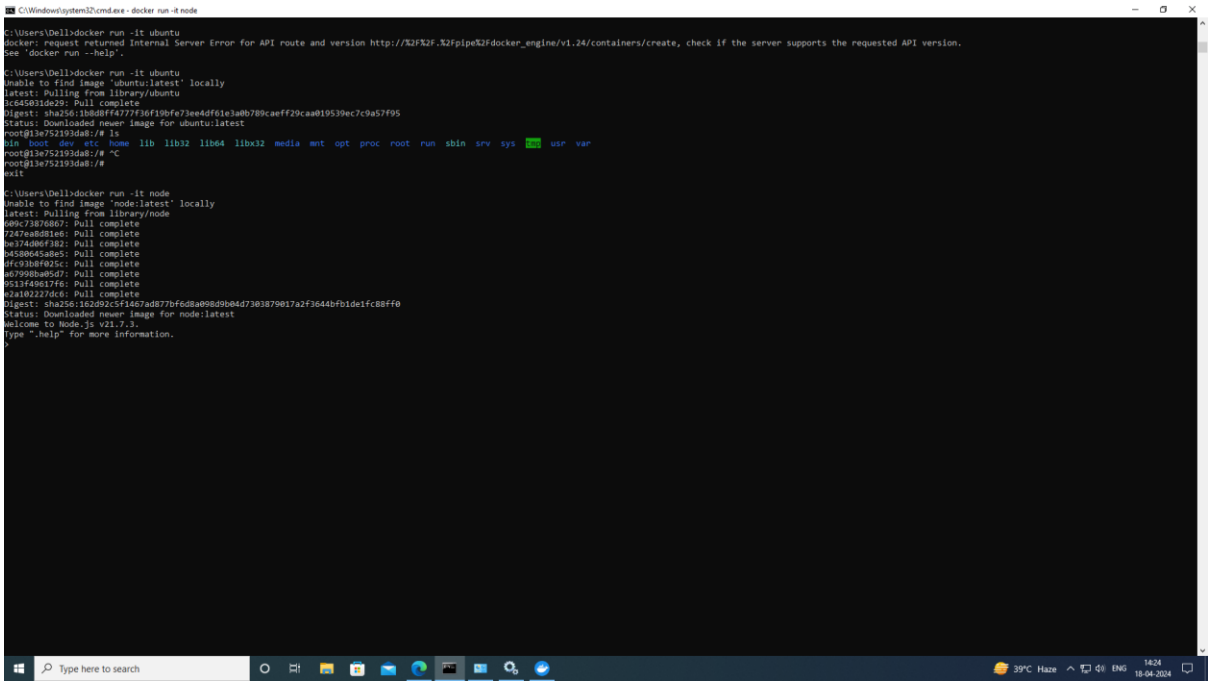
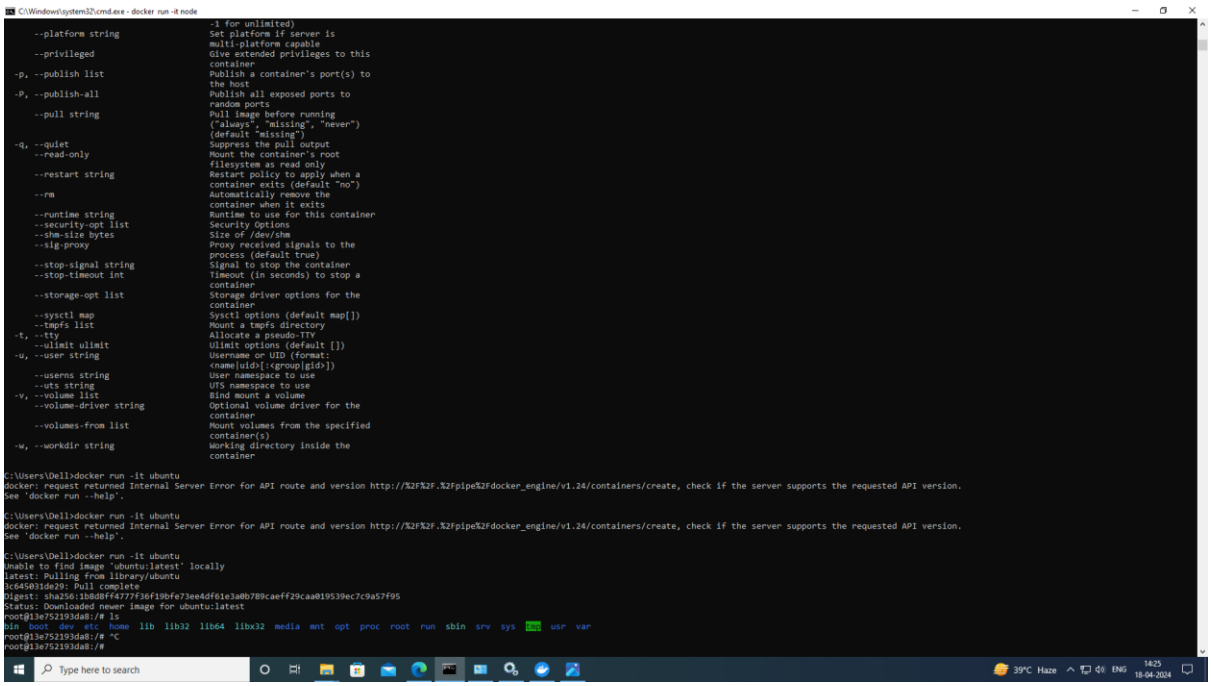
Name: Piyush Yogesh Patil (TE-IT)

