

STUDENT VERSION (Week-5)



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.

Ask Questions

20m

1. What will be the output?

```
m = [[1, 2], [4, 5, 6]]
for i in range(0, 2):
    print(m[i][1], end=" ")
```

- A. 1 4
- B. 2 5
- C. error
- D. 1 2 4

2. What is the command to view all the available partitions on the system in linux?

3. Which of the following is not the disadvantages of SQL?

- A. It requires strict coordination with database developers
- B. The requests must be determined correctly in advance
- C. Low flexibility due to the determined scheme
- D. Join functions are not available in SQL

4. Which of the statements below are true about Databases?

- I- Databases make the information meaningful and useful
- II- Database is an organized collection of data.
- III- Database only stores data. So, you can't fetch any information from the database

- A. II-III
- B. I-III
- C. I-II-III
- D. I-II

5. Which of the below is a false statement in python?

- A. `int(144) == 144`
- B. `int('144') == 144`
- C. `int(144.0) == 144`
- D. None of the above

Answer: D

Interview/Certification Questions

20m

1. Why is Amazon DynamoDB service best-suited for implementation in mobile, Internet of Things (IoT) and gaming applications?

- A. DynamoDB is a fully-managed database instance with no infrastructure overheads
- B. DynamoDB has a flexible data model and single-digit millisecond latency
- C. Whilst in operation, DynamoDB instances are spread across at least three geographically distinct centers, AWS Regions
- D. DynamoDB supports eventual and strongly consistent reads

2. What is the AWS service which provides a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability?

- A. AWS RDS
- B. DynamoDB
- C. Oracle RDS
- D. Elastic Map Reduce

3. Which of the following AWS managed database services provides processing power that is up to 5X faster than a traditional MySQL database.

- A. MariaDB
- B. Aurora
- C. PostgreSQL
- D. DynamoDB

4. Your development team is planning to host a development environment on the cloud. This consists of EC2 and RDS instances. This environment will probably only be required for 2 months. Which types of instances would you use for this purpose?

Which feature should be used to enable this requirement?

- A. On-Demand
- B. Spot
- C. Reserved
- D. Dedicated Hosts

5. You are creating a number of EBS Volumes for the EC2 Instances hosted in your company's AWS account. The company has asked you to ensure that the EBS volumes are available even in the case of an entire region facing an outage due to a natural disaster. How would you accomplish this? Choose 2 answers from the options given below

- A. Configure Amazon Storage Gateway with EBS volumes as the data source and store the backups on premise through the storage gateway
- B. Create snapshots of the EBS Volumes.
- C. Ensure the snapshots are made available in another availability zone
- D. Ensure the snapshots are made available in another region

Coding Challenge

10m

- [Coding Challenge: Rock, paper, scissors](#)

Video of the Week

5m

- [DevOps & Continuous Delivery Lifecycle 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?

Case study/Project

15m

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-003 : To-Do Web API \(Python Flask\) deployed on AWS EC2 and RDS using Cloudformation](#)

Closing

5m

-Next week's plan

-QA Session
