Module-3: Docker – I Assignment - 1

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Course Offered: -Advanced Cloud Computing and Devops
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Date Of Submission: -27/01/2025

You have been asked to:

- Pull ubuntu container
- Run this container, and map port 80 on the local
- Install apache2 on this container
- Check if you are able to access the apache page on your browser

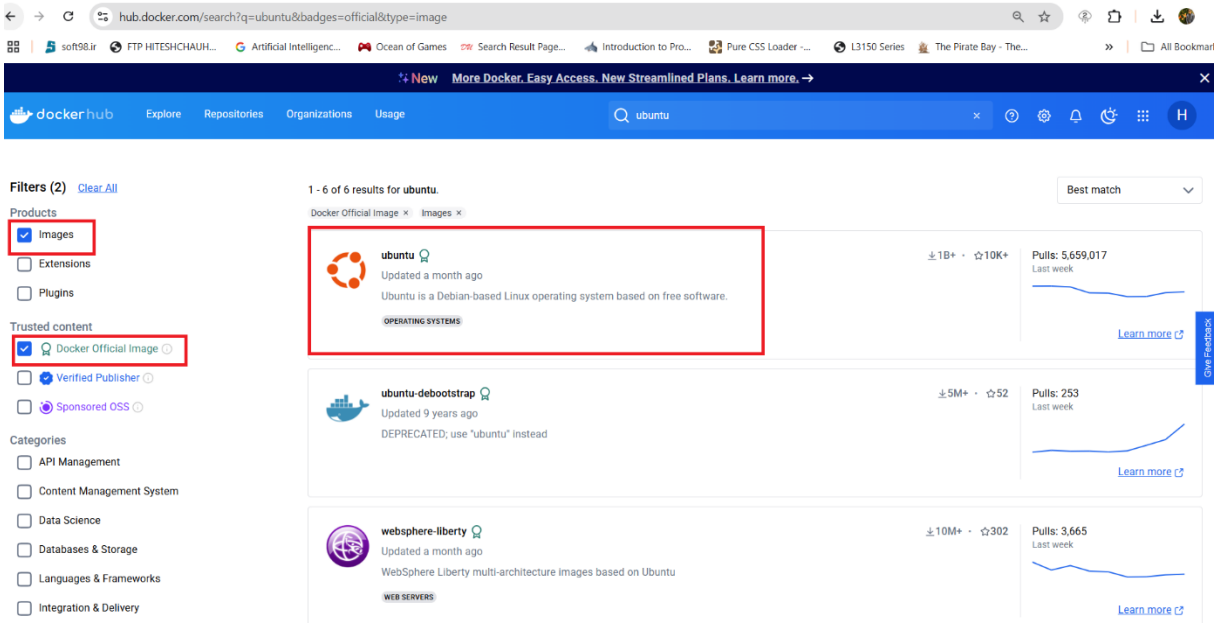
Pull ubuntu container

Step 01 Pull ubuntu Container

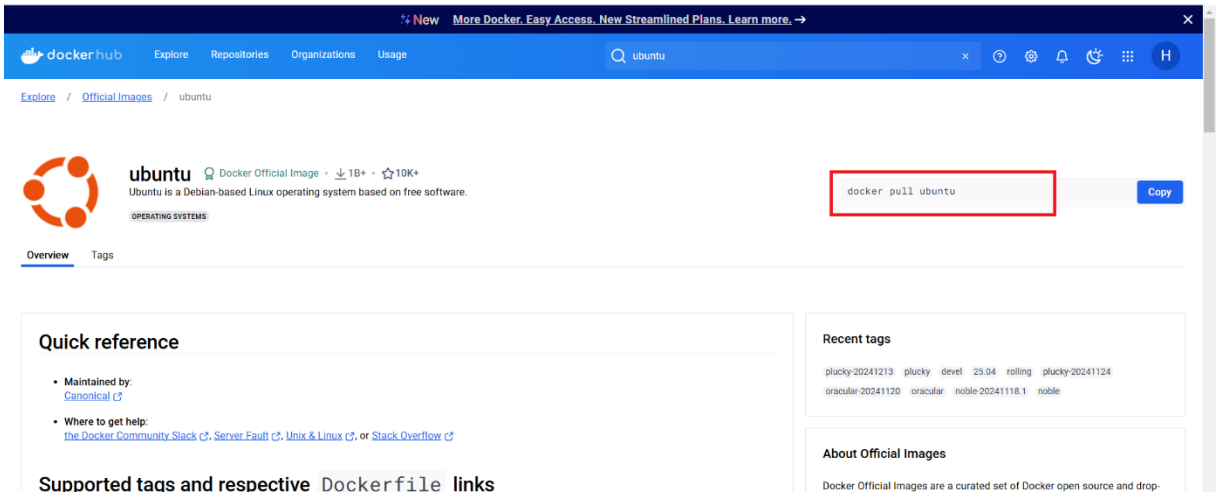
First Go To https://hub.docker.com

