

Docker Interview Questions

Master the top Docker interview questions and answers and crack your next Docker interview. Our interview questions on Docker cover various topics like container, Docker registry, fundamental components of a typical docker architecture, and the different major network drivers supported in Docker ecosystem. This ultimate list of expert-curated Docker container interview questions and answers can be the gateway to your next job as a DevOps engineer, or a Java developer. Prepare well and leave the best impression on your employers.

● 4.5 Rating

● 37 Question(s)

● 25 Mins of Read

● 6325 Reader(s)

BEGINNER

1.

How is Docker different from standard virtualization using VMs?

Virtual Machines (VMs) virtualize the underlying hardware. They run on physical hardware via an intermediation layer known as a hypervisor. They require additional resources are required to scale-up VMs.

They are more suitable for monolithic applications. Whereas, Docker is operating system level virtualization. Docker containers userspace on top of the host kernel, making them lightweight and fast. Up-scaling is simpler, just need to create another container from an image.

Generally, Docker is more suitable for Microservices based cloud applications.

f (<https://www.facebook.com/sharer.php?s=100&t=How+is+Docker+different+from+standard+virtualization+using+VMs%3F&s=How+is+Docker+different+from+standard+virtualization+using+VMs%3F&questions%2Fdocker%23collapse-beginner-2873>)
in (<https://www.linkedin.com/sharing/share-offsite?url=https%3A%2F%2Fwww.knowledgehut.com%2Finterview-questions%2Fdocker%23collapse-beginner-2873&title=How+is+Docker+different+from+standard+virtualization+using+VMs%3F>)
[Add Bookmark](#)

2.

What are the major components of Docker Architecture?

3.

What is a Volume in docker?

4.

When is .dockerignore file used?

5.

What is docker-compose?

6.

What is Docker Hub?

7.

Explain basic Docker usage workflow.

8.

What are the steps involved while using Docker for application development?

INTERMEDIATE

Levels

1.

What are containers?

A container is a standalone unit of software that packages together applications with all its dependencies and configurations. Containers help in abstracting applications from the computing environment in which they run. Containers help in running the applications correctly in various computing environments. This helps to resolve the biggest problem "It doesn't work in my system. Multiple containers in an isolated manner can co-exist in a host system. All containers share the common host operating system. Thus making the containers lightweight and more preferable than virtual machines.

Detaching applications from its environment helps container-based applications to be deployed faster and on any on-premise systems or cloud. Developers with the help of containers can now concentrate on how to develop an application rather than how to run an application on different environments. IT operations teams focus on deployment and management rather than with application details such as specific software versions and configurations. Main competitors for containers are the virtual machines. Virtual machines are not lightweight compared to containers.

Containerization as a strategy is used as a practice across digital transformation due to its capability to bring a DevOps culture. The Dockerfile which defines the configuration of the image also acts as Infra as code up to some extent. Thus enabling teams to abstract their infrastructure in the form of code.

f (<https://www.facebook.com/sharer.php?s=100&t=What+are+containers%3F&s=What+are+containers%3F&u=https%3A%2F%2Fwww.knowledgehut.com%2Finterview-questions%2Fdocker%23collapse-beginner-2858>)
in (<https://www.linkedin.com/sharing/share-offsite?url=https%3A%2F%2Fwww.knowledgehut.com%2Finterview-questions%2Fdocker%23collapse-beginner-2858&title=What+are+containers%3F>) [Add Bookmark](#)

2.

Why do we need containers? Give at least 3 reasons.

3.

Tell me the differences between virtual machines and containers?

4.

What is Docker?

5.

What are the container platforms available other than docker?

6.

What are the basic actions performed on the docker container?

7.

What are the disadvantages of Docker?

8.

What is docker image?

9.

What is the difference between ADD and COPY in Dockerfile?

10.

What is the difference between ENTRYPOINT and CMD in Dockerfile?

11.

How is Kubernetes related to Docker?

12.

What is Docker Swarm?

13.

Can you compare Chef with Docker?

14.

Levels

How does Docker play a role in Continuous Integration?

15.

Why Docker is chosen compared to other container platforms?

ADVANCED

1.

What is Docker architecture?

Docker is having a client-server architecture. The Docker client talks to the Docker daemon. Docker daemon helps in building, running, and distributing your Docker containers. The Docker client and daemon can co-exist on the same system or on different systems. This client-daemon connection is done via REST API.

- **The Docker daemon**

The Docker daemon is also known as docker engine manages docker objects such as images, containers, networks, and volumes. Communication with other docker daemons also happens through this. Docker daemon is started by the command "dockerd". Docker daemon talks with the kernel manages system calls for creation, running, destroying, etc of containers.

