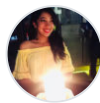


# Top 50 Docker Interview Questions You Must Prepare In 2022

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Introduced in 2013, Docker hit the IT industry. Soon it turned out to be a big hit by the end of 2017 with 8 billion container image downloads. Increasing demand for docker showed an exponential increase in job openings. Go ahead and take advantage of all the new job openings with this article which lists down 50 most important *Docker Interview Questions*.

I have categorized these 50 questions into:

- [Docker Basic Questions](#)
- [Docker Basic Commands](#)
- [Docker Advanced Questions](#)

## Docker Basic Questions

This category of Docker Interview Questions consists of questions that you're expected to know. These are the most basic questions. An interviewer will start with these and eventually increase the difficulty level. Let's have a look at them.

### 1. What is Hypervisor?

A hypervisor is a software that makes virtualization possible. It is also called Virtual Machine Monitor. It divides the host system and allocates the resources to each divided virtual environment. You can basically have multiple OS on a single host system. There are two types of Hypervisors:

- Type 1: It's also called Native Hypervisor or Bare metal Hypervisor. It runs directly on the underlying host system. It has direct access to your host's system hardware and hence does not require a base server operating system.
- Type 2: This kind of hypervisor makes use of the underlying host operating system. It's also called Hosted Hypervisor.

### 2. What is virtualization?

Virtualization is the process of creating a software-based, virtual version of something(compute storage, servers, application, etc.). These virtual versions or environments are created from a single physical hardware system. Virtualization lets you split one system into many different sections which act like separate, distinct individual systems. A software called Hypervisor makes this kind of splitting possible. The virtual environment created by the hypervisor is called Virtual Machine.

### 3. What is containerization?

Let me explain this with an example. Usually, in the software development process, code developed on one machine might not work perfectly fine on any other machine because of the dependencies. This problem was solved by the containerization concept. So basically, an application that is being developed and deployed is bundled and wrapped together with all its configuration files and dependencies. This bundle is called a container. Now when you wish to run the application on another system, the container is deployed which will give a bug-free environment as all the dependencies and libraries are wrapped together. Most famous containerization environments are Docker and Kubernetes.

### 4. Difference between virtualization and containerization



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Once you've explained containerization and virtualization, the next expected question would be differences. The question could either be differences between virtualization and containerization or differences between virtual machines and containers. Either

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Since its a Docker interview, there will be an obvious question about what is Docker. Start with a small definition.

Docker is a containerization platform which packages your application and all its dependencies together in the form of containers so as to ensure that your application works seamlessly in any environment, be it development, test or production. Docker containers, wrap a piece of software in a complete filesystem that contains everything needed to run: code, runtime, system tools, system libraries, etc. It wraps basically anything that can be installed on a server. This guarantees that the software will always run the same, regardless of its environment.

## 6. What is a Docker Container?

Docker containers include the application and all of its dependencies. It shares the kernel with other containers, running as isolated processes in user space on the host operating system. Docker containers are not tied to any specific infrastructure: they run on any computer, on any infrastructure, and in any cloud. Docker containers are basically runtime instances of Docker images.

## 7. What are Docker Images?

When you mention Docker images, your very next question will be "what are Docker images".

Docker image is the source of Docker container. In other words, Docker images are used to create containers. When a user runs a Docker image, an instance of a container is created. These docker images can be deployed to any Docker environment.

## 8. What is Docker Hub?

Docker images create docker containers. There has to be a registry where these docker images live. This registry is Docker Hub. Users can pick up images from Docker Hub and use them to create customized images and containers. Currently, the [Docker Hub](#) is the world's largest public repository of image containers.

## 9. Explain Docker Architecture?

Docker Architecture consists of a Docker Engine which is a client-server application with three major components:

1. A server which is a type of long-running program called a daemon process (the docker command).
  2. A REST API which specifies interfaces that programs can use to talk to the daemon and instruct it what to do.
  3. A command line interface (CLI) client (the docker command).
  4. The CLI uses the Docker REST API to control or interact with the Docker daemon through scripting or direct CLI commands.
- Many other Docker applications use the underlying API and CLI.

Refer to this blog, to read more about [Docker Architecture](#).


## 10. What is a Dockerfile?

Let's start by giving a small explanation of Dockerfile and proceed by giving examples and commands to support your arguments.

Docker can build images automatically by reading the instructions from a file called Dockerfile. A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image. Using docker build, users can



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