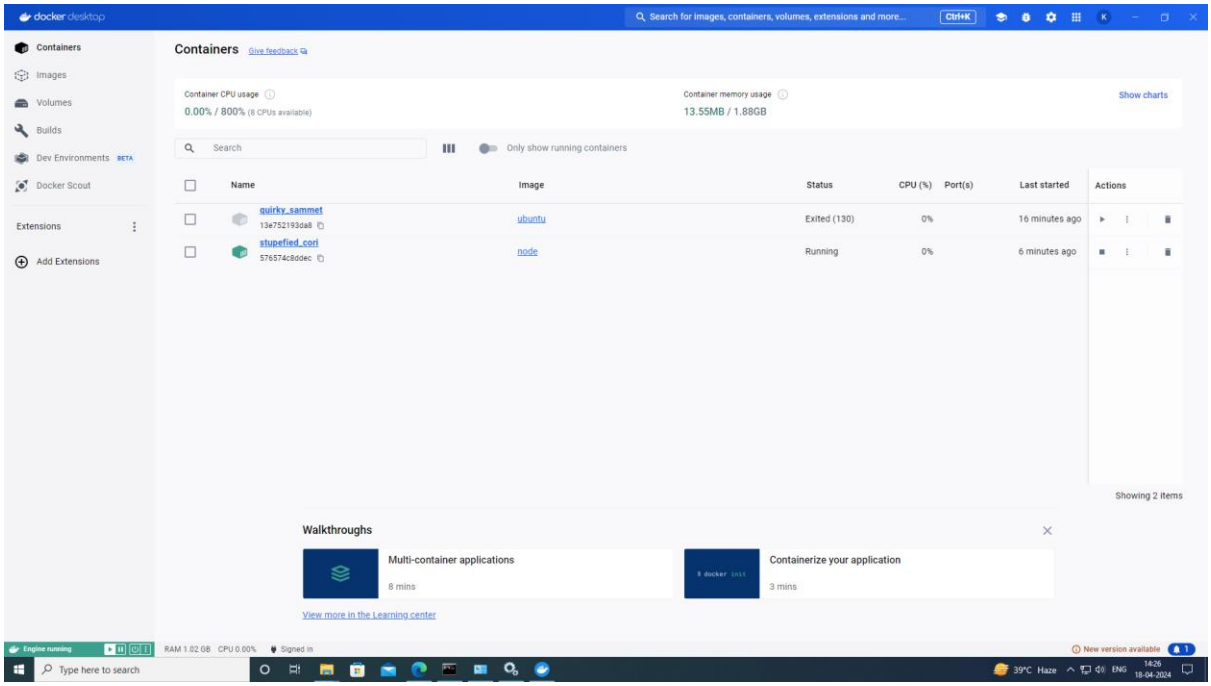
Roll no – 47

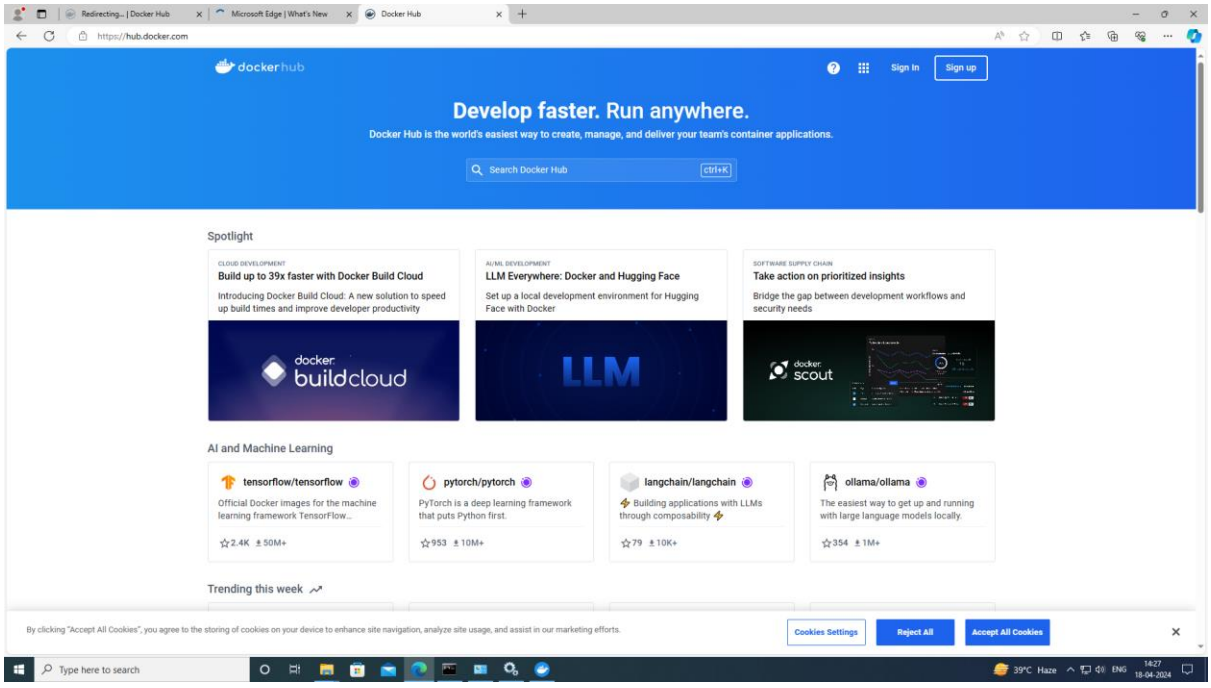
WAD Assignment : Docker

