**Interview Questions on Docker:**

1. **What is Docker?**

**Docker is a container management service. The keywords of Docker are develop, ship and run anywhere. The whole idea of Docker is for developers to easily develop applications, ship them into containers which can then be deployed anywhere.**

**The initial release of Docker was in March 2013 and since then, it has become the buzzword for modern world development, especially in the face of Agile-based projects.**

2. What are differences between Docker and Hypervisors? / How is a Docker container different from a hypervisor?

**3. What is Docker image?**

**In Docker, everything is based on Images. An image is a combination of a file system and parameters. Let’s take an example of the following command in Docker.**

**docker run hello-world**

* **The Docker command is specific and tells the Docker program on the Operating System that something needs to be done.**
* **The run command is used to mention that we want to create an instance of an image, which is then called a container.**
* **Finally, "hello-world" represents the image from which the container is made.**

**4. What is Docker container?**

**Containers are instances of Docker images that can be run using the Docker run command. The basic purpose of Docker is to run containers. Let’s discuss how to work with containers.**

5. What is the difference between Docker image and Docker container?

**6. What is Docker hub?**

**Docker Hub is a registry service on the cloud that allows you to download Docker images that are built by other communities. You can also upload your own Docker built images to Docker hub.**

7. How id Docker different from other container technologies?

8. What is Docker Swarm?

9. What is Docker file used for?

10. Can I use json instead of yaml for my compose file in Docker? / Can we write compose file in json file instead of yaml?

11. Tell us how you have used Docker in your past position?

12. How to create Docker container?

13. How to stop and restart the Docker container?

14. How far do Docker containers scale?

**15. What platforms does Docker run on?**

**I will start this answer by saying Docker runs on only Linux and Cloud platforms and then I will mention the below vendors of Linux:**

**Ubuntu 12.04, 13.04 et al**

**Fedora 19/20+**

**RHEL 6.5+**

**CentOS 6+**

**Gentoo**

**Arch Linux**

**Opens USE 12.3+**

**CRUX 3.0+**

**Cloud:-**

**Amazon EC2**

**Google Compute Engine**

**Microsoft Azure**

**Rackspace …. Note that Docker does not run on Windows or Mac.**

**16. Do I lose my data when the Docker container exists?**

**You can answer this by saying, no I won’t lose my data when Docker container exits, any data that your application writes to disk gets preserved in its container until you explicitly delete the container. The file system for the container persists even after the container halts.**

17. Mention some commonly used Docker command?

18. How will you remove an image from Docker?

19. Can we run multiple apps on one server with Docker?

20. What are the common use cases of Docker?

21. What are the main features of Docker-compose?

22. What is the most popular use of Docker?

23. What is the role of open source development in the popularity of Docker?

24. What is the difference between Docker commands: up, run and start?

1. What is Docker Swarm?
2. What are the features of Docker Swarm?
3. What is a Docker Image?
4. What is a Docker Container?
5. What is Docker Machine?
6. Why do we use Docker Machine?
7. How will you create a Container in Docker?
8. Do you think Docker is Application-centric or Machine-centric?
9. Can we lose our data when a Docker Container exits?
10. Can we run more than one process in a Docker container?
11. What are the objects created by Docker Cloud  in Amazon Web Services (AWS) EC2?
12. How will you take backup of Docker container volumes in AWS S3?
13. What are the three main steps of Docker Compose?
14. What is Pluggable Storage Driver architecture in Docker based containers?
15. What is Docker Hub?
16. What are the main features of Docker Hub?
17. What are the main security concerns with Docker based containers?
18. What are the security benefits of using Container based system?
19. How can we check the status of a Container in Docker?
20. What are the main benefits of using Docker?
21. How does Docker simplify Software Development process?
22. What is the basic architecture behind Docker?
23. What are the popular tasks that you can do with Docker Command line tool?
24. What type of applications- Stateless or Stateful are more suitable for Docker Container?
25. How can Docker run on different Linux distributions?
26. Why do we use Docker on top of a virtual machine?
27. How can Docker container share resources?
28. What is the difference between Add and Copy command in a Dockerfile?
29. What is Docker Entrypoint?
30. What is ONBUILD command in Docker?
31. What is Build cache in Docker?
32. What are the most common instructions in Dockerfile?
33. What is the purpose of EXPOSE command in Dockerfile?
34. What are the different kinds of namespaces available in a Container?
35. How will you monitor Docker in production?
36. What are the Cloud platforms that support Docker?
37. How can we control the startup order of services in Docker compose?
38. Why Docker compose does not wait for a container to be ready before moving on to start next service in dependency order?
39. How will you customize Docker compose file for different environments?