STUDENT VERSION (DevOps-Week-3)

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ 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. Which of the following is the native clustering for Docker?

A. Docker Hub
B. Docker Swarm
C. Kubernetes
D. Docker Compose

2. By default, all manager nodes are also worker nodes and are capable of executing tasks when they have the resources available to do so. (Docker Swarm)

A. True
B. Flase

3. Which command is used to initialize Docker Swarm mode?

A. docker swarm create
B. docker init swarm
C. docker swarm init
D. docker swarm run

4. The command to create Kubernetes service is _____.

A. kubectl expose
B. kubectl set service
C. kubectl run
D. kubectl deploy

5. Which command is used to create a new deployment in kubernetes?

A. `kubernetes set deployment`
B. `kubernetes get deployment`
C. `kubectl run`
D. `kubectl deploy`

Interview/Certification Questions 20m

1. What is a pod in Kubernetes?

2. Do all of the nodes have to be at the same size in your cluster? (kubernetes)

3. What is Kubectl?

4. You work for a big company having multiple applications that are very different from each other. These applications are built using different programming languages. How could you deploy these applications as quickly as possible?

A. Develop all the apps in a single Docker container and deploy using Elastic Beanstalk.
B. Create a Lambda function deployment package consisting of code and any dependencies.
C. Develop each app in a separate Docker container and deploy using Elastic Beanstalk.
D. Develop each app in separate Docker containers and deploy using CloudFormation.

5. You own a MySQL RDS instance in AWS Region us-east-1. The instance has a Multi-AZ instance in another availability zone for high availability. As business grows, there are more and more clients coming from Europe (eu-west-2) and most of the database workload is read-only. What is the proper way to reduce the load on the source RDS instance?

A. Create a snapshot of the instance and launch a new instance in eu-west-2.
B. Promote the Multi-AZ instance to be a Read Replica and move the instance to eu-west-2 region.
C. Configure a read-only Multi-AZ instance in eu-west-2 as Read Replicas cannot span across regions.
D. Create a Read Replica in the AWS Region eu-west-2.

Article of the Week 10m

- How to Use Git/GitHub without asking for authentication always: Passwordless Usage of Private Git Repositories

Video of the Week 10m

- A Guide to the DevOps Technical Interview

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

- Coding Challenge: Morse Translator

Case study/Project 10m

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

- Project-203: Dockerization bookstore api on python-flask-mysql

Closing 5m

-Next week's plan

-QA Session
