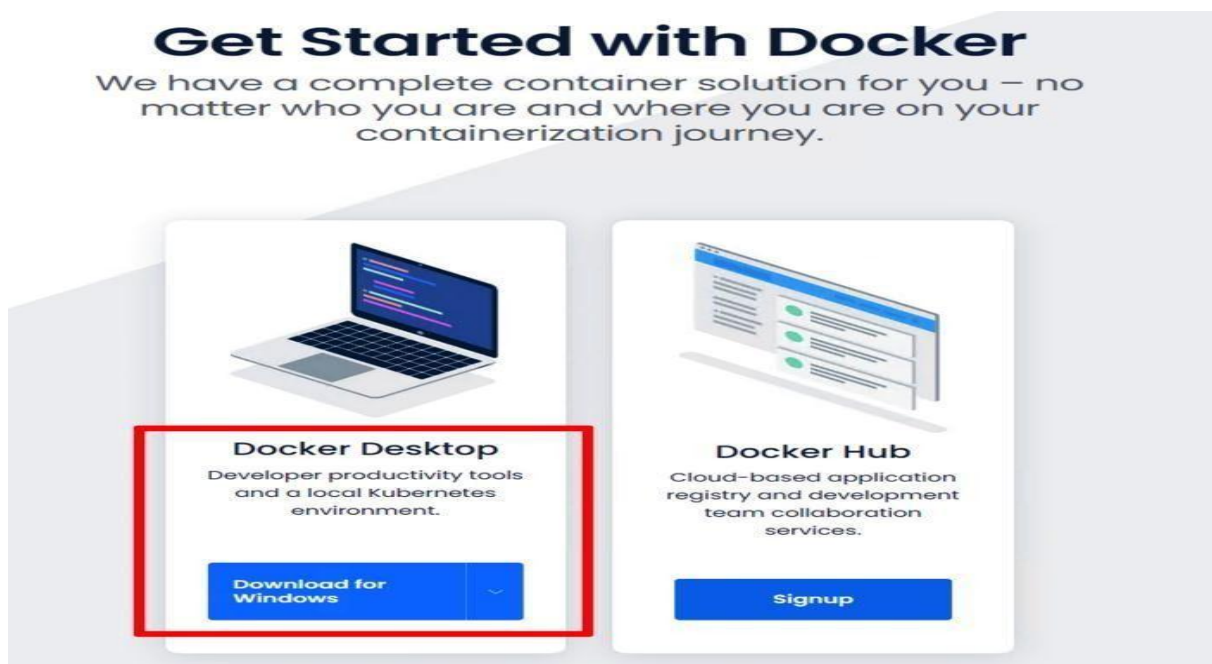
DEVELOPMENT ASSMENT - 7

CASE STUDY ON DOCKER

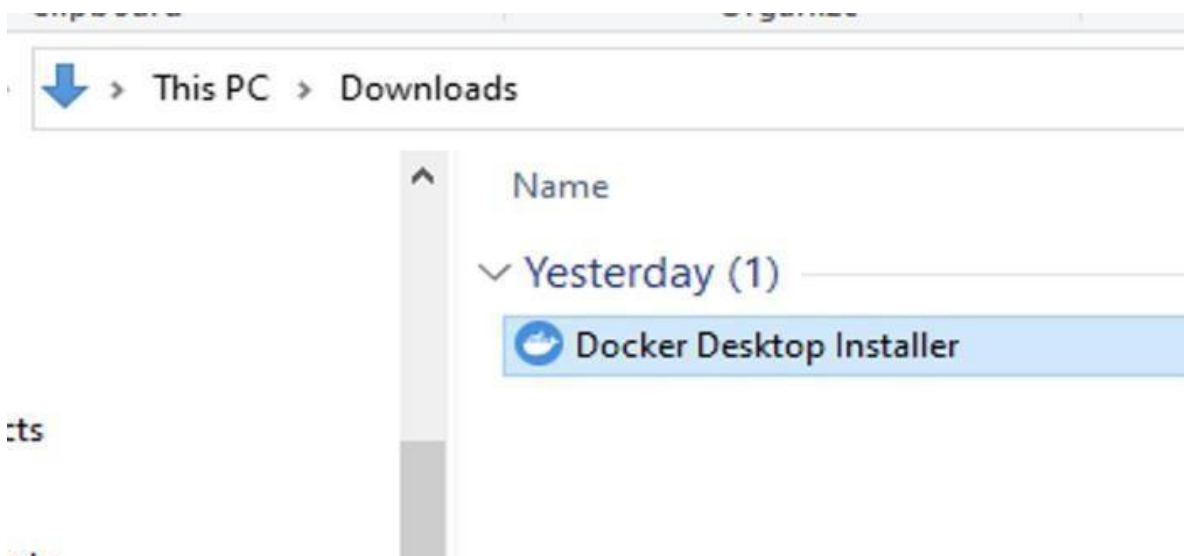
Aim of the Case Study: - Practice and execute Docker install docker in your system and create an image and print hello world.

