

TEAM LEAD VERSION (Backend Sprint-4 Week-1)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

5m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Team work

5m

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Ask Questions

15m

1. What is docker?

- A.** provides on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered, pay-as-you-go basis.
- B.** set of platform as a service products that use OS-level virtualization to deliver software in packages called containers.
- C.** an open source automation server which enables developers around the world to reliably build, test, and deploy their software.
- D.** a composable observability platform, integrating metrics, traces and logs

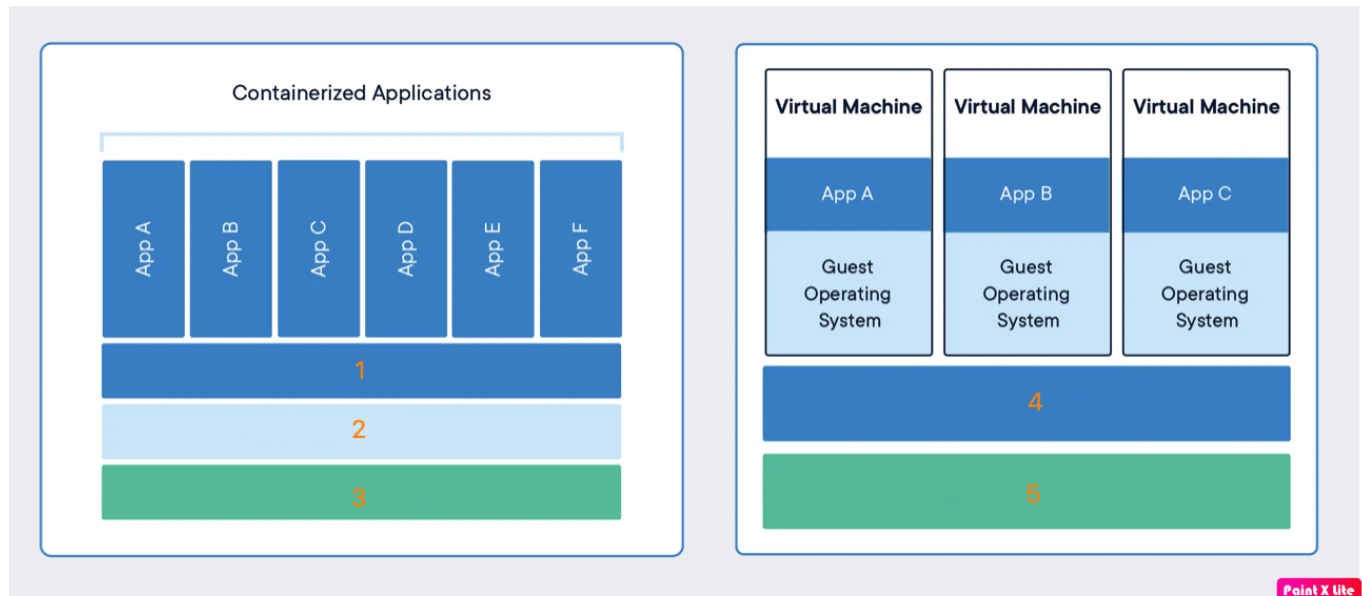
Answer: B

2. Docker vs Virtual Machines.. Which one is false?

- A.** VM boots up its own guest OS - A Docker container virtualizes only the application layer, and runs on top of the host operating system.
- B.** A virtual machine uses its own operating system and is independent of the host operating system that it's running on. Therefore, a VM is compatible with all operating systems. A Docker container, on the other hand, is compatible with any Linux distribution. You may run into some problems running Docker on a Windows machine or an older Mac.
- C.** A VM is lightweight and is typically in the order of kilobytes. A docker can be as large as a few gigabytes or even terabytes.
- D.** Docker containers provide near-native performance. Because they are lightweight, you can start them in a few milliseconds. Starting a VM is equivalent to setting up a standalone machine inside your computer. It can take as long as a few minutes to start a VM instance.

Answer: C

3.What is the correct order of the answers?



- A. 1-Host operating system 2- Docker engine 3-infrastructure 4- Virtual machine host 5- infrastructure
- B. 1-Docker engine 2- Host operating system 3-infrastructure 4- Host operating system 5- infrastructure
- C. 1-Docker engine 2- Host operating system 3-infrastructure 4- Hypervisor 5- infrastructure
- D. 1-Docker engine 2- Hypervisor 3-infrastructure 4- Host operating system 5- infrastructure

Answer: C

4. A text document that contains all the commands a user could call on the command line to assemble an image. Which concept is explained above?

- A. Dockerfile
- B. .dockerignore
- C. Docker image
- D. Docker container

Answer: A

5. In what format is the docker composite file created?

- A. JSON
- B. XML
- C. Markdown
- D. YAML

Answer: D

6. Which command runs images to container?

- A. docker build -t <user_name>/<image_name> .
- B. docker start|stop <container_name>
- C. docker container ls
- D. docker run -d -p <ext_port_number>:<int_port_number> --name <container_name> <image_name>

Answer: D)

7. docker build -t <user_name>/<image_name> . What is the purpose of this command?

- A. run and set container name
- B. Stop and delete passive containers/images/caches.
- C. Create images from dockerfile.
- D. List local images.

Answer: C

8. What is a Docker Registry?

- A. The docker engine runs behind the scenes
- B. service that hosts and distributes Docker images
- C. Orchestration of docker containers.
- D. Collections of docker files

Answer: B

9. Which class we should inherit for customising admin site?

- A. Generics
- B. ModelAdmin
- C. AdminSite
- D. APIViewn

Answer: B

10. The admin interface has the ability to edit models on the same page as a parent model. These are called Which expression is suitable for the blank?

- A. Fieldsets
- B. Register
- C. Inlines
- D. Models

Answer: C

Interview Questions

15m

1. Can you tell something about docker container?

Answer:

In simplest terms, docker containers consist of applications and all their dependencies. They share the kernel and system resources with other containers and run as isolated systems in the host operating system. The main aim of docker containers is to get rid of the infrastructure dependency while deploying and running applications. This means that any containerized application can run on any platform irrespective of the infrastructure being used beneath. Technically, they are just the runtime instances of docker images.

2. What are docker images?

Answer:

They are executable packages(bundled with application code & dependencies, software packages, etc.) for the purpose of creating containers. Docker images can be deployed to any docker environment and the containers can be spun up there to run the application.

3.What is a DockerFile?

Answer:

It is a text file that has all commands which need to be run for building a given image.

4. What can you tell about Docker Compose?

Answer:

It is a YAML file consisting of all the details regarding various services, networks, and volumes that are needed for setting up the Docker-based application. So, docker-compose is used for creating multiple containers, host them and establish communication between them. For the purpose of communication amongst the containers, ports are exposed by each and every container.

Coding Challenge

35m

There is no coding challenge

Coffee Break

10m



Video of the Week

10m

- [What Is Docker And How It Works?](#)

Retro Meeting on a personal and team level

5m

Ask the questions below:

- What went well?
- What went wrong?
- What is the improvement areas?

Case study/Project

0m

- [Dockerize Task Tracker App](#)

Closing

5m

-Next week's plan

-QA Session