

# STUDENT VERSION (DevOps-Week-11)

---



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. Which programming language is commonly used to define Jenkins Pipelines ?

- A. Java
- B. Python
- C. Groovy
- D. JavaScript

### 2. What is ECR ?

- A. Elastic Container Registry
- B. Elastic Compute Resource
- C. Elastic Container Runtime
- D. Elastic Container Repository

### 3. What is Jenkins Pipeline ?

- A. A tool for continuous integration and delivery
- B. An orchestration tool for containerized applications
- C. A database management system
- D. A version control system

**4. What is the purpose of Jenkins Pipeline in the context of deploying Docker images on ECR to ECS cluster ?**

- A. To automate the building and deployment of Docker images
- B. To manage the networking configuration of ECS clusters
- C. To monitor the health and performance of ECS services
- D. To provide secure authentication for accessing ECR repositories

**5. What is the primary purpose of Prometheus ?**

- A. Container orchestration
- B. Service discovery
- C. Monitoring and alerting
- D. Log management

### Interview/Certification Questions

20m

**1. What is the purpose of using Amazon Elastic Container Registry (ECR) in the Jenkins Pipeline for deploying Docker images ?**

**2. How can you configure Jenkins to authenticate with ECR for pulling and pushing Docker images ?**

**3. What is the role of Amazon Elastic Container Service (ECS) in the Jenkins Pipeline deployment process ?**

**4. How can you monitor the deployment process of Docker images to the ECS cluster in the Jenkins Pipeline ?**

**5. What are the main components required for setting up a basic Prometheus monitoring environment ?**

### Article of the Week

10m

- [How to monitor Jenkins metrics using Prometheus & Grafana?](#)

## Video of the Week

10m

- [Prometheus Monitoring With Grafana](#)

## 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: Fibonacci](#)

## 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-208: Jenkins Pipeline for Web Page Application](#)

## Closing

5m

-Next week's plan

-QA Session

---