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# Docker

## Interview questions

Comment below how many  
answers you know !

1. How do you reduce the size of a Docker image?

Use a minimal base image (e.g., alpine).

Use multi-stage builds.

Remove unnecessary files and dependencies.

Use `.dockerignore` to exclude unwanted files.

2. How do you persist data in Docker containers?

Use Volumes (docker volume create myvolume).

Use Bind Mounts (-v /host/path:/container/path).

Use tmpfs mounts for non-persistent data.

3. How do you troubleshoot a failing Docker container?

Check logs: `docker logs <container_id>`

Check running processes: `docker top <container_id>`

Inspect the container: `docker inspect <container_id>`

Run in interactive mode: `docker run -it <image> /bin/sh`

4. What is the difference between ENTRYPOINT and CMD?

ENTRYPOINT: Defines the main command, cannot be overridden easily.

CMD: Provides default arguments, can be overridden when running a container.

5. How do you clean up unused Docker resources?

Remove stopped containers: `docker rm $(docker ps -aq)`

Remove unused images: `docker rmi $(docker images -q)`

Remove unused volumes: `docker volume prune`

6. How do you limit container resources?

CPU Limit: `docker run --cpus="1.5" <image>`

Memory Limit: `docker run -m 512m <image>`

7. How do you connect two Docker containers?

Use a Docker network:

```
docker network create mynetwork
```

```
docker run --network=mynetwork --  
name=app1 myimage
```

```
docker run --network=mynetwork --  
name=app2 myimage
```



8. What happens when you remove a running container?

If you run `docker rm <container_id>`, it fails.

You need to stop it first: `docker stop <container_id>` and then remove it.

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9. How do you update a running container without downtime?

Use rolling updates with Docker Compose:

```
docker-compose up -d --no-deps --build <service>
```

Use blue-green deployment with Docker Swarm/Kubernetes.

10. How do you secure a Docker container?

Use minimal base images.

Avoid running as root (USER nonroot).

Use signed images (docker trust).

Scan images for vulnerabilities (docker scan myimage).

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Comment "Part2" for Docker Interview Questions



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