- **The Docker client**

The Docker client is the utility we use when we use commands such as docker run. The Docker client sends these requests to Docker daemon, which does the rest. One Docker client can connect with more than one Docker daemon.

- **Docker registries**

A Docker registry is where the Docker images are stored. Docker Hub is a public registry and docker searches for images on Docker Hub by default. Other registries are Docker Datacenter (DDC), which also includes the Docker Trusted Registry (DTR). Whenever docker pull or docker run commands are executed, the required images are pulled from the registry. We can also push the newly created docker images to Docker registry.

f (<https://www.facebook.com/sharer.php?s=100&t=What+is+Docker+architecture%3F&s=What+is+Docker+architecture%3F&u=https%3A%2F%2Fwww.knowledgehut.com%2Finterview-questions%2Fdocker%23collapse-beginner-2867>)
in (<https://www.linkedin.com/sharing/share-offsite?url=https%3A%2F%2Fwww.knowledgehut.com%2Finterview-questions%2Fdocker%23collapse-beginner-2867&title=What+is+Docker+architecture%3F>) [Add Bookmark](#)

2.

What is Docker Swarm?

3.

What is developer workflow of docker?

4.

What are Dockerfiles?

5.

What are docker-compose.yml files?

6.

What is Docker volume mounting?

7.

What are the basic built-in security features of Docker?

8.

What is the swarm mode Public Key Infrastructure?

9.

What are the basic instructions used in Dockerfile and how they differ from each other?

10.

Levels

What is Docker context?

11.

How to work with docker build cache?

12.

What are the networks used in Docker Swarm?

13.

Explain different types of volume mounts in docker.

14.

Explain the purpose of the .dockerignore file.

Submit an interview question

DESCRIPTION

Docker is an open source software development platform which runs software packages called “containers”. A container is a standard unit of software that packages up all the dependencies of an application so that the application runs quickly and reliably from one computing environment to another.

Today there are more than thousands of vacancies available for the Docker developers, only thing is you must be thorough with all the component of Docker technologies. It is very difficult for a person to grab a job in today's date. Companies look forward to hiring a candidate who has a deep knowledge of the subject. The average pay for a Software Engineer with Docker skills is **\$90,805**

[READ MORE](#)

RELATED INTERVIEW QUESTIONS

[Data Engineer Interview Questions \(https://www.knowledgehut.com/interview-questions/data-engineer\)](https://www.knowledgehut.com/interview-questions/data-engineer)
[Web Developer Interview Questions \(https://www.knowledgehut.com/interview-questions/web-developer\)](https://www.knowledgehut.com/interview-questions/web-developer)
[Python Flask Interview Questions and Answers \(https://www.knowledgehut.com/interview-questions/flask\)](https://www.knowledgehut.com/interview-questions/flask)
[Vue.js Interview Questions \(https://www.knowledgehut.com/interview-questions/vue-js\)](https://www.knowledgehut.com/interview-questions/vue-js)
[Perl Interview Questions \(https://www.knowledgehut.com/interview-questions/perl\)](https://www.knowledgehut.com/interview-questions/perl)
[Ajax Interview Questions \(https://www.knowledgehut.com/interview-questions/ajax\)](https://www.knowledgehut.com/interview-questions/ajax)
[Express \(https://www.knowledgehut.com/interview-questions/express\)](https://www.knowledgehut.com/interview-questions/express)
[Scrum \(https://www.knowledgehut.com/interview-questions/scrum\)](https://www.knowledgehut.com/interview-questions/scrum)
[Agile Testing \(https://www.knowledgehut.com/interview-questions/agile-testing\)](https://www.knowledgehut.com/interview-questions/agile-testing)
[React Native \(https://www.knowledgehut.com/interview-questions/react-native\)](https://www.knowledgehut.com/interview-questions/react-native)

USEFUL LINKS

[Django classroom training in Charlotte \(https://www.knowledgehut.com/web-development/django-training-charlotte\)](https://www.knowledgehut.com/web-development/django-training-charlotte)
[Ruby On Rails classes in Orlando \(https://www.knowledgehut.com/web-development/ruby-on-rails-training-orlando\)](https://www.knowledgehut.com/web-development/ruby-on-rails-training-orlando)
[Spring Framework training online in Ottawa \(https://www.knowledgehut.com/web-development/spring-framework-training-ottawa\)](https://www.knowledgehut.com/web-development/spring-framework-training-ottawa)
[PMP Certification Exam Changes 2018 \(https://www.knowledgehut.com/blog/project-management/project-management-professional-pmp-whats-new-in-60\)](https://www.knowledgehut.com/blog/project-management/project-management-professional-pmp-whats-new-in-60)
[Hadoop Administration training in Manama \(https://www.knowledgehut.com/big-data/hadoop-administration-training-manama \)](https://www.knowledgehut.com/big-data/hadoop-administration-training-manama)
[Mongo DB Administration training in Orlando \(https://www.knowledgehut.com/web-development/mongodb-administrator-orlando\)](https://www.knowledgehut.com/web-development/mongodb-administrator-orlando)

