



assingment

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Docker assignment:

1. **Install Docker:**

Ensure Docker is installed on your machine. You can download the Docker Desktop application from the official Docker website.

2. **Verify Installation:**

Open a terminal or command prompt and run 'docker --version' to ensure Docker is installed correctly.

3. **Pull a Docker Image:**

Use the `docker pull` command to download a Docker image. For example, you can pull the official Nginx image: ```bash

docker pull nginx

4. **Run a Container:**

Start a container using the pulled image. For instance, to run Nginx on port 8080:

```bash

docker run -d -p 8080:80 nginx

5. \*\*Check Running Containers:\*\*

View the list of running containers with:

```bash

docker ps

6. **Access Container Logs:**

Inspect the logs of a running container:

```bash

docker logs <container id>

. . . .

7. \*\*Build a Docker Image:\*\*

Create a Dockerfile to define your custom image. For example, create a simple web app:

```Dockerfile

FROM nginx

COPY index.html /usr/share/nginx/html

Build the image with:

```bash

docker build -t my-web-app .

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8. \*\*Run Container from Custom Image:\*\*

Run a container using the newly built image:

```bash

docker run -d -p 8081:80 my-web-app

9. **Push Image to Docker Hub:**

Create an account on Docker Hub (https://hub.docker.com/), then push your custom image:

```bash

docker login

docker tag my-web-app username/my-web-app

docker push username/my-web-app

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## 10. \*\*Explore Docker Compose:\*\*

Create a `docker-compose.yml` file to define a multi-container application. Use it to orchestrate multiple services, set up networks, and volumes.

## 11. \*\*Clean Up:\*\*

Remove containers and images that are no longer needed: ```bash docker stop <container\_id> docker rm <container\_id> docker rmi <image\_id>

Remember to tailor this assignment based on your specific goals or project requirements. Docker has extensive documentation that can be referenced for more in-depth exploration of its features.

Cheers,

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