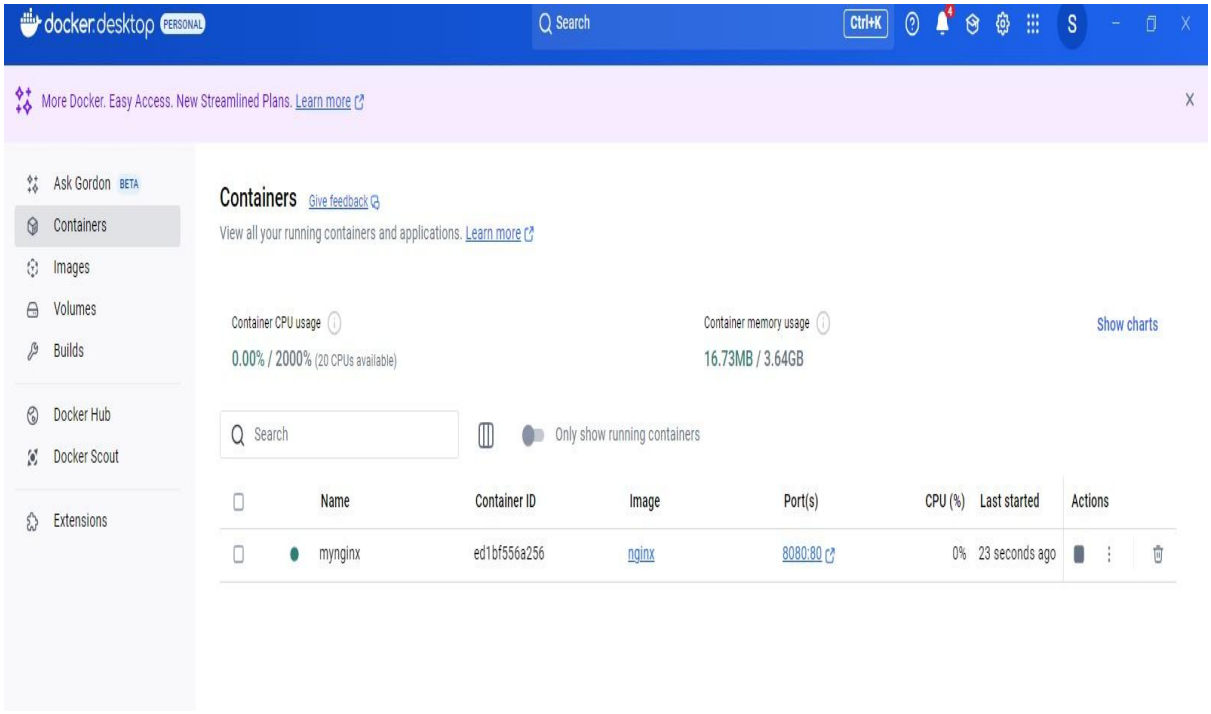
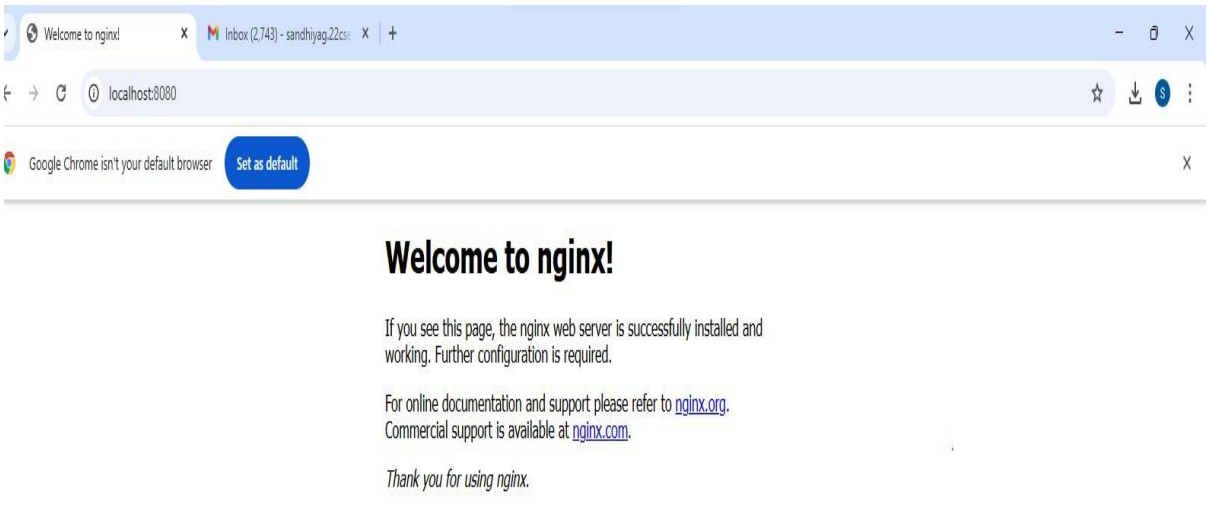

docker desktop PERSONAL
Search
Ctrl+K
More Docker. Easy Access. New Streamlined Plans. Learn more
Ask Gordon BETA
Containers
Images
Volumes
Builds
Docker Hub
Docker Scout
Extensions
Containers
Give feedback
View all your running containers and applications. Learn more
Container CPU usage
0.00% / 2000% (20 CPUs available)
Container memory usage
16.73MB / 3.64GB
Show charts
Search
Only show running containers
Name
Container ID
Image
Port(s)
CPU (%)
Last started
Actions
mynginx
ed1bf556a256
nginx
8080:80
0%
23 seconds ago


Welcome to nginx!
Inbox (2,743) - sandhiyag.22cse
localhost:8080
Google Chrome isn't your default browser
Set as default
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.

DOCKER

Docker is a platform that provides virtual containers on which an application can be deployed independent of the underlying OS of the server.

Further the container can be created from a replica called docker image which contains all the dependencies and can run on any OS that has docker engine, with similar results.

VIRTUALIZATION:

Virtualization is the process of sharing hardware resources across several virtually isolated and mutually independent systems.

It is achieved by using a hypervisor which acts as a bridge between the Operating System of each of the virtual machines and the underlying hardware.

Applications in virtual environments run on a host operating system on top of the hypervisor.

BASIC DOCKER COMMANDS

Display docker images available in our machine

$ docker images

Download docker image.

$ docker pull <image-name / image-id>

Run docker image.

$ docker run <image-name / image-id>

Delete docker image.

$ docker rmi <image-name / image-id>

Display all running docker containers.

$ docker ps

Display all running and stopped containers.

$ docker ps -a

Delete docker container.

$ docker rm <container-id>

Delete docker image forcefully.

$ docker rmi -f <image-id>

Stop Docker container.

$ docker stop <container-id>

#DOCKER COMMANDS FOR UBUNTU

$ sudo apt update -y

$ sudo apt install docker -y

$ sudo service docker start (or) sudo systemctl start docker

$ sudo service docker enable (or) sudo systemctl enable docker

DOCKER COMPOSE

Docker Compose is a tool that allows you to define and manage multi-container Docker applications. It simplifies the process of running multiple containers, their configurations, and their interdependencies. Compose uses a YAML file to define the services, networks, and volumes required for your application.

Docker Compose is a tool which is used to manage multi container-based applications.

Using Docker Compose we can easily setup & deploy multi container-based applications.

We will give containers information to Docker Compose using YML file (docker-compose.yml)

Docker Compose YML should have all the information related to containers creation.