STUDENT VERSION (DevOps-Week-4)

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. What is the primary purpose of Kubernetes ?

A. Managing containers
B. Database administration
C. Networking virtual machines
D. Frontend web development

2. What Kubernetes resource defines the desired state for running containers ?

A. Pod
B. Service
C. ReplicaSet
D. Deployment

3. How are containers grouped together within a Pod in Kubernetes ?

A. By using the "containers" section in the Pod configuration
B. Containers cannot be grouped within a Pod
C. By specifying multiple "Pod" objects in a YAML file
D. By using the "initContainers" section in the Pod configuration

4. What is a Persistent Volume (PV) in Kubernetes ?

A. A volume that is backed by network-attached storage (NAS)

B. A volume that is created and managed directly by Pods

C. A volume used exclusively for temporary data storage

D. IA volume that retains data beyond the lifecycle of a Pod

5. What is the purpose of a Kubernetes Service ?

A. To provide access to external databases

B. To manage application configurations

C. To expose a set of Pods to network traffic

D. To schedule and scale containers

Interview/Certification Questions   20m

1. What is the purpose of a Kubernetes Service, and how does it enable communication between Pods ?

2. Describe the differences between a Kubernetes ConfigMap and a Secret, and when to use each one.

3. What is the main purpose of a Kubernetes Pod ?

4. What is the difference between a StatefulSet and a Deployment in Kubernetes ?

5. Explain the significance of the kubelet in a Kubernetes cluster.

Article of the Week   10m

- Kubernetes 101: Pods, Nodes, Containers, and Clusters

Video of the Week   10m

- Kubernetes

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?

Coding Challenge 5m

- [Convert To Roman Numerals](#)

Case study/Project 10m

Case study should be explained to the students during the weekly meeting and has to be completed in one week by the students. Students should work in small teams to complete the case study.

- [Project-204-docker-swarm-deployment-of-phonebook-app-on-python-flask-mysql-Terraform](#)

Closing 5m

-Next week's plan

-QA Session

-Next week's plan

-QA Session