Steps to install Docker: -

1. Download Docker



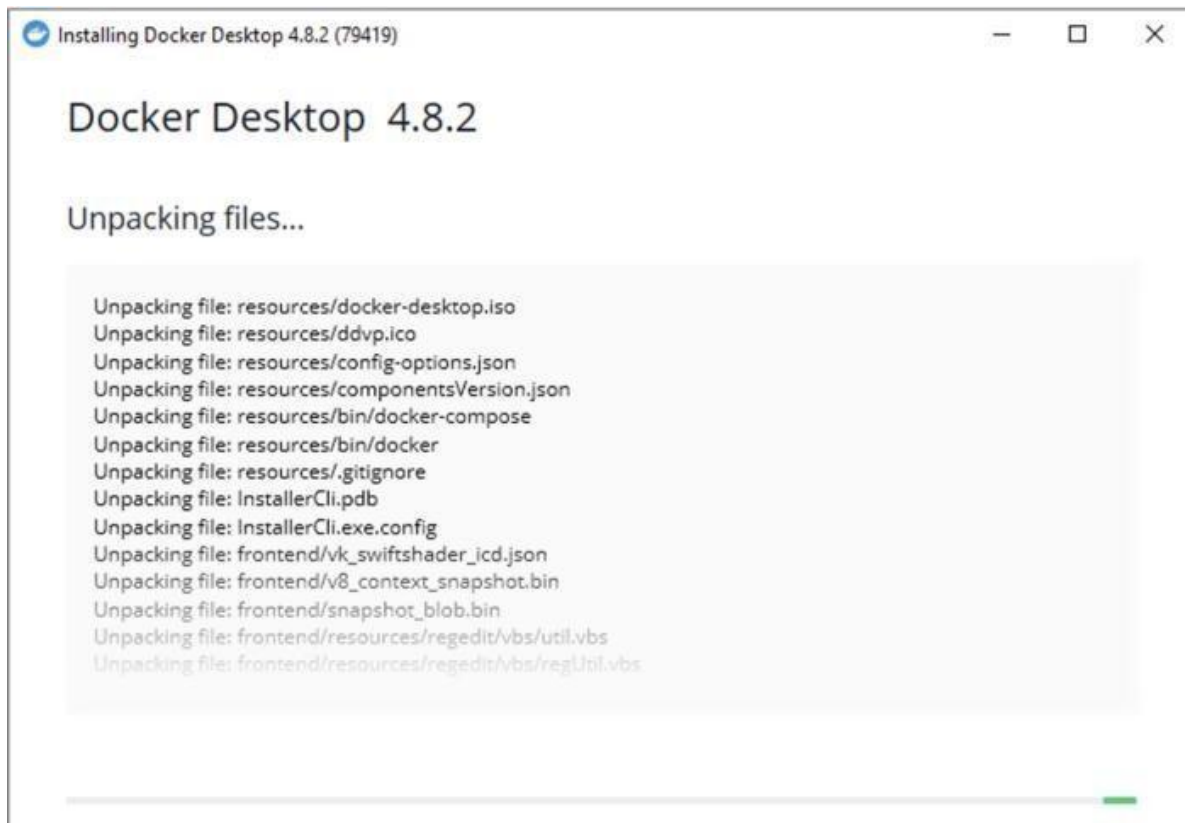
2. Open Download Docker file



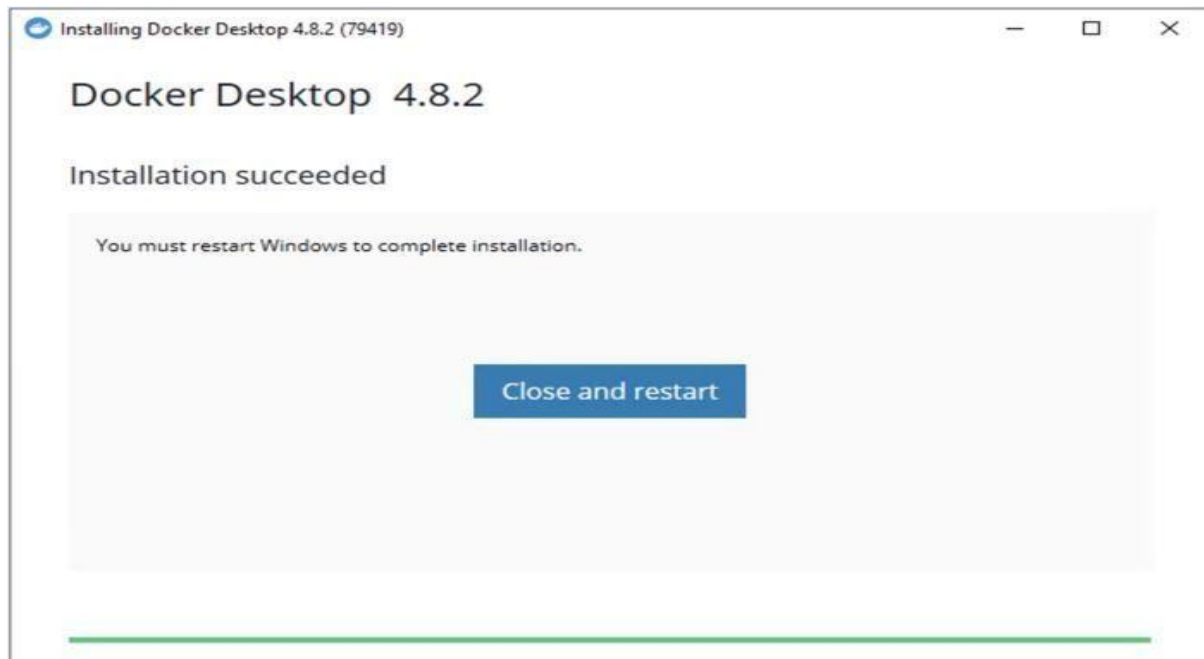
