

# 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 the primary purpose of Kubernetes Horizontal Pod Autoscaler (HPA) ?

- A. To scale the number of Kubernetes nodes based on resource utilization
- B. To scale the number of pods in a deployment based on resource utilization
- C. To automatically provision storage volumes for pods
- D. To manage network traffic between pods in a Kubernetes cluster

### 2. What is the primary purpose of a Kubernetes StorageClass ?

- A. To define policies for pod scheduling in a Kubernetes cluster
- B. To specify the type and size of storage volumes for pods
- C. To manage network traffic between pods in a Kubernetes cluster
- D. To define access control policies for Kubernetes resources

### 3. What is Ingress in Kubernetes ?

- A. A Kubernetes object used to manage pod scheduling
- B. A Kubernetes object used to expose HTTP and HTTPS routes from outside the cluster to services within the cluster
- C. A Kubernetes resource used to define custom metrics for Horizontal Pod Autoscaling
- D. A Kubernetes feature for managing network policies

**4. What is the purpose of a Kubernetes PersistentVolumeClaim (PVC) ?**

- A. To specify the storage requirements for a pod
- B. To request storage resources from a StorageClass
- C. To create a new volume in a Kubernetes cluster
- D. To define network policies for pod communication

**5. What is the primary benefit of using Kubernetes Pod Scheduling?**

- A. Improved security for pod communication
- B. Increased fault tolerance and high availability
- C. Better resource utilization and workload balancing
- D. Enhanced monitoring and logging capabilities

**Interview/Certification Questions****20m****1. What is Kubernetes Networking and why is it important in a Kubernetes cluster ?****2. What are Kubernetes Volumes and how do they address the storage needs of pods?****3. Explain the role of Kubernetes Secrets and ConfigMap in managing sensitive information and configuration data within Kubernetes.****4. Describe the purpose of Kubernetes StorageClass and Ingress in managing storage resources and routing external traffic to Kubernetes services.****5. What is Pod Scheduling in Kubernetes and how does it work ?****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](#)

## 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