### **Practical CA-1(CSV209)**

Name: Aman Kumar Kanu

Reg:12208695

Roll.no:06

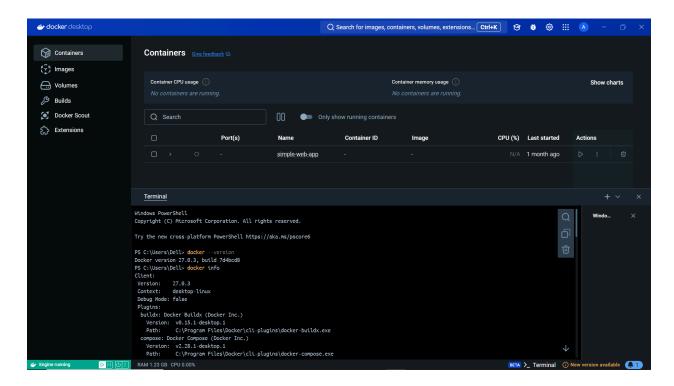
## 1.Docker Installation

\*Install and Configure Docker

-->the command is use to configure docker installation is docker

#### --version

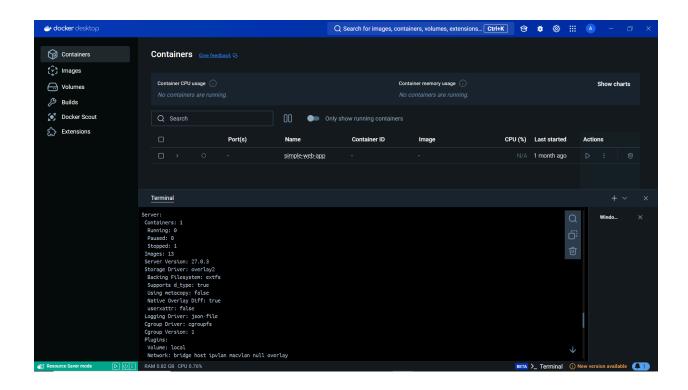
#### docker info



# \*Post-Installation Steps

—>For the post installation step command are used is:

sudo apt update
sudo apt install docker.io -y
sudo systemctl start docker
sudo systemctl enable docker



# 2. Pulling and Running Docker Images

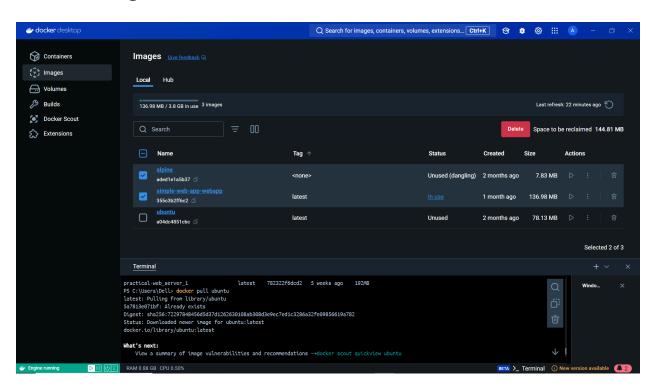
\*Pull a Base Image

→ For pulling the base image we have to we command

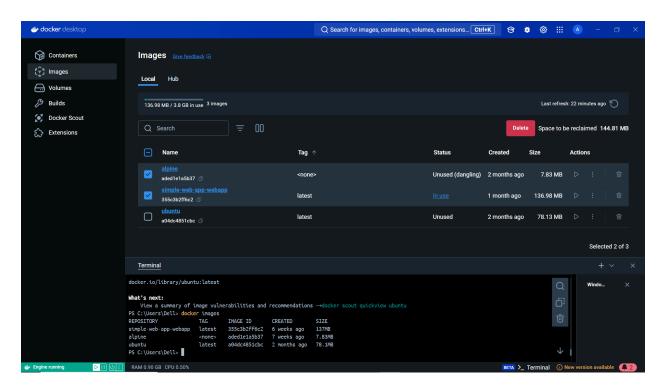
#### docker pull ubuntu

--> For verifying the image we used the command

#### docker images



### Docker images:



\*Run Container and Perform a Task

→for running the container we used the command

# docker run -it ubuntu

\*Inside the container

echo "Hello from Docker!"

