1. What is Docker?

A : Docker is mechanism to create the container

1. What is the advantage of Docker over hypervisors?
2. What is Docker Images?
3. What is Docker Container?
4. What is Docker hub?
5. How to create Docker container?
6. How many containers can run per host? (100 container IMP {As per computer requirement})
7. Is Container technology new?
8. What are the network that are available by default?

A: Bridge: It is default network all containers connect to if you don’t specify the network yourself.

None: Connects to a container-specific network stack that looks a network interface

Host: Connects

1. Difference between Docker image and container?

A: Docker container is the runtime instance of docker image. Docker images does not have a state, and its state never changes as it is just set of file whereas docker container has its execution state

1. What is difference b/w docker and VM?

VM 🡺 Server> Host OS > Hypervisor > Gust OS > Binaries/Lib > Your App

Docker 🡺 Server > Host OS > Docker Engine > Bin/Libs > Your App

1. Why do my service take 10 seconds to recreate or stop ?
2. How do I run multiple copies of a Compose file on the same host?

A: Custom project name using the –p command line opion or the COMPOSE\_PROJECT\_NAME environment variable.

1. Can I use Json instead of yaml for my compose file?

A : Docker-compose –f docker-compose.json up ( Docker compose can support YAML and JSON)

1. Should I include my code with COPY/ADD or a volume?

(OR)

What is difference between ADD and COPY in Dockerfile?

1. How do you save Docker Image?

A: Docker save –o image.tar.gz container-tag

1. Tell us something about Docker Compose?

A : contains details about the services, networks, and volumes for setting up the Docker application.

1. What is Docker Swarm?
2. What is a Docker Namespace?(Concept came from Linux)

A : Docker Namespace is concept lacks to involve users, groups

1. What is the lifecycle of a Docker Container?

A : Create a container, Run the container, Pause the container (Optional),Un-pause the container(Optional), start the container, stop the container, Restart the container, Kill the container, Destroy the container.

1. What is Docker Machine?
2. How to check for Docker client and Docker server version?
3. How do you get the number of containers running ,paused and stopped?

A : docker info.

1. How to get help about any docker commend?
2. How to login into docker repository?
3. How do you create a docker container from an image?

A: docker run –it –d image\_name

1. How do you list all the running containers?

A: docker ps

1. Suppose you have 3 containers running and out of these, you wish to access one of them. How do you access a running Container ?

A: docker exec –it container-id bash

1. How to start,stop and kill a container?

A: Docker start container-id, docker stop container-id, docker kill container-id

1. How do you push it to docker hub?

A: docker push username/image name

1. How to delete a stopped container ?

A : docker rm container-id.

1. How to delete an image from the local storage system?

A: docker rmi Image-id

1. How to build an image from Dockerfile?

A: docker build

1. Do you know why docker system prune is used? What does it do ?

A: docker system prune is used to remove all stopped containers.

1. Will you lose your data, when a docker continer exists?

A: No

1. Is there a way to identify the status of a docker container?

A: docker ps –a

1. Can a container restart by itself?

A: By default that flag –restart is set to false.

1. Is it better to directly remove the container using the rm commend or stop the container followed by remove container?

A: The data will lose

1. IS it good practice to run stateful application on Docker?
2. What is a Docker Registry?

A: Docker cloud and Docker Hub are the public registries where these images can be hosted upon. Docker Data Centre (DDC) Can also be used which includes DTR( Docker Trusted Registry).

1. What are Docker Objects?

A: Docker Objects are Docker Images, Services, And Docker Containers.

1. Can you tell reasons why container Networking is so important?

A: Containers needs to talk to external world.

. Reach Containers from external world to use the service that Containers provides.

. Allows Containers to talk to host machine.

. Inter-container connectivity in same host and across hosts.

. Discover services provided by containers automatically.

. Load balance traffic between different containers in a service.

. Provided secure multi-tenent services.

1. How to create a user-defined Bridge network?

A: docker network create your\_name

1. How is overlay network different from bridge network?

A: Bridge works on single host overlay supports among multiple servers connectivity.

1. What networks are affected when you join a docker host to an existing Swarm?
2. How shall you disable the network stack on container?

A: docker run –it –network none alpine sh

1. How to check details of network in a docker container?

A: docker inspect container-id.

1. Can you explain different volume mount types available in Docker?

A: Volumes: are started in part of the host filesystem which is managed by Docker (/var/lib/docker/volumes/)on Linux.

Bind mounts may be stored anywhere on the host system.

tmps mounts are stored in the host system’s memory only and are never written to the host system’s filesystem.

1. What is the role of .dockerignore file?

A: You have Dockerfile inside docker file using ADD/COPY commend suppose in you don’t what all files inside the container at the time mention .dockerignore which files so that it skip that files.

1. What is the purpose of EXPOSE commend in Dockerfile?

A: The is used for port mapping between docker host and docker container.

1. How is ENTRYPOINT instruction under Dockerfile different from CMD instruction ?

A: FROM Alpine

CMD [“/etc/passwd’, ‘’/etc/shadow”] (CMD commend pass arguments )

ENTRYPOIND[“cat”] (ENTRYPOINT commend executive files)

1. Why Build cache in docker is so important?

A: If Objects are not changed between two builds of docker container image ,docker can use build cache with becomes time saver at the time of building images.

1. What are the most common instructions in Dockerfile?

A: FROM : , MAINTAINER: , LABEL: , RUN:

1. State-full vs stateless application.

A: A stateless app is an application program that does not save client data generated in one session for use in the next session with that client