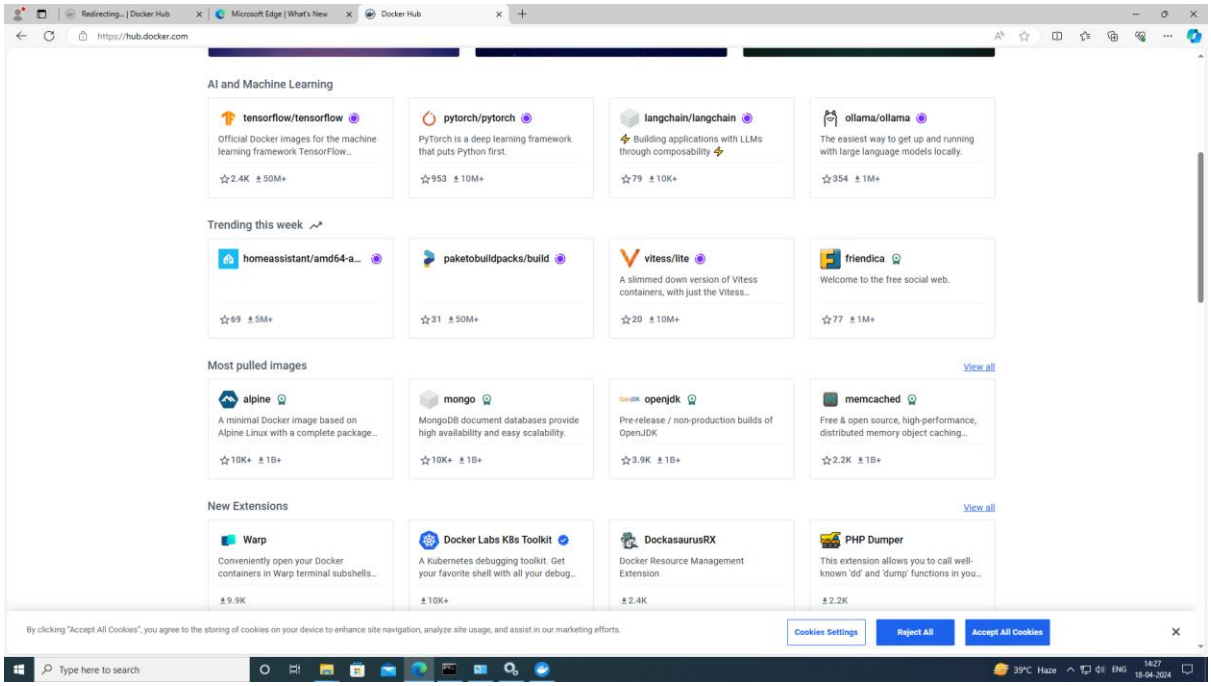
Screenshots:






docker desktop
Search for images, containers, volumes, extensions and more...
