1. What is Docker, and why is Docker used?

Docker is an open platform for developing, shipping, and running applications. Docker enables you to separate your applications from your infrastructure so you can deliver software quickly. Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allows you to run many containers simultaneously on a given host.Docker streamlines the development lifecycle by allowing developers to work in standardized environments using local containers which provide your applications and services.

2. Explain the Docker architecture?

Docker uses a client-server architecture. The Docker client talks to the Docker daemon, which does the heavy lifting of building, running, and distributing your Docker containers. The Docker client and daemon can run on the same system, or you can connect a Docker client to a remote Docker daemon. The Docker client and daemon communicate using a REST API, over UNIX sockets or a network interface. Another Docker client is Docker Compose, that lets you work with applications consisting of a set of containers.

3. What do you mean by 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. A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image.

4. What do you mean by Docker Images?

Docker Image is an executable package of software that includes everything needed to run an application. This image informs how a container should instantiate, determining which software components will run and how.

5. What do you mean by Docker Hub?

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

6. Which command can be used to check Docker Client and Docker Server Version?

docker version

7. How to create a Docker container from an Image?

To create a Docker container from an image, we can use the *docker run* command. The docker run command requires one parameter and that is the image name