

# STUDENT VERSION (Week-5)

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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

# Teamwork Schedule

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## 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. What is the main use of AWS CLI?

The AWS Command Line Interface (CLI) is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.

- A. Interact with AWS services**
- B. Accessing OS that is not possible with AWS services
- C. To make only on-prem operations
- D. None of the above

### 2. What does the command `git branch` (without any options) do?

- A. Shows you a list of your local branches**
- B. Creates a new branch
- C. Renames a branch
- D. Shows you a list of your remote branches

### 3. \_\_\_\_\_ shows the count of the arguments passed to the script? (Shell)

- A. %\$
- B. \$\$
- C. \$#**
- D. %#

**4. Which command is find out how long the system has been running?**

- A. Continue
- B. Running
- C. Uptime
- D. Current

**5. Given a file find the count of lines containing word "ABC".**

- A. `grep c "ABC" file1`
- B. `grep -c "ABC" file1`
- C. `grep c "ABC" file1`
- D. `grep "ABC" file1`

## Interview/Certification Questions

20m

**1. A company is planning to migrate their existing on premise application to the AWS Cloud. The application currently runs on .Net and uses Microsoft SQL Server as the backend database. Your Company has some limitations as they don't have the developers currently to make recent changes to the code and also they don't have the Infrastructure team currently to manage the infrastructure on AWS. Which of the following data service would your Company choose on AWS for the best use?**

- A. AWS RDS
- B. AWS DynamoDB
- C. AWS Aurora
- D. AWS Redshift

This is also mentioned in the AWS Documentation

Amazon RDS supports using Transparent Data Encryption (TDE) to encrypt stored data on your DB instances running Microsoft SQL Server. TDE automatically encrypts data before it is written to storage, and automatically decrypts data when the data is read from storage.

To enable transparent data encryption for a DB instance that is running SQL Server, specify the TDE option in an Amazon RDS option group that is associated with that DB instance. All other options are incorrect since the developer wants to minimize code changes. So going onto a different database engine is not preferred

**2. Which of the following are benefits of the AWS's Relational Database Service (RDS)? Choose the 2 correct answers from the options below**

- A. Automated patches and backups
- B. DB owner can resize the capacity accordingly
- C. It allows you to store unstructured data
- D. It allows you to store NoSQL data

**3. Your team had developed an online feedback application for the best image competition in AWS using CloudFormation. The application accepts high-quality images of each participant and stores them in S3 then records the information about the image as well as the participant's profile in RDS. After the competition, the CloudFormation stack is not used anymore and to save resources, the stack should be terminated to save the cost. Your manager instructed you to back up the RDS database and the S3 bucket so the data can still be used even after the CloudFormation template is deleted. Which of the following options will fulfill this requirement?**

- A. Set the DeletionPolicy for the RDS instance to snapshot and then enable S3 bucket replication on the source bucket to a destination bucket to maintain a copy of all the S3 objects.**
- B. Set the DeletionPolicy to retain on both the RDS and S3 resource types on the CloudFormation template.
- C. Set the DeletionPolicy on the S3 bucket to snapshot
- D. Set the DeletionPolicy on the RDS resource to snapshot and set the S3 bucket to retain.

**4. A company wants to have a database hosted on AWS. As much as possible they want to have control over the database itself. Which of the following would be an ideal option for this.**

- A. Using the AWS DynamoDB service
- B. Using the AWS RDS service
- C. Hosting the database on an EC2 Instance**
- D. Using the Amazon Aurora service

**5. A database is being hosted using the Amazon RDS service. This database is to be made into a production database and is required to have high availability. Which of the following could be used to achieve this requirement?**

Multi-AZ

disasters

- A. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another region.**
- B. Use the Read Replica feature to create another instance of the DB in another region.
- C. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another Availability Zone.**
- D. Use the Read Replica feature to create another instance of the DB in another Availability Zone.

## Video of the Week

5m

- [AWS CloudFormation - Understanding Parameters and Outputs](#)

## 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

- [Coding Challenge: Create Phonebook Application](#)

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-002 : Milliseconds Converter Application \(Python Flask\) deployed on AWS Application Load Balancer with Auto Scaling Group using AWS Cloudformation](#)

## Closing

5m

-Next week's plan

-QA Session

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