TEAM LEAD VERSION (DevOps-Week-2)

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Microlearning
- ▶ Questions
- ▶ Interview/Certification Questions
- ▶ Coding Challenge
- ▶ Article of the week
- ▶ 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, AWS, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Team work 10m

- 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. How does Docker package and isolate applications and their dependencies ?

A. In containers
B. In virtual machines (VMs)
C. In databases
D. In physical servers

Answer: *A*

2. How do you stop a running Docker container ?

A. docker down <container_id>
B. docker stop <container_id>
C. docker halt <container_id>
D. docker kill <container_id>

Answer: *B*

3. How can you list all running Docker containers on your system ?

A. docker ps -a
B. docker list -a

C. docker ps
D. docker containers

Answer: *C*

4. What is the purpose of a Docker network ?

A. To configure load balancing for containers.
B. To create isolated network environments for containers.
C. To manage container storage.
D. To define container runtime behavior.

Answer: *B*

5. What is the primary purpose of Docker volumes ?

A. To define the container's runtime behavior.
B. To persist data generated and used by Docker containers.
C. To manage Docker networks.
D. To create new containers.

Answer: *B*

Interview/Certification Questions 20m

1. What is Docker, and how does it isolate applications ?

Answer:

Docker is a platform for developing, shipping, and running applications in containers. Containers provide application isolation by encapsulating the application, its dependencies, and the runtime environment, ensuring consistency across different environments.

2. What is a Docker image, and how is it created ?

Answer:

A Docker image is a lightweight, stand-alone, executable package that includes everything needed to run a piece of software, including the code, runtime, system tools, and libraries. Images are created using a Dockerfile, which specifies the application's components and how it should run.

3. What are the advantages of using Docker containers ?

Answer:

*Docker containers provide benefits such as efficient resource utilization, rapid application deployment, consistent environments, version control of application dependencies, and improved collaboration among developers and IT operations teams.

Question: Explain the concept of a Docker registry.*

4. What happens when you run a Docker image to create a container ?

Answer: *Running a Docker image initiates a new container based on the image's specifications. This container is an isolated instance that runs the application defined by the image, with its own file system, network, and resources.*

5. Explain the difference between a Docker image and a Docker container.

Answer: *A Docker image is a static, read-only template that contains application code, libraries, and dependencies. A Docker container is a runnable instance of an image, with its own writable file system, network, and process space. Containers are created from images.*

Article of the Week 10m

- What is Docker ?

Video of the Week 10m

- What Is Docker ? | What Is Docker And How It Works ?

Coding Challenge 5m

- Coding Challenge - 002 : Convert Milliseconds into Hours, Minutes, and Seconds

Retro Meeting on a personal and team level 10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Closing 5m

-Next week’s plan

-QA Session
