

Top 43 Docker Interview Questions and Answers (2022 Update)

By David Taylor ⓘ Updated April 30, 2022

Following are frequently asked Docker job interview questions for fresher as well as experienced DevOps engineers.

1. What is Docker?

Docker is an open-source lightweight containerization technology. It has gained widespread popularity in the cloud and application packaging world. It allows you to automate the deployment of

applications in lightweight and portable containers.

2. What are the advantages of using Docker container?

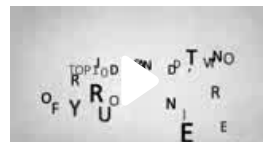
Here, are a major advantage of using Docker.

- Offers an efficient and easy initial set up
- Allows you to describe your application lifecycle in detail
- Simple configuration and interacts with Docker Compose.
- Documentation provides every bit of information.

3. What are the important features of Docker?

Here are the essential features of Docker:

- Easy Modeling
- Version control
- Placement/Affinity
- Application Agility
- Developer Productivity

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4. What are the main drawbacks of Docker?

Some notable drawbacks of Docker are:

- Doesn't provide a storage option
- Offer a poor monitoring option.
- No automatic rescheduling of inactive Nodes
- Complicated automatic horizontal scaling set up

5. What is Docker image?

The Docker image help to create Docker containers. You can create the Docker image with the build command. Due to this, it creates a container that starts when it begins to run. Every docker images are stored in the Docker registry.

6. What is Docker Engine?

Docker daemon or Docker engine represents the server. The docker daemon and the clients should be run on the same or remote host, which can communicate through command-line client binary and full RESTful API.

7. Explain Registries

There are two types of registry is

- Public Registry
- Private Registry

Docker's public registry is called Docker hub, which allows you to store images privately.

8. What command should you run to see all running container in Docker?

```
$ docker ps
```

9. Write the command to stop the docker container

```
$ sudo docker stop container name
```

10. What is the command to run the image as a container?

```
$ sudo docker run -i -t alpine /bin/bash
```

11. What are the common instruction in Dockerfile?

The common instruction in Dockerfile are: FROM, LABEL, RUN, and CMD.

12. What is memory-swap flag?

Memory-swap is a modified flag that only has meaning if- memory is also set. Swap allows the container to write excess memory requirements to disk when the container has exhausted all the RAM which is available to it.

13. Explain Docker Swarm?

Docker Swarm is native clustering for Docker which helps you to group Docker hosts into a single and virtual Docker host. It offers the standard Docker application program interface.

14. How can you monitor the Docker in production environments?

Docker states and Docker Events are used to monitor Docker in the production environment.

15. What are the states of Docker container?

Important states of Docker container are:

- Running
- Paused
- Restarting
- Exited

16. What is Docker hub?

Docker hub is a cloud-based registry that which helps you to link to code repositories. It allows you to build, test, store your image in Docker cloud. You can also deploy the image to your host with the help of Docker hub.

17. What is Virtualization?

Virtualization is a method of logically dividing mainframes to allow multiple applications to run simultaneously.

However, this scenario changed when companies and open source communities were able to offer a method of handling privileged instructions. It allows multiple OS to run simultaneously on a single x86 based system.

18. What is Hypervisor?

machines operate. It controls the guest systems and checks if the resources are allocated to the guests as necessary.

19. Explain Docker object labels

Docker object labels is a method for applying metadata to docker objects including, images, containers, volumes, network, swarm nodes, and services.

20. Write a Docker file to create and copy a directory and built it using python modules?

```
FROM python:2.7-slim
```

```
WORKDIR /app
```

```
COPY . /app
```

```
docker build -tag
```

21. Where the docker volumes are stored?

You need to navigate:

```
/var/lib/docker/volumes
```

22. List out some important advanced docker commands

Command	Description
docker info	Information Command
docker pull	Download an image
docker stats	Container information
Docker images	List of images downloaded

23. How does communication happen between Docker client and Docker Daemon?

You can communicate between Docker client and Docker Daemon with the combination of Rest API, socket.IO, and TCP.

24. Explain Implementation method of Continuous Integration(CI) and Continues Development (CD) in Docker?

You need to do the following things:

- Runs Jenkins on docker
- You can run integration tests in Jenkins using docker-compose

25. What are the command to control Docker with Systemd?

```
systemctl start/stop docker  
service docker start/stop
```

26. How to use JSON instead of YAML compose file?

```
docker-compose -f docker-compose.json up
```

27. What is the command you need to give to push the new image to Docker registry?

```
docker push myorg/img
```

28. How to include code with copy/add or volumes?

In docker file, we need to use COPY or ADD directive. This is useful to relocate code. However, we should use a volume if we want to make changes.

The Docker containers can be scaled to any level starting from a few hundred to even thousands or millions of containers. The only condition for this is that the containers need the memory and the OS at all times, and there should not be a constraint when the Docker is getting scaled.

30. What is the method for creating a Docker container?

You can use any of the specific Docker images for creating a Docker container using the below command.

```
docker run -t -i command name
```

This command not only creates the container but also start it for you.

31. What are the steps for the Docker container life cycle?

Below are the steps for Docker life cycle:

- Build
- Pull
- Run

32. How can you run multiple containers using a single service?

By using docker-compose, you can run multiple containers using a single service. All docker-compose files uses yaml language.

33. What is CNM?

CNM stands for Container Networking Model. It is a standard or specification from Docker, Inc. that forms the basis of container networking in a Docker environment. This docker's

34. Does Docker offer support for IPV6?

Yes, Docker provides support IPv6. IPv6 networking is supported only on Docker daemons runs on Linux hosts. However, if you want to enable IPv6 support in the Docker daemon, you need to modify `/etc/docker/daemon.json` and set the `ipv6` key to `true`.

35. Can you lose data when the container exits?

No, any data that your application writes to disk get stored in container. The file system for the contain persists even after the container halts.

36. What are a different kind of volume mount types available in Docker?

Bind mounts- It can be stored anywhere on the host system

37. How to configure the default logging driver under Docker?

To configure the Docker daemon to default to a specific logging driver. You need to set the value of `log-driver` to the name of the logging drive the `daemon.json` file.

38. Explain Docker Trusted Registry?

Docker Trusted Registry is the enterprise-grade image storage toll for Docker. You should install it after your firewall so that you can securely manage the Docker images you use in your applications.

39. What are Docker Namespaces?

The Namespace in Docker is a technique which offers isolated workspaces called the Container. Namespaces also offer a layer of isolation for the Docker containers.

40. What are the three components of Docker Architecture

- Client
- Docker-Host

41. What is client?

Docker provides Command Line Interface tools to the client to interact with Docker daemon.

42. What is the purpose of Docker_Host?

It contains container, images, and Docker daemon. It offers a complete environment to execute and run your application.

43. How do I run multiple copies of Compose file on the same host?

Compose uses the project name which allows you to create unique identifiers for all of a project's containers and other resources. To run multiple copies of a project, set a custom project name using the -a command-line option or using COMPOSE_PROJECT_NAME environment variable.

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