And search ubuntu

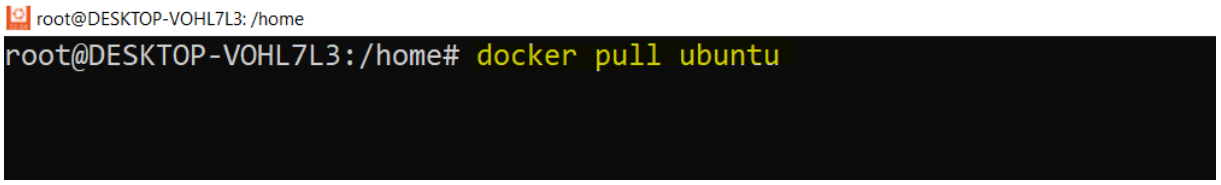
Click Images And Trusted Content Check the Docker Official Image then after search ubuntu.you see the the ubuntu docker official image



After Click the ubuntu image click the image and copy the docker pull ubuntu command

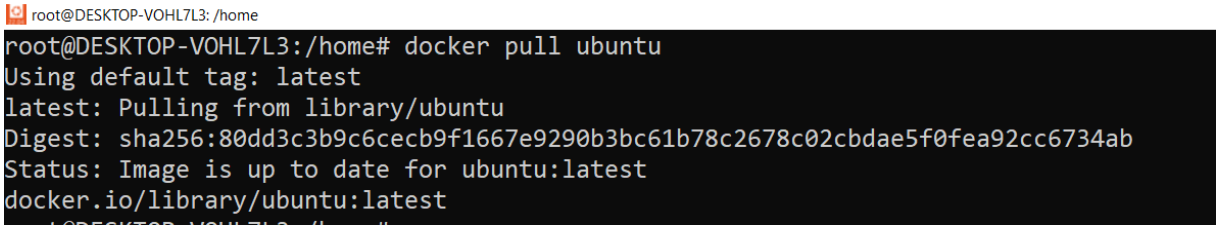


Then This command paste in to linux where you installed the docker



After paste the command you will see the image status.

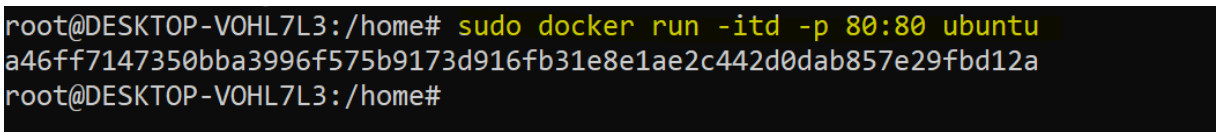
NOTE:If Ubuntu Image is already there you will see this below screenshot,if not there so docker will pull the image.



