Docker Assignment 1

1. What is Docker?

Docker is a set of platform as a service products that use OS-level virtualization to deliver software in packages called containers.

1. What is a Container?

A container is a runnable instance of an image.

1. What are Docker Images?

A Docker image is a file used to execute code in a Docker container. Docker images act as a set of instructions to build a Docker container

1. What is Docker Hub?

Docker Hub is a service provided by Docker for finding and sharing container images with your team

1. Explain Docker Architecture?

The Docker architecture consists of 5 components:

Docker Client, Docker Host, Network, storage, registry.

1. What is a Dockerfile?

A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image.

1. What is the purose of the EXPOSE command in Dockerfile?p

the EXPOSE instruction tells Docker to get all its information required during the runtime from a specified Port

1. Why is docker monitoring necessary?

Detect and solve issues early and proactively to avoid risks in production

1. Explain the implementation method of continuous integration (CI) and continuous deployment (CD) in Docker.

The CI/CD can be implemented using github actions(and others like circle ci) with the use of testing framework in between and dockerfiles to execute each of these commands.

1. What is a Docker Engine?

Docker Engine is the core product of Docker, including its daemon (dockerd) as well as its CLI (docker). Docker Daemon is simply a part of Docker Engine