# STUDENT VERSION (DevOps-Week-7)

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 commands will merge `branch-a` into the `master` branch?**

**A.** `git checkout branch-a` and `git merge master`
**B.** `git clone branch-a` and `git merge master`
**C.** `git checkout master` and `git merge branch-a`
**D.** `git branch branch-a` and `git merge master`

**2. Replication Controller makes sure that a pod or a homogeneous set of pods is always up and available? (Kubernetes)**

**A.** True
**B.** Flase

**3. What are the two components Jenkins is mainly integrated with?**

**A.** Version Control system like GIT,SVN
**B.** RDBS
**C.** Anaconda
**D.** Build tools like Apache Maven

**4. What kind of a repository do you need if you to connect to other repositories in order to obtain different binaries? (Nexus)**

**A.** Proxy

**B.** Hosted

**C.** General

**D.** Dynamic

**5. What is the main difference between an artifact repository manager and a version control system? (Nexus)**

**A.** You store what you develop in a version control system and what you build in an artifact repository

**B.** Artifact repository can only be used by 1 person whereas version control systems are for teams

**C.** Artifact repositories give more memory for less price.

**D.** Version control systems are slower to obtain the code.

## Interview/Certification Questions                                                          20m

**1. For which of the following scenarios should a Solutions Architect consider using ElasticBeanStalk? (Choose Two)**

**A.** A web application using Amazon RDS

**B.** An Enterprise Data Warehouse

**C.** A long-running worker process

**D.** Capacity provisioning and load balancing of website

**E.** A management task run once on nightly basis

**2. You have 2 development environments hosted in 2 different VPCs in an AWS account in the same region. There is now a requirement to access the resources of one VPC from another. How could this be accomplished?**

**A.** Establish a Direct Connect connection.

**B.** Establish a VPN connection.

**C.** Establish VPC Peering.

**D.** Establish Subnet Peering.

**3. You have an application developed in .NET. This applications works with the S3 buckets in a particular region. The application is hosted on an EC2 Instance. Which of the following should ideally be used to ensure that the EC2 Instance has the appropriate access to the S3 buckets?**

**A.** AWS Users

**B.** AWS Groups

**C.** AWS IAM Roles

**D.** AWS IAM Policies

**4. You are requested to expose your serverless application implemented with AWS Lambda to HTTP clients.( using HTTP Proxy )**
**Which of the following AWS services can you use to accomplish the task? (Select TWO)**

**A.** AWS Elastic Load Balancing (ELB)
**B.** AWS Route53
**C.** AWS API Gateway
**D.** AWS Lightsail
**E.** AWS Elastic Beanstalk

**5. An application currently allows users to upload files to an S3 bucket. You want to ensure that the file name for each uploaded file is stored in a DynamoDB table. How could this be achieved? (SELECT TWO)**

**A.** Create an AWS Lambda function to insert the required entry for each uploaded file.
**B.** Use AWS CloudWatch to probe for any S3 event.
**C.** Add an event in S3 with notification send to Lambda.
**D.** Add the CloudWatch event to the DynamoDB table streams section.

## Article of the Week                                                    10m

- [Automating Installation Of Kubernetes Cluster On AWS — Part 1](#)

## Video of the Week                                                    10m

- [Docker vs Kubernetes vs Docker Swarm | Comparison 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: Generate Password](#)

## 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-206: Microservice Architecture for Phonebook Web Application (Python Flask) with MySQL using Kubernetes

## Closing                                                                      5m

-Next week's plan

-QA Session

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