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Roll no – 47

WAD Assignment : Docker

Screenshots:

```
C:\Users\Devl\docker run -it ubuntu
docker: request returned Internal Server Error for API route and version http://32f32f.32fipe32fdocker_engine/v1.24/containers/create, check if the server supports the requested API version.
See 'docker run --help'.

C:\Users\Devl\docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
3c64583de29: Pull complete
Digest: sha256:1b6d8ff477f93f19bfc7eeddfe1a3ab789caeff29caab19539ec7c9a57f95
Status: Downloaded newer image for ubuntu:latest
root@13e752193da8:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run/sbin srv sys usr var
root@13e752193da8:/# ^C
root@13e752193da8:/# exit

C:\Users\Devl\docker run -it node
Unable to find image 'node:latest' locally
latest: Pulling from library/node
696c72878b7: Pull complete
7247ea8d81e6: Pull complete
ba374d0ef382: Pull complete
b4598645d8e5: Pull complete
dfc93b8f025c: Pull complete
a87998bae5d7: Pull complete
c5134a6d17f6: Pull complete
e3a102227dc6: Pull complete
Digest: sha256:162d92c5f1407ad77bf6da086d9b04d7303879017a2f3644bf1de1fc88ff0
Status: Downloaded newer image for node:latest
welcome to Node.js v12.7.3.
Type ".help" for more information.
```

```
--platform string      Set platform if server is multi-platform capable
--privileged           Give extended privileges to this container
-p, --publish list     Publish a container's port(s) to the host
-P, --publish-all     Publish all exposed ports to random ports
--pull string          Pull image before running ("always", "missing", "never") (default "missing")
-q, --quiet            Suppress the pull output
--read-only            Mount the container's root filesystem as read only
--restart string       Restart policy to apply when a container exits (default "no")
--rm                  Automatically remove the container when it exits
--runtime string       Runtime to use for this container
--security-opt list    Security Options
--shm-size bytes       Size of /dev/shm
--sig-proxy            Proxy received signals to the process (default true)
--stop-signal string   Signal to stop the container
--stop-timeout int     Timeout (in seconds) to stop a container
--storage-opt list     Storage driver options for the container
--sysctl map           Sysctl options (default map[])
--tmpfs list           Mount a tmpfs directory
-t, --tty              Allocate a pseudo-TTY
--ulimit ulimit        Ulimit options (default [])
-u, --user string       Username or UID (format: <name|uid>[:<group|gid>])
--users string         User namespace to use
--uts string           UTS namespace to use
-v, --volume list      Bind mount a volume
--volume-driver string Optional volume driver for the container
--volumes-from list    Mount volumes from the specified container(s)
-w, --workdir string   Working directory inside the container

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```

Containers

Images

Volumes

Builds

Dev Environments BETA

Docker Scout

Extensions

Add Extensions

Containers

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
<input type="checkbox"/>	guiky_sammet	ubuntu	Exited (130)	0%		16 minutes ago	<div></div>
<input type="checkbox"/>	stuffed_cord	node	Running	0%		6 minutes ago	<div></div>

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 0.80%

Signed in

New version available

1425

15-04-2024

Redirecting... | Docker Hub

Microsoft Edge | What's New

Docker Hub

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

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

docker buildcloud

AI/ML DEVELOPMENT

LLM Everywhere: Docker and Hugging Face

Set up a local development environment for Hugging Face with Docker

LLM

SOFTWARE SUPPLY CHAIN

Take action on prioritized insights

Bridge the gap between development workflows and security needs

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+

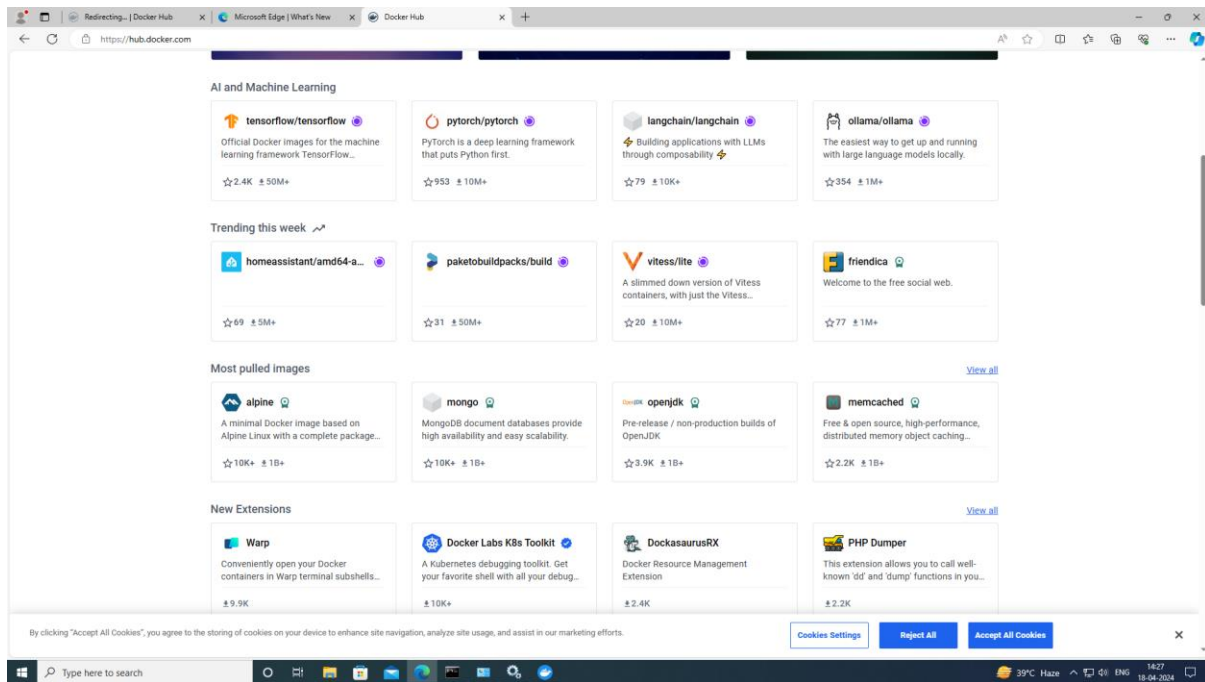
Trending this week

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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.