apt update

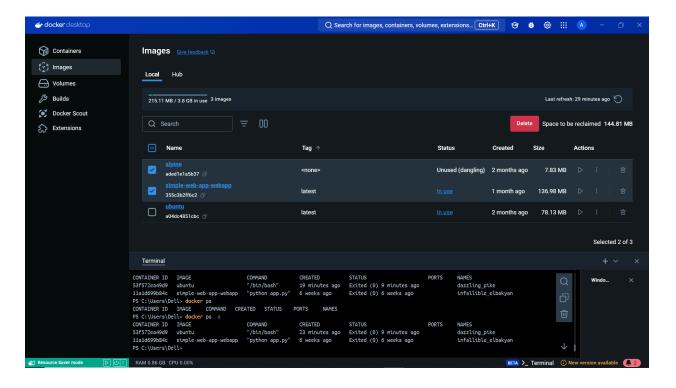
apt install nano

exit

## 3. Basic Container Management

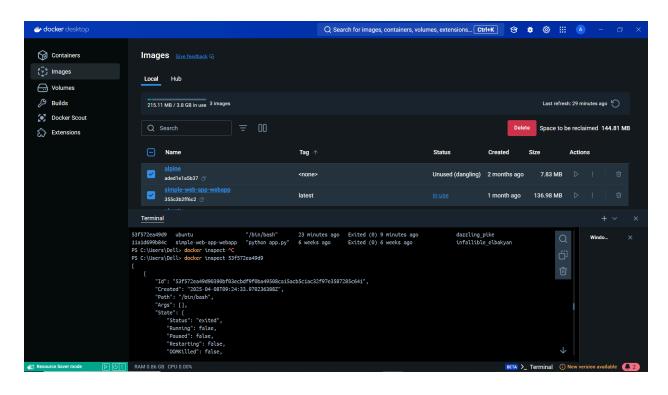
—-> docker inspect to gather container details we used the command

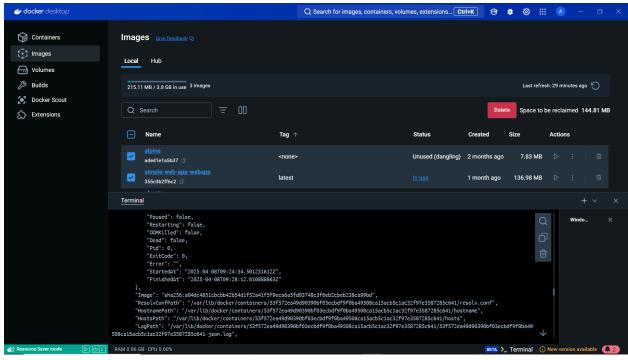
### docker ps, docker ps -a,



Show how to list running containers and retrieve specific info (e.g., container IP).

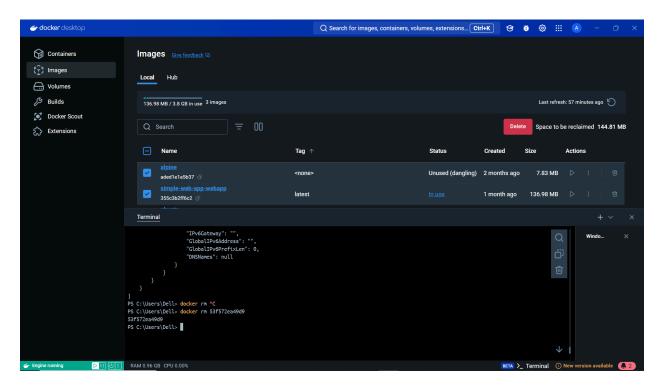
— for this using the command that is docker inspect <container\_id>





# \*Cleaning Up

Remove unused containers we used the command (docker rm) and for images (docker rmi) to free space.



## **Docker Commands Explained**

#### Command

--version

#### **Explanation**

docker Shows the installed Docker version.

docker info Displays system-wide Docker details (containers, images, storage, etc.).

docker pull Downloads the **Ubuntu** image from Docker ubuntu Hub to your system.

docker Lists all Docker images available on your local machine.

docker run Runs a container in **interactive mode** with a terminal from the Ubuntu image.

docke Shows **running** r ps containers.

docker Shows **all** containers ps -a (running + stopped).

docker inspect Shows detailed information about a container\_id> container (like IP, config, etc.).