

STUDENT VERSION (Week-14)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

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

Teamwork Schedule

Ice-breaking

10m

- 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 command is used to terminate the Terraform-managed infrastructure?

- A. terraform terminate
- B. terraform erase
- C. terraform delete
- D. terraform destroy

2. Which of the following is a log integration system of Grafana?

- A. Prometheus
- B. Loki
- C. MySQL
- D. Graphite

3. How does Prometheus collect its metrics?

- A. By scraping HTTP endpoints based on pull mechanism
- B. By using service discovery
- C. By adding custom code to set which metrics will be monitored
- D. Metrics are set through a YAML configuration file

4. What are the default ports for Prometheus and Grafana?

- A. Prometheus: **8080** Grafana: **3306**
- B. Prometheus: **9000** Grafana: **3030**
- C. Prometheus: **9090** Grafana: **3000**
- D. Prometheus: **3306** Grafana: **9090**

5. What is a Kubernetes volume?

- A. The software within an OS that controls capacity allocation for nodes
- B. A directory for the data accessible to containers in a pod
- C. Layering software that puts apps into compartments for easier deployment
- D. Code that enables two software programs to communicate

Interview/Certification Questions**20m**

1. You own a MySQL RDS instance in AWS Region us-east-1. The instance has a Multi-AZ instance in another availability zone for high availability. As business grows, there are more and more clients coming from Europe (eu-west-2) and most of the database workload is read-only. What is the proper way to reduce the load on the source RDS instance?

- A. Create a snapshot of the instance and launch a new instance in eu-west-2.
- B. Promote the Multi-AZ instance to be a Read Replica and move the instance to eu-west-2 region.
- C. Configure a read-only Multi-AZ instance in eu-west-2 as Read Replicas cannot span across regions.
- D. Create a Read Replica in the AWS Region eu-west-2.

2. Your development team has just finished developing an application on AWS. This application is created in .NET and is hosted on an EC2 instance. The application currently accesses a DynamoDB table and is now going to be deployed to production. Which of the following is the ideal and most secure way for the application to access the DynamoDB table?

- A. Pass API credentials to the instance using instance user data.
- B. Store API credentials as an object in Amazon S3.
- C. Embed the API credentials into your JAR files.
- D. Assign an IAM role to the EC2 Instances

3. You have an application that has been dockerized. You plan to deploy the application in an AWS ECS cluster. As the application gets configuration files from an S3 bucket, the ECS containers should have the AmazonS3ReadOnlyAccess permission. What is the correct method to configure the IAM permission?

- A. Add an environment to the ECS cluster configuration to allow the S3 read only access.
- B. Add the AmazonS3ReadOnlyAccess permission to the IAM entity that creates the ECS cluster.
- C. Modify the user data of ECS instances to assume an IAM role that has the AmazonS3ReadOnlyAccess permission.
- D. Attach the AmazonS3ReadOnlyAccess policy to the ECS container instance IAM role. Attach this role when creating the ECS cluster**

4. What is "idempotency"?

5. How to Terraform work?

Video of the Week

5m

- [Terraform Explained](#)

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

- [Fibonacci](#)

We assume that each group has two sub teams. Each week, one of the sub-teams will present their solution.

Closing

5m

-Next week's plan

-QA Session
