STUDENT VERSION (DevOps-Week-5)

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview/Certification 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, 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 can we delete a local git repository?

A. `git rm --cached filename`
B. `git diff --staged`
C. `rm -rf .git`
D. `you can not delete a local repository`

2. How can we setup Jenkins jobs?

A. Select new item from the menu
B. After that enter a name for the job and select free-style job
C. Then click OK to create new job in Jenkins
D. The next page enables you to configure your job
E. All of these

3. The command to create Kubernetes service is _____.

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

4. 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`

5. _____ runs on each node and ensures containers are running in a pod. (Kubernetes)

A. Kubelet
B. Etcd
C. Scheduler
D. Pod

Interview/Certification Questions 20m

1. A company requires an open-source system for automating the deployment, scaling, and management of containerized applications. Which of the following would be ideal for such a requirement?

A. Use the Amazon Elastic Container Service for Kubernetes.
B. Install a custom orchestration tool on EC2 Instances.
C. Use SQS to orchestrate the messages between docker containers.
D. Use AWS Lambda functions to embed the logic for container orchestration.

2. Your company has a legacy application that uses the monolithic architecture. You need to design a new microservices architecture for the application and host it in AWS. The application should be dockerized so that it can be easily deployed.

Which of the following AWS services would you choose to host the application?

A. Elastic Kubernetes Engine
B. Amazon Lambda
C. Elastic Container Registry
D. Elastic Container Service

3. You have launched an ECS cluster with 5 EC2 instances with its task definitions. However, ECS is not getting any status information back from the container agent in each ECS instance. What could be the reason? (choose 3 options)

A. IAM role used to run ECS instance does not have ecs:Poll action in its policy
B. Key-pair information is missing in ECS cluster.
C. ECS Instance security groups' outbound rules are not allowing traffic to ECS service endpoint
D. Interface VPC endpoint is not configured for ECS service.
E. You are running ECS on t2.micro instance type which is not supported.

4. What is a pod in Kubernetes?

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

Video of the Week 10m

- Kubernetes in 5 mins

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: Vote Count

Case study/Project 10m

- Project-204: Docker Swarm Deployment of Phonebook Application (Python Flask) with MySQL

Closing 5m

-Next week's plan

-QA Session