Ctrl+K
Containers
Images
Volumes
Builds
Dev Environments BETA
Docker Scout
Extensions
Add Extensions
Containers
Give feedback
Container CPU usage
0.00% / 800% (8 CPUs available)
Container memory usage
13.55MB / 1.88GB
Show charts
Search
Only show running containers
Name
Image
Status
CPU (%)
Port(s)
Last started
Actions
quirky_sammet
13e752193da8
ubuntu
Exited (130)
0%
16 minutes ago
stupefied_cori
576574c8ddec
node
Running
0%
6 minutes ago
Showing 2 items
Walkthroughs
Multi-container applications
8 mins
Containerize your application
3 mins
View more in the Learning center
Engine running
RAM 1.02 GB CPU 0.00%
Signed in
New version available
Type here to search
39°C Haze
ENG
14:26
18-04-2024


Redirecting... | Docker Hub
Microsoft Edge | What's New
Docker Hub
https://hub.docker.com
dockerhub
Sign In
Sign up
Develop faster. Run anywhere.
Docker Hub is the world's easiest way to create, manage, and deliver your team's container applications.
Search Docker Hub
ctrl+K
Spotlight
CLOUD DEVELOPMENT
Build up to 39x faster with Docker Build Cloud
Introducing Docker Build Cloud: A new solution to speed up build times and improve developer productivity
AI/ML DEVELOPMENT
LLM Everywhere: Docker and Hugging Face
Set up a local development environment for Hugging Face with Docker
SOFTWARE SUPPLY CHAIN
Take action on prioritized insights
Bridge the gap between development workflows and security needs
docker build cloud
LLM
docker scout
AI and Machine Learning
tensorflow/tensorflow
Official Docker images for the machine learning framework TensorFlow...
☆2.4K ±50M+
pytorch/pytorch
PyTorch is a deep learning framework that puts Python first.
☆953 ±10M+
langchain/langchain
Building applications with LLMs through composability
☆79 ±10K+
ollama/ollama
The easiest way to get up and running with large language models locally.
☆354 ±1M+
Trending this week
By clicking "Accept All Cookies", you agree to the storing of cookies on your device to enhance site navigation, analyze site usage, and assist in our marketing efforts.
Cookies Settings
Reject All
Accept All Cookies
Type here to search
39°C Haze
ENG
14:27
18-04-2024



Theory: Docker is a platform designed to make it easier to create, deploy, and run applications by using containers. Containers allow a developer to package up an application with all of its parts (such as libraries and other dependencies), ensuring that it will run consistently on any environment. With Docker, developers can build, ship, and run applications anywhere, whether it's on a developer's laptop, on a physical server, or in the cloud. Docker uses containerization technology, which packages an application and its dependencies together into a single unit called a container. These containers are lightweight, portable, and isolated from each other, allowing multiple containers to run on the same machine without conflicts. Some key components of Docker include: Docker Engine: The core of Docker, responsible for creating and managing containers. Dockerfile: A text file that contains instructions for building a Docker image. Docker Image: A lightweight, standalone, executable package that includes everything needed to run a piece of software, including the code, runtime, libraries, and dependencies.Docker Hub: A cloud-based repository where Docker images can be stored, shared, and distributed. Docker Compose: A tool for defining and running multi-container Docker applications using a YAML file. Overall, Docker simplifies the process of building, deploying, and managing applications, making it a popular choice among developers and DevOps teams.