

UiO / IFI / PUT
Autumn 2025
Questions on Containers

1. What is a container?
2. What is a Docker container image?
3. Is it correct to say that container images become containers at runtime?
4. Do containers isolate software from its environment, and ensure that it works uniformly despite differences for instance between development and staging?
5. In what engine do Docker Containers run?
6. What are the primitives leveraged by existing computing concepts around containers and specifically in the Linux world?
7. What are others container engines besides Docker Engine?
8. What are the main differences between the notions of a Container and a Virtual Machine?
9. Where are container images stored (with Docker)?
10. What is the timing taken when deploying a container?
11. How is a Docker image identified?
12. Where are copies of the latest deployed container images in Docker kept?
13. Does Docker uses a client-server architecture?
14. The Docker client and daemon can obviously run on the same system. Can you connect a Docker client to a remote Docker daemon?
15. What is Kubernetes?
16. Does the Docker Engine eliminates the ““it works on my laptop!” problem?
17. What are the main steps regarding application development before and after containers?
18. Mention 3 of the main commands provided by Docker and describe their functionality.

19. Does a bind must exist between a port in the local machine with the container port?
20. Can 2 or more containers in the same Isolated Docker Network communicate using their name without indicating the localhost and port?
21. What is the Docker command used to get the list of Docker Isolated Networks?
22. How many Docker Volume types are there? What are they?
23. Will containers eventually replace full-blown server virtualization?