3. Run the file



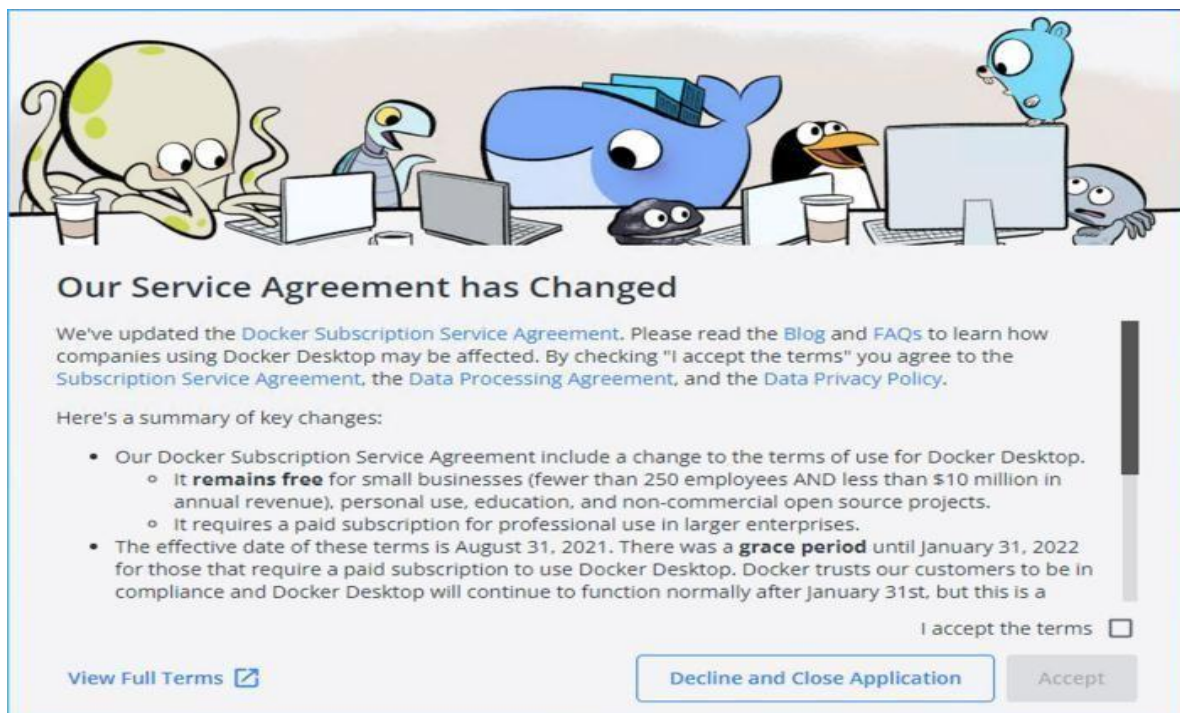
4. Click Ok



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](#)



