1. What is Docker?

a) A virtualization technology

b) A containerization platform

c) A cloud service

d) A programming language

Answer: b

2. What is the primary benefit of Docker containers over traditional virtualization?

a) They are more secure

b) They are faster to start

c) They use less memory

d) They support more operating systems

Answer: b

3. What is a Docker image?

a) A running container

b) A snapshot of a container's file system

c) A Docker registry

d) A Docker volume

Answer: b

4. How do you start a Docker container from an image?

a) docker start

b) docker create

c) docker run

d) docker launch

Answer: c

5. What command is used to list all running containers?

a) docker ps

b) docker list

c) docker running

d) docker containers

Answer: a

6. What is the purpose of a Dockerfile?

a) To list all Docker containers in a project

b) To define the structure and dependencies of a Docker image

c) To run a Docker container

d) To remove all stopped containers

Answer: b

7. Which Docker command is used to build a Docker image from a Dockerfile?

a) docker build

b) docker create

c) docker start

d) docker run

Answer: a

8. What is a Docker container volume used for?

a) Sharing Docker images

b) Storing environment variables

c) Persisting data between container runs

d) Defining container networking

Answer: c

9. How can you expose a port from a Docker container to the host system?

a) Use the -e flag in the docker run command

b) Use the --expose flag in the docker run command

c) Use the -p flag in the docker run command

d) Use the --port flag in the docker run command

Answer: c

10. What is Docker Compose used for?

a) To create Docker images

b) To manage multi-container applications

c) To scale Docker containers

d) To monitor Docker container logs

Answer: b

11. What is the primary use case for Docker Swarm?

a) Container orchestration and management

b) Creating Docker images

c) Running containers on Windows

d) Container networking

Answer: a

12. How do you scale a service in Docker Swarm to run multiple replicas?

a) Use the docker service add command

b) Use the docker service scale command

c) Edit the Docker Compose file

d) Use the docker run command with a replica count

Answer: b

13. Which Docker command is used to push a Docker image to a registry?

a) docker export

b) docker push

c) docker upload

d) docker share

Answer: b

14. What is the default storage driver used by Docker on most Linux distributions?

a) OverlayFS

b) AUFS

c) Btrfs

d) ZFS

Answer: a

15. How can you remove all stopped Docker containers?

a) docker stop -a

b) docker remove

c) docker prune containers

d) docker container prune

Answer: d

16. Which Docker command is used to view the logs of a running container?

a) docker log

b) docker view

c) docker logs

d) docker show

Answer: c

17. What is the primary purpose of Docker Registry?

a) To run Docker containers

b) To create Docker images

c) To store and share Docker images

d) To manage Docker volumes

Answer: c

18. What does a Docker Compose file define?

a) Docker images

b) Docker containers

c) Multi-container applications

d) Docker networks

Answer: c

19. Which command can be used to remove an image from the local Docker image cache?

a) docker delete

b) docker clean

c) docker rmi

d) docker uninstall

Answer: c

20. What does the docker network create command do?

a) Creates a new Docker container

b) Creates a new Docker image

c) Creates a new Docker network

d) Creates a new Docker volume

Answer: c