STUDENT VERSION (DevOps-Week-1)

TEAMWORK

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. What is Terraform primarily used for in infrastructure provisioning ?

A. Version control
B. Continuous Integration
C. Infrastructure as Code (IaC)
D. User interface design

2. What is the main advantage of using Terraform to manage infrastructure ?

A. It provides automatic security updates.
B. It enables direct interaction with cloud provider consoles.
C. It allows for consistent and reproducible infrastructure provisioning.
D. It automates software development processes.

3. In Terraform, what is a "resource" ?

A. A logical grouping of related infrastructure components.
B. A code repository for Terraform configurations.
C. A step in the provisioning process.
D. A piece of infrastructure, like a virtual machine or network.

4. What is a "Terraform configuration" ?

A. A script that automates Terraform installation.

B. A JSON file used to define infrastructure components.

C. A set of declarative statements that describe desired infrastructure resources.

D. A plugin used for version control.

5. What is a "provider" in Terraform ?

A. A person responsible for managing Terraform configurations.

B. A cloud service or system that hosts infrastructure resources.

C. A type of Terraform configuration.

D. A tool used for continuous deployment.

Interview/Certification Questions   20m

1. What is the main purpose of Terraform in infrastructure provisioning and management ?

2. What is Infrastructure as Code (IaC), and how does Terraform implement it ?

3. What is the difference between a "resource" and a "data source" in Terraform ?

4. What is a "Terraform provider" ?

5. How does the "terraform init" command prepare a Terraform configuration for execution ?

Article of the Week   10m

- What is Terraform ?

Video of the Week   10m

- Terraform explained in 15 mins

Coding Challenge   5m

- Coding Challenge - 001 : Convert to Roman Numerals

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.

- 202-Terraform-Phonebook-Application-deployed-on-AWS

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