Levels

Big Data Analysis with Hadoop course in Baltimore (<https://www.knowledgehut.com/big-data/big-data-and-hadoop-training-baltimore>)

Groovy on Grails classes in Columbus (<https://www.knowledgehut.com/web-development/groovy-and-grails-columbus>)

Connect with us

- <https://www.linkedin.com/company/knowledgehut>
<https://www.instagram.com/knowledgehut.global>
<https://twitter.com/KnowledgeHut>
- <https://www.facebook.com/KnowledgeHut.Global>
<https://www.youtube.com/user/TheKnowledgehut>

Get Our Weekly Newsletter

SUBSCRIBE

We Accept

USA : +1-469-442-0620 (tel:+1-469-442-0620), +1-832-684-0080 (tel:+1-832-684-0080)	
India : +91-84484-45027 (tel:+91-84484-45027) Toll Free: 1800-121-9232 (tel:1800-121-9232) UK: +44-2036085923 (tel:+44-2036085923)	Canada: +1-613-707-0763 (tel:+1-613-707-0763)
Singapore: +65-315-83941 (tel:+65-315-83941)	New Zealand: +64-36694791 (tel:+64-36694791)
Malaysia: +601548770914 (tel:+601548770914) Australia: +61-290995641 (tel:+61-290995641)	Ireland: +353-14402544 (tel:+353-14402544)
UAE: Toll Free 8000180860 (tel:8000180860)	

- Company
- Offerings
- Resources
- Partner with us
- Support
- Top Categories
- Top Courses

Top Categories

- Agile Management Courses
(<https://www.knowledgehut.com/agile-management>)
- Project Management Courses
(<https://www.knowledgehut.com/project-management>)
- IT Service Management Courses
(<https://www.knowledgehut.com/it-service-management>)
- Programming Courses
(<https://www.knowledgehut.com/programming>)
- Cloud Computing Courses
(<https://www.knowledgehut.com/cloud-computing>)
- Devops Courses
(<https://www.knowledgehut.com/devops>)
- Business Management Courses
(<https://www.knowledgehut.com/business-management>)
- Data Science Courses
(<https://www.knowledgehut.com/data-science>)

Top Courses

- CSM Certification
(<https://www.knowledgehut.com/agile-management/csm-certification-training>)
- PRINCE2 Certification
(<https://www.knowledgehut.com/project-management/prince2-foundation-and-practitioner-certification-training>)
- SAPO Certification
(<https://www.knowledgehut.com/devops/devops-foundation-certification-training>)
- Devops Foundation Certification
(<https://www.knowledgehut.com/devops/devops-foundation-certification-training>)
- Leading SAFe 5.1 Certification
(<https://www.knowledgehut.com/agile-management>)

Levels

Web Development Courses (https://www.knowledgehut.com/web-development)	BI and Visualization Courses (https://www.knowledgehut.com/business-intelligence-and-visualization)	management/leading-safe-business-certification-training) PSM Certification (https://www.knowledgehut.com/quality-management/psm-certification-training) PMP Certification (https://www.knowledgehut.com/quality-management/pmp-certification-training) ITIL Foundation Certification (https://www.knowledgehut.com/it-service-management/itil-foundation-certification-training)	Data Science with Python Certification (https://www.knowledgehut.com/data-science-with-python-certification-training) Full-Stack Development Bootcamp (https://www.knowledgehut.com/web-development/fullstack-development-bootcamp-training) Front-End Development Bootcamp (https://www.knowledgehut.com/web-development/front-end-development-bootcamp-training) Python Certification Training (https://www.knowledgehut.com/programming/python-programming-certification-training)
--	---	--	--

Disclaimer: KnowledgeHut reserves the right to cancel or reschedule events in case of insufficient registrations, or if presenters cannot attend due to unforeseen circumstances. You are therefore advised to consult a KnowledgeHut agent prior to making any travel arrangements for a workshop. For more details, please refer **Cancellation & Refund Policy** (<https://www.knowledgehut.com/refund-policy>).

CSM®, CSPO®, CSD®, CSP®, A-CSPO®, A-CSM® are registered trademarks of Scrum Alliance®. KnowledgeHut **READ MORE**