

TEAM LEAD VERSION (DevOps-Week-1)



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

Answer: C

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.

Answer: C

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.

Answer: D

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.

Answer: C

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.

Answer: B

Interview/Certification Questions

20m

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

Answer:

Terraform is used to define, create, and manage infrastructure as code, providing a consistent and repeatable way to provision resources across various cloud platforms and data centers.

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

Answer:

Infrastructure as Code (IaC) refers to managing and provisioning infrastructure using code and automation. Terraform implements IaC by allowing users to define infrastructure resources and configurations in declarative code.

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

Answer:

A "resource" in Terraform represents a component that you create, modify, or delete, such as a virtual machine or a network. A "data source" is used to fetch information from an external system, like cloud metadata or APIs, to use within your Terraform configuration.

4. What is a "Terraform provider" ?

Answer: A Terraform provider is responsible for managing and interacting with a specific cloud or service provider. It defines the API interactions and resources that Terraform can manage within that provider.

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

Answer: The "terraform init" command initializes the working directory by downloading the necessary provider plugins and setting up backend configuration, ensuring that Terraform can interact with the chosen provider and store state.

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