After Pull the ubuntu image.now run this below command

2. Run this container and map port 80 on the local

sudo docker run -itd -p 80:80 ubuntu

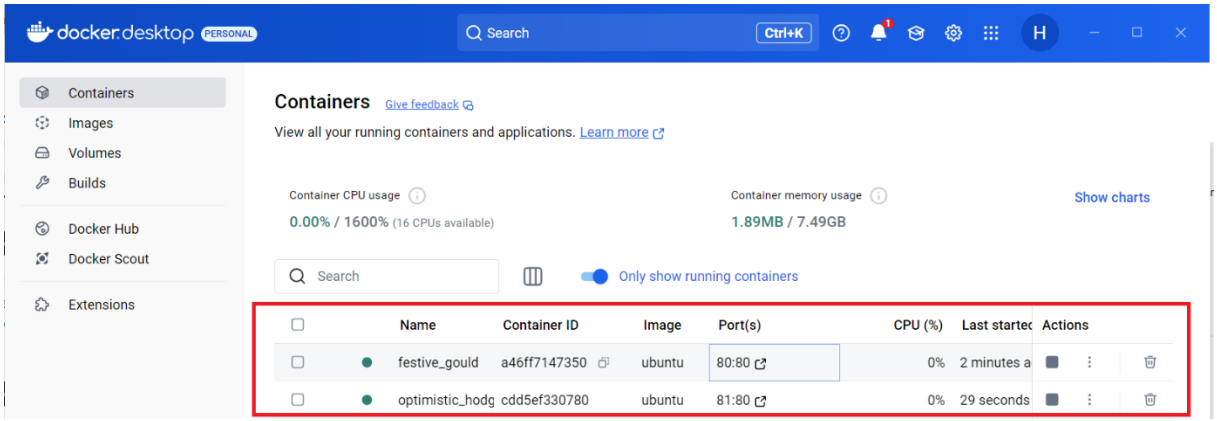


After Run this command You will see the container id.you can see the container of this command

docker ps -a

```
root@DESKTOP-VOHL7L3:/home# docker ps -a
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS                  NAMES
a46ff7147350   ubuntu    "/bin/bash"   36 seconds ago   Up 36 seconds   0.0.0.0:80->80/tcp     festive_gould
186673d5e717   ubuntu    "/bin/bash"   25 minutes ago   Created                                xenodochial_noether
root@DESKTOP-VOHL7L3:/home#
```

You will see also on docker desktop and image will see here also.



Then you need to take the container access

In This case either you will go with container id or container name.

Command is

sudo docker exec -it cdd5ef330780 bash

```
CONTAINER ID   IMAGE     COMMAND       CREATED              STATUS              PORTS                  NAMES
cdd5ef330780   ubuntu    "/bin/bash"   About a minute ago   Up About a minute   0.0.0.0:81->80/tcp     optimistic_hodgkin
a46ff7147350   ubuntu    "/bin/bash"   3 minutes ago        Up 3 minutes        0.0.0.0:80->80/tcp     festive_gould
root@DESKTOP-VOHL7L3:/home# sudo docker exec -it cdd5ef330780 bash
root@cdd5ef330780:/#
```

After run this command you will go inside the container

Then run this command

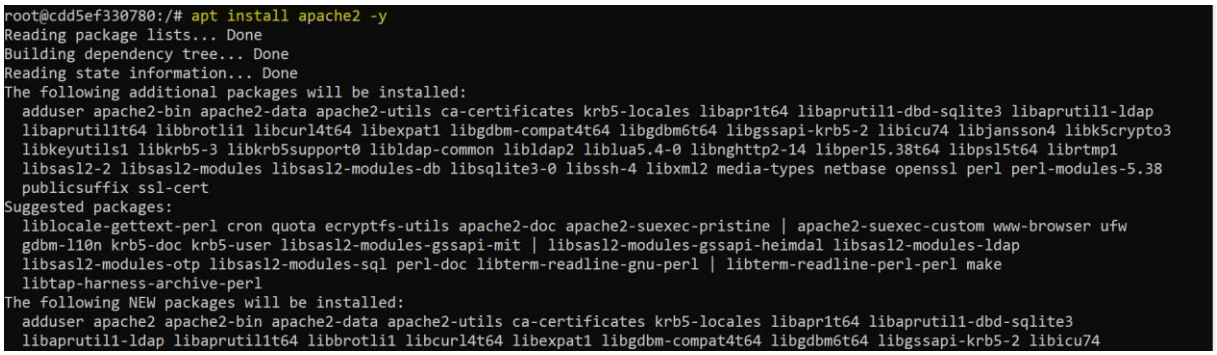
apt update

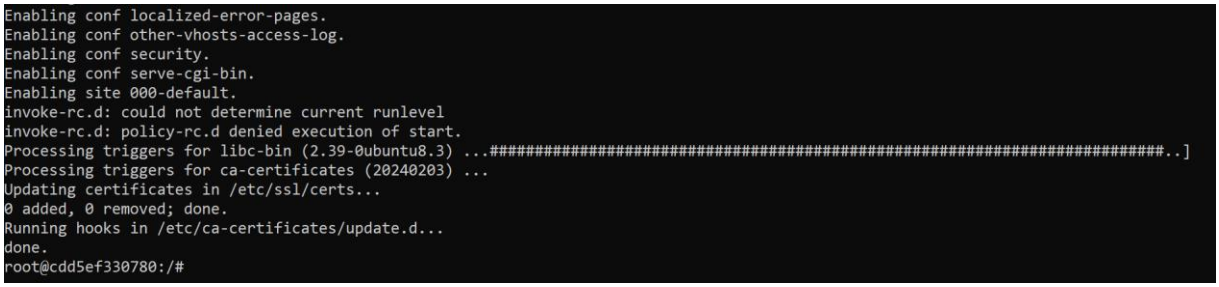
```
root@DESKTOP-VOHL7L3:/home# sudo docker exec -it cdd5ef330780 bash
root@cdd5ef330780:/# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [1035 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [724 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [15.5 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [740 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
31% [10 Packages 381 kB/19.3 MB 2%]
```

