STUDENT VERSION (Week-24)

TEAMWORK

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 20m

1. What is the trigger function in AWS Lambda?

2. What is Amazon API Gateway?

3. What are the Reading Methods of the CSV Files in Python?

4. Give some examples of standard errors that occour in Python.

5. How to Load a Module in Python?

Interview/Certification Questions 20m

1. Which of the following is a serverless compute offering from AWS?

A. AWS EC2
B. AWS Lambda
C. AWS SNS
D. AWS Config
E. AWS SQS

2. Your company is currently hosting a heavy load application on its On-premise environment. The company has developed this application in-house. Consulting companies then use this application via API calls. You now need to consider moving this application to AWS. Which of the following services would best be suited in the architecture design, which would also help deliver a cost-effective solution? Choose 2 answers from the options given below.

A. AWS Lambda
B. AWS API Gateway
C. AWS Config
D. AWS EC2

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. A professional educational institution maintains a dedicated web server and database cluster that hosts an exam results portal for modules undertaken by its students. The resource is idle for most of the learning cycle and becomes excessively busy when exam results are released. How can this architecture be improved to be cost-efficient?

A. Configure AWS elastic load-balancing between the webserver and database cluster
B. Configure RDS multi-availability zone for performance optimisation
C. Configure serverless architecture leveraging AWS Lambda functions
D. Migrate the web servers onto Amazon EC2 Spot Instances

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.

Video of the Week 10m

- Exceptions in Python

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?

Problem of the week 5m

- Students should work in small teams to complete the problem of the week.

"Then again, maybe some of you have come to Hogwarts in possession of abilities so formidable that you feel confident enough to not pay attention."

- Harry Potter and the Sorcerer's Stone

I was sitting on my computer when a friend rushed by, staring intently at something. He shoved me aside and, still looking at the figure in the distance, hurriedly typed something before running off towards it. When I looked at the screen it read:

ueuag rKJ AGIQ GIAR FEgN

What important message was my friend trying to tell me?

Answer: _ _ _ _ _ _

Presentation of Coding Challenge & POW 20m

We assume that each group has two sub teams. If this is possible one of the sub teams will present the coding challenge of last week. The other sub team will present the solution to the previous problem of the week. If there is only one sub team then, the sub team will present both of the solutions.

Coding Challenge 5m

- Codding Challenge: Calculating the Amount of Water to be Trapped on Terrain

Presentation of Case Study of Previous Sprint 20m

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

Case study/Project 10m

Case study should be explained to the students during the weekly meeting and has to be completed in one sprint (2 weeks) by the students. Students should work in small teams to complete the case study.

- Project-004 : Phonebook Application (Python Flask) deployed on AWS Application Load Balancer with Auto Scaling and Relational Database Service using AWS Cloudformation

Closing 5m

-Next week's plan

-QA Session
