here are 20 short, point-to-point Docker interview questions along with their answers:

1. What is Docker?

Docker is an open-source platform that automates the deployment of applications inside containers.

2. What is a Docker container?

A Docker container is a lightweight, standalone, executable package of software that includes everything needed to run an application, including the code, runtime, libraries, and dependencies.

3. What is Docker image?

A Docker image is a read-only template used to create Docker containers. It contains the filesystem of the application and runtime configuration.

4. What is Docker Hub?

Docker Hub is a cloud-based repository provided by Docker to store and share Docker images.

5. How do you create a Docker container from an image?

You create a Docker container from an image using the docker run command. For example:

bash

Copy code

docker run <image-name>

6. How do you list running Docker containers?

You can list running Docker containers using the docker ps command.

7. How do you stop a Docker container?

You can stop a Docker container using the docker stop command. For example:

bash

Copy code

docker stop <container-id>

8. How do you remove a Docker container?

You can remove a Docker container using the docker rm command. For example:

bash

Copy code

docker rm <container-id>

9. How do you remove a Docker image?

You can remove a Docker image using the docker rmi command. For example:

bash

Copy code

docker rmi <image-id>

10. How do you build a Docker image from a Dockerfile?

- You can build a Docker image from a Dockerfile using the docker build command. For example: bash docker build -t <image-name> .

11. What is a Dockerfile?

- A Dockerfile is a text file that contains instructions for building a Docker image.

12. What is Docker Compose?

- Docker Compose is a tool for defining and running multi-container Docker applications. It allows you to use a YAML file to configure your application's services.

13. How do you start a Docker container in detached mode?

- You can start a Docker container in detached mode using the -d flag with the docker run command. For example: bash docker run -d <image-name>

14. How do you map a port from a Docker container to the host?

- You can map a port from a Docker container to the host using the -p flag with the docker run command. For example: bash docker run -p <host-port>:<container-port> <image-name>

15. What is Docker Swarm?

- Docker Swarm is a native clustering and orchestration tool for Docker. It turns a pool of Docker hosts into a single, virtual Docker host.

16. How do you create a Docker Swarm service?

- You can create a Docker Swarm service using the docker service create command. For example: bash docker service create --name <service-name> <image-name>

17. How do you scale a Docker Swarm service?

- You can scale a Docker Swarm service using the docker service scale command. For example: bash docker service scale <service-name>=<number-of-replicas>

18. What is Docker volume?

- A Docker volume is a persistent data storage mechanism that lives outside of the container's lifecycle.

19. How do you create a Docker volume?

- You can create a Docker volume using the docker volume create command. For example: bash docker volume create <volume-name>

20. How do you mount a Docker volume to a container?

– You can mount a Docker volume to a container using the -v flag with the docker run command. For example: bash docker run -v <volume-name>:<container-mount-path> <image-name>