After use this command

This command use for install the apache in ubuntu container

apt install apache2 -y

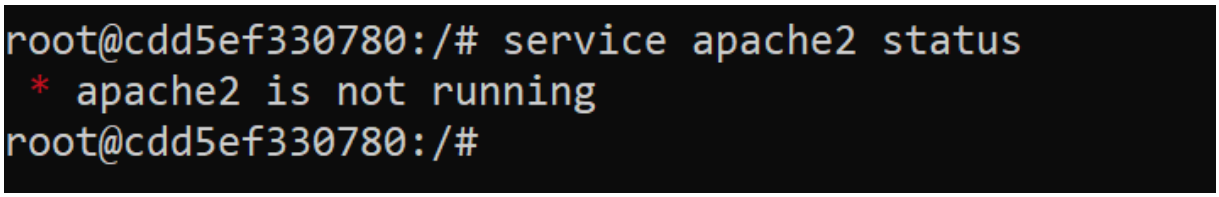


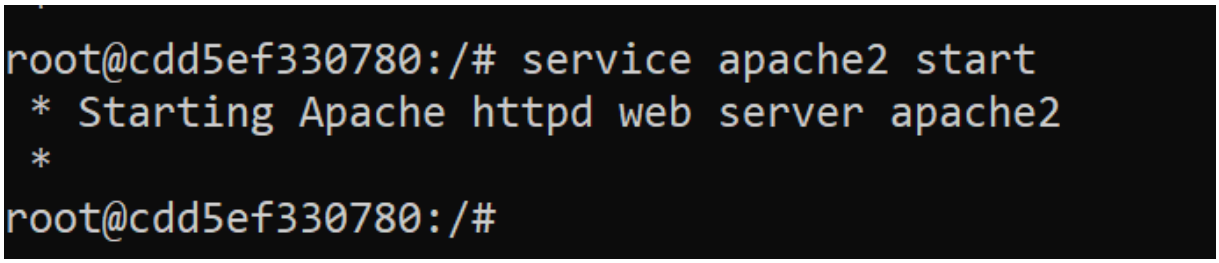


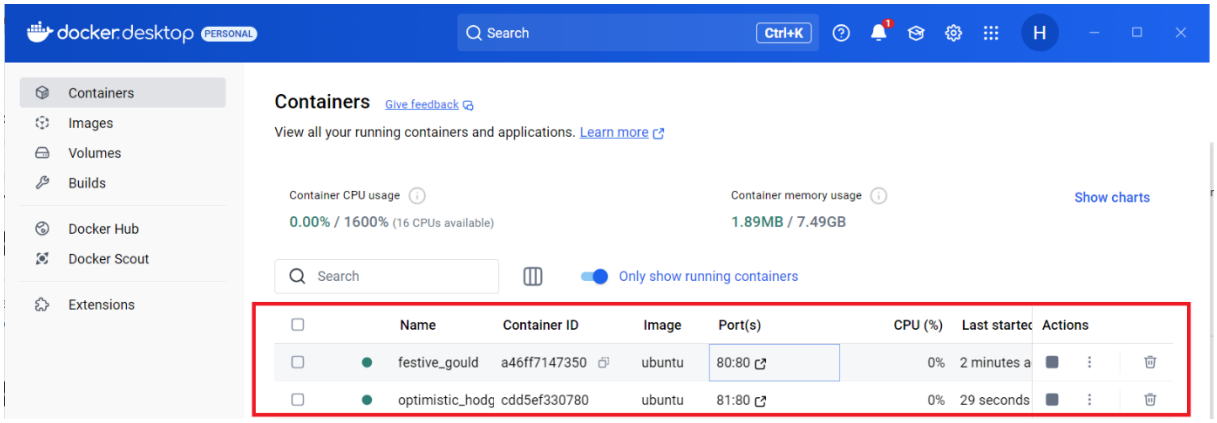
After install the apache2 we need to check the service of apache

So command is

service apache2 status







Open the Web brower port no 81:80 so you will the below apache by default page.