

1. What is docker ?

Docker is an open platform for developing, shipping, and running applications. Docker enables you to separate your applications from your infrastructure so you.

2. what is difference between vm's and docker ?

Hypervisors(VM's) ,guestos(VM's), libraries sharable (docker),
more resources(docker)

3. what is dockerfile?

- Plain Text file
- That contains different command to build a Image
- (FROM, MAINTAINER, RUN, CMD, LABEL, EXPOSE, ENV, ADD, COPY, ENTRYPOINT, VOLUME, USER, WORKDIR)

https://kapeli.com/cheat_sheets/Dockerfile.docset/Contents/Resources/Documents/index

4. what is difference between the kill and stop?

The **docker stop** command stops the container gracefully and provides a safe way out. If a **docker stop** command fails to terminate a process within the specified timeout, the Docker issues a kill command implicitly and immediately.

5. what is difference between and ADD and COPY commands in a dockerfile ?

copying of local files into the container

- Add (download Tar file and unzip it)
- Add (use to download remote sources)
- CoPy (use to multistage dockerfile)

6. what is difference between CMD and ENTRYPOINT ?

- Both are used to Execution time or Run time.
- CMD can override Parameter during Run time
- If multiple CMD's are there only latest One will execute(Last one)

7. which is the base image you will prefer your docker file ?
Alpine(size 5MB)

8. how login a running container → docker ps

9. how to check live logs in docker containers?

→ docker logs --tail 5 container_name_or_ID

10. how to check no.of containers running your machine ? --> docker ps

11. how to check stop and running containers ? → docker ps -a

12. what is port forwarding ? -p 8181:9090

13. How to run a container in background? → docker run -d <Img/tag>

14. what is first line in a dockerfile ? → ARG, FROM <baseImg>

15. what are the commands have you used in your docker file ?

FROM RUN CMD ENTRYPOINT label workdir COPY ADD EXPOSE
VOLUME ENV ARG HEALTHCHECK

15. what is label in dockerfile? → Label <meta@data>

16. what is docker tag command ?

→ <Image Names> docker build -t <t name>, docker tag

17. How you store data persistently ? volumes

[docker volume create <volumeName>]

2types: `/var/lib/docker/volumes/`

Bind mounts may be stored anywhere on the host system.

tmpfs mounts are stored in the host system's memory only

18. have you worked on docker volumes? -v

hostmachie/path:container/data/path

19. what is docker network ? types of networks ?

There are three common Docker network types - **bridge networks**, used within a single host, **overlay networks**, for multi-host communication, and **macvlan networks** which are used to connect Docker containers directly to host network interfaces.

20. I have a one web application is running on one container and database is running in one container how you communicate these two containers? -> --link , properties files,[database-info]

21. where you are store docker images?--> ecr, nexus , docker Hub

22. how to run multiple containers at a time? → docker compose

23. what is difference between exec and attach ? →

The `docker exec` command runs a new command in a running container. execute the below command after restarting container nodeapi.

```
// start the container
docker start nodeapi// execute the exec command
docker exec -it nodeapi bash
```

once attached, you can do all the cli commands like you can check the node version, run the bundle file, exit etc..

Docker attach

This command to attach your terminal's standard input, output, and error (or any combination of the three) to a running container using the container's ID or name. attach the running container with the following command. you need to press enter once execute this command, docker is waiting for your input.

```
docker attach nodeapi
```

24. what is save and load commands in docker?

docker commit

Create a new image from a container's changes