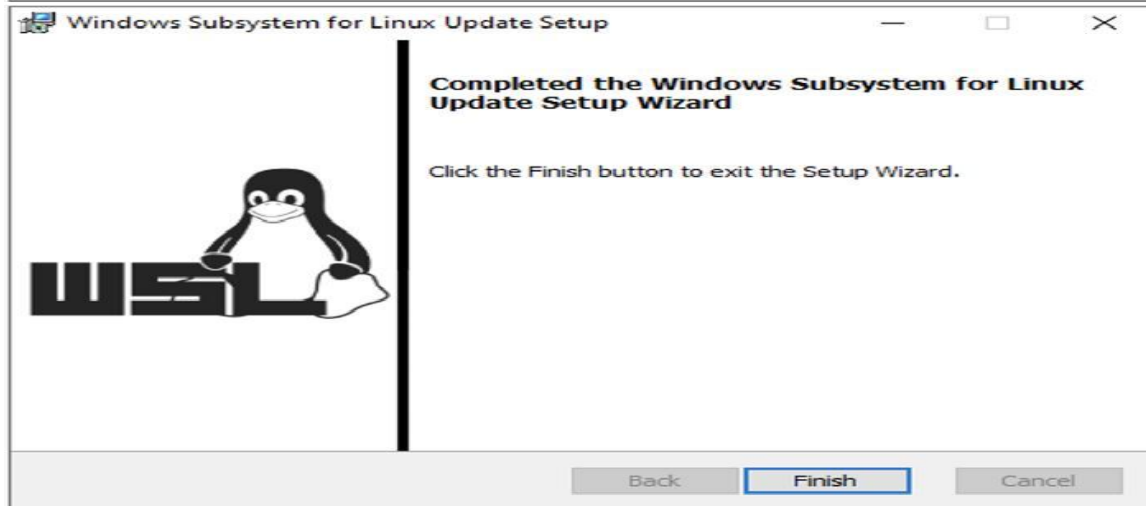
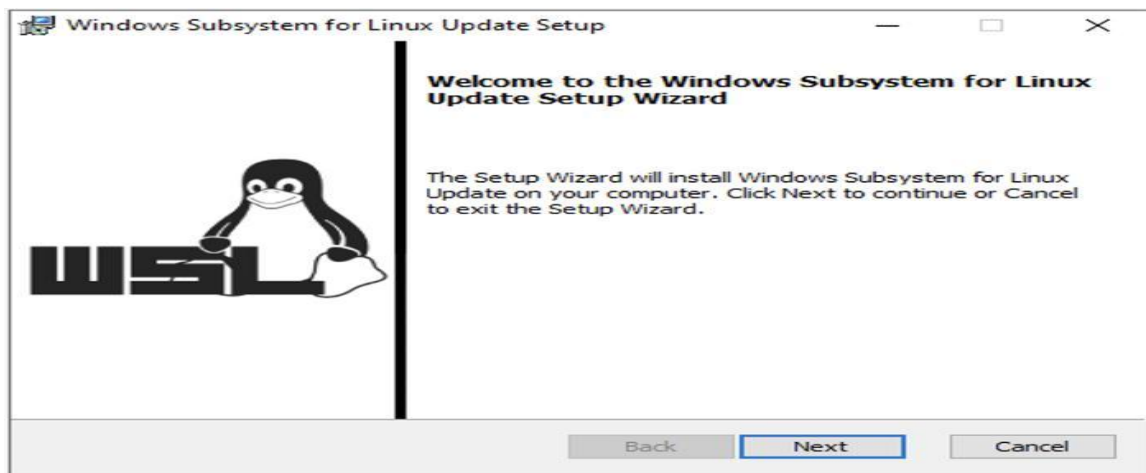
ⓘ Note

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).

