

# STUDENT VERSION (DevOps-Week-4)

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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- ▶ Icebreaking
- ▶ Microlearning
- ▶ Questions
- ▶ Interview/Certification Questions
- ▶ Coding Challenge
- ▶ Article of the week
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

# Teamwork Schedule

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## 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 HPA (Horizontal Pod Autoscaling) in Kubernetes used for ?

- A. Creating new pods horizontally
- B. Scaling pods vertically
- C. Automatically adjusting the number of pod replicas based on resource usage
- D. Managing pod security

### 2. What is StorageClass used for in Kubernetes ?

- A. Creating Kubernetes clusters
- B. Defining how storage volumes are provisioned and managed
- C. Managing network policies
- D. Configuring pod security

### 3. What is the primary purpose of an Ingress controller in Kubernetes ?

- A. To create and manage Kubernetes services
- B. To configure routing rules for incoming external traffic
- C. To scale pods horizontally
- D. To manage CPU and memory resources

**4. Helm Charts can be used to:**

- A. Deploy only applications
- B. Deploy only services
- C. Deploy complex applications and services as a single unit
- D. Deploy Kubernetes clusters

**5. What does EKS do to simplify Kubernetes cluster management ?**

- A. Manually deploys clusters
- B. Automates cluster deployments and updates
- C. Provides a Kubernetes development environment
- D. Offers Kubernetes consulting services

**Interview/Certification Questions****20m**

**1. What does Amazon EKS provide as a managed Kubernetes service ?**

**2. In Kubernetes, what is the primary role of Ingress resources ?**

**3. When does HPA add more pod replicas to a deployment in Kubernetes ?**

**4. What is the primary goal of the Microservices architecture pattern ?**

**5. In Amazon EKS, can you choose different Kubernetes versions when creating a cluster ?**

**Article of the Week****10m**

- [What is Kubernetes?](#)

**Video of the Week****10m**

- [What is Kubernetes?](#)

## Coding Challenge

5m

- [Coding Challenge 004 : Validate Combination of Brackets](#)

## 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.**

- [206-Kubernetes-Microservice-Phonebook](#)

## 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

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