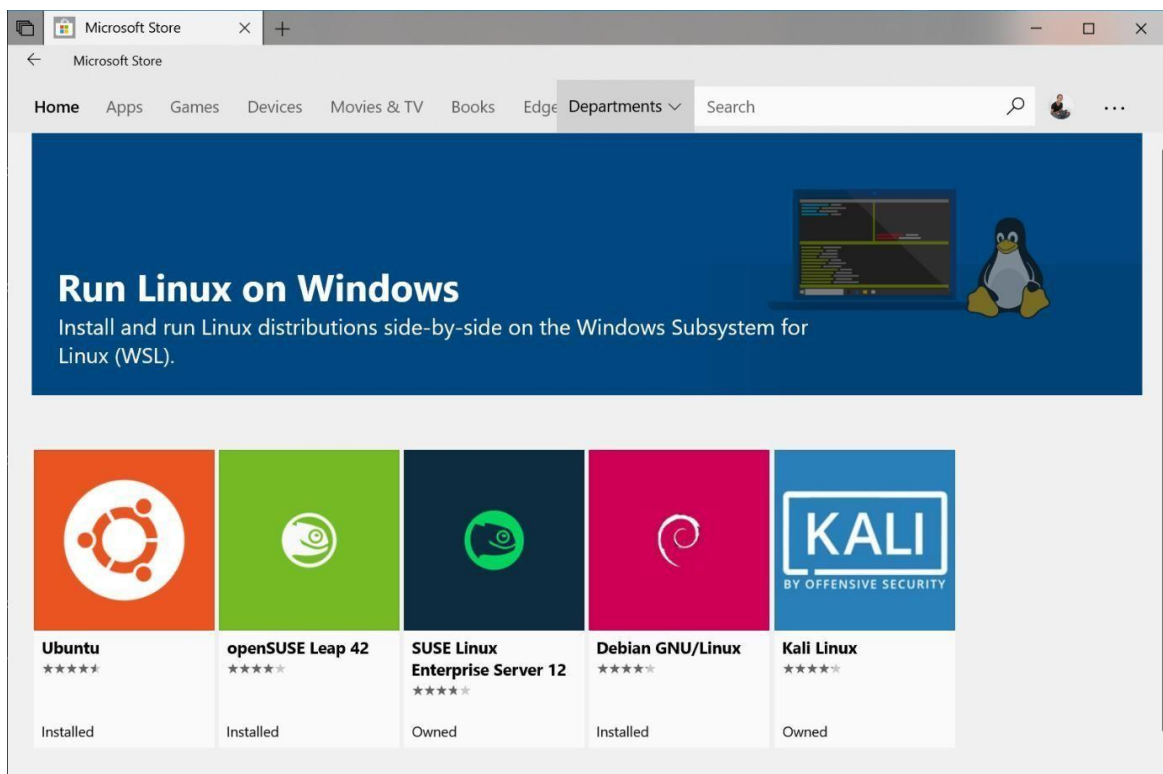
> Downloads



8. After WSL installation Restart ur Computer



9. Go to Microsoft store and install ubuntu



Store

Home

Apps

Games

Music

Movies & TV

Books

Microsoft

Search

Search

ubuntu

Canonical Group Limited

★★★★☆ 22

Free

Get

Share

Everyone

Screenshots

Description

Ubuntu on Windows allows one to use Ubuntu Terminal and run Ubuntu command line utilities including bash, ssh, git, apt and many more.

To use this feature, one first needs to use "Turn Windows features on or off" and select "Windows Subsystem for Linux", click OK, reboot, and use this app.

The above step can also be performed using Administrator PowerShell prompt: Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux

...

More

Available on

PC

What's new in this version

20170619.1 build of Ubuntu 16.04 LTS

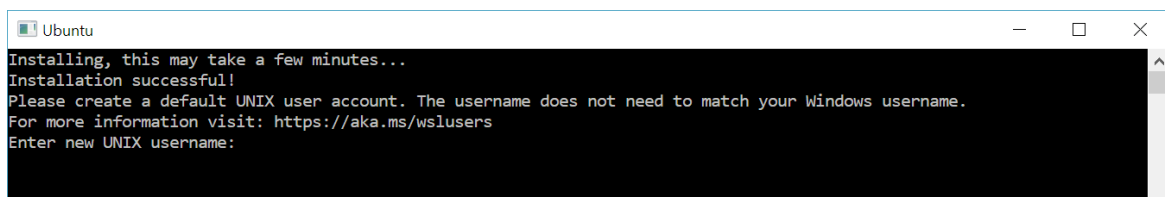
Features

Ubuntu

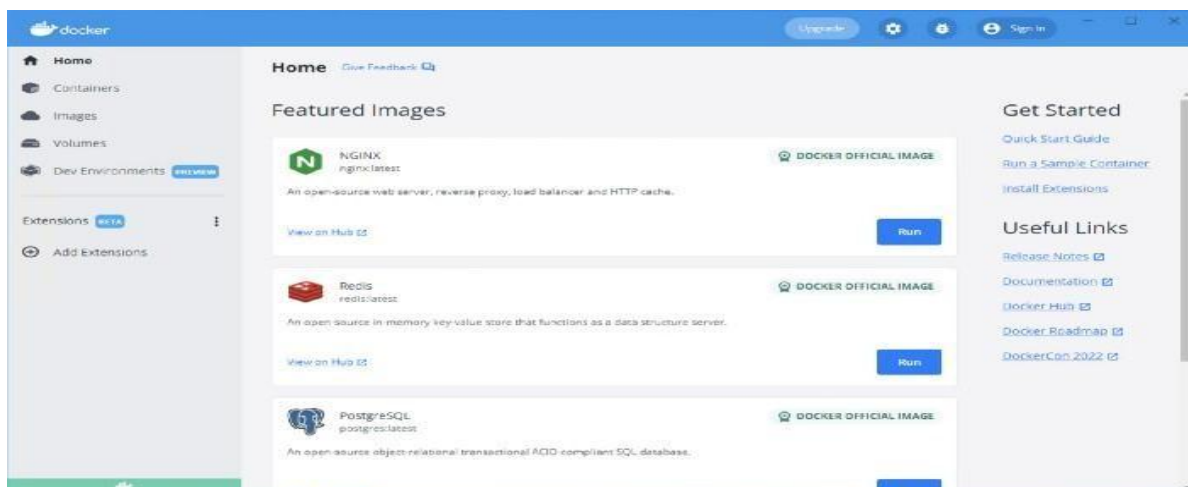
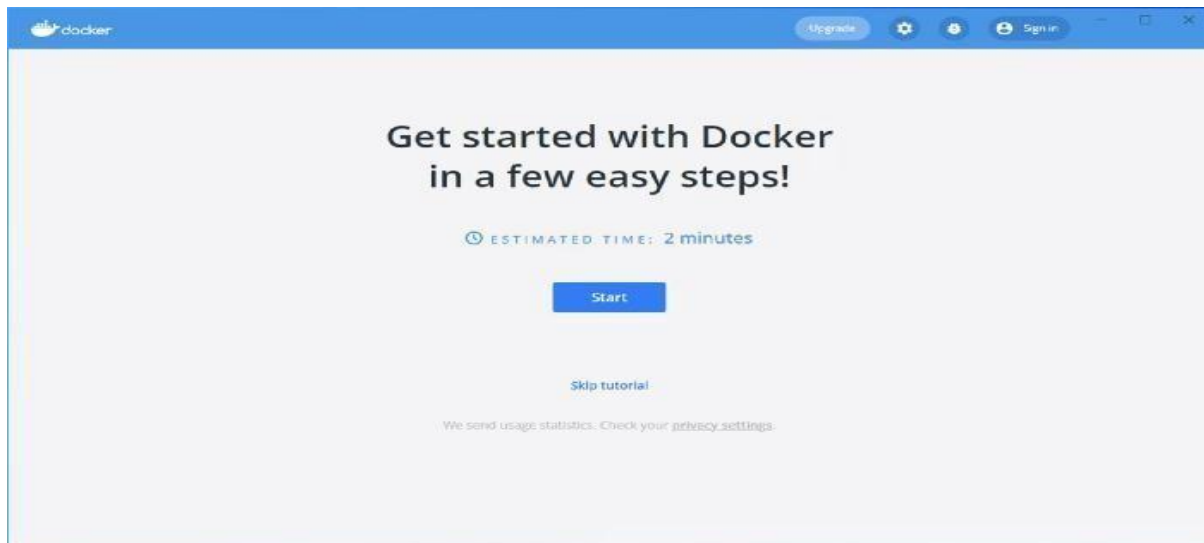
bash

ssh

10. After installation open it and enter New user name and password and close and restart ur computer once



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: -

```
~/Desktop/hello-docker
> ✓ docker build -t hello-docker .
[+] Building 1.2s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 99B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/node:alpine
=> [internal] load build context
=> => transferring context: 158B
=> CACHED [1/3] FROM docker.io/library/node:alpine@sha256:c01b57
=> [2/3] COPY . /app
=> [3/3] WORKDIR /app
=> exporting to image
=> => exporting layers
=> => writing image sha256:8872d3105639b4baa774e63f64a64c6ab406c
=> => naming to docker.io/library/hello-docker
```

```
~/Desktop/hello-docker
> ✓ docker image ls
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
hello-docker        latest          8872d3105639   2 minutes ago  112MB

~/Desktop/hello-docker
> ✓
```

```
~/Desktop/hello-docker
> ✓ docker run hello-docker
Hello Docker!
```

