

# STUDENT VERSION (Week-7)

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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

# Teamwork Schedule

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## Ice-breaking

10m

- Personal Questions (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 AWS storage service is designed as a native Multi-AZ file system for NFS file shares?

- A. Amazon EFS
- B. Amazon EBS
- C. Amazon S3
- D. Amazon FSx for Lustre

### 2. Which of the following statements are true of DynamoDB indexes? (Select THREE.)

- A. You can have a table without an index
- B. You can have more than one global secondary index in a table
- C. You can have more than one local secondary index in a table
- D. You can have more than one non-clustered index in a table
- E. You can have only one clustered index per table

### 3. What should you do to give access the application running on EC2 instance to a S3 bucket securely?

- A. Store your access key and secret access key on the Amazon EC2 instance.
- B. Attach an IAM role to the Amazon EC2 instance with a policy that grants it access to the bucket in Amazon S3.
- C. This kind of access is not possible.
- D. Attach Amazon S3 bucket policies to make the bucket public

**4. Which command is used for modifying a user's properties?**

- A. who am i
- B. sudo su
- C. usermod
- D. groupadd

**5. What is the default subnet mask for a Class B address?**

- A. 255.0.0.0
- B. 255.255.0.0
- C. 255.255.255.0
- D. 255.255.255.255

**Interview/Certification Questions****20m**

**1. A company is developing a chat application that will be deployed on AWS. The application stores the messages by using a key-value data model. Groups of users typically read the messages multiple times. A solutions architect must select a database solution that will scale for a high rate of reads and will deliver messages with microsecond latency.**

**Which database solution will meet these requirements?**

- A. Amazon Aurora with Aurora Replicas
- B. Amazon DynamoDB with DynamoDB Accelerator
- C. Amazon Aurora with Amazon ElastiCache for Memcached
- D. Amazon Neptune with Amazon ElastiCache for Memcached

**2. A reporting application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. For complex reports, the application can take up to 15 minutes to respond to a request. A solutions architect is concerned that users will receive HTTP 5xx errors if a report request is in process during a scale-in event.**

**What should the solutions architect do to ensure that user requests will be completed before instances are terminated?**

- A. Enable sticky sessions for the target group of instances.
- B. Increase the instance size in the Application Load Balancer target group.
- D. Increase the cooldown period for the Auto Scaling group to a greater amount of time than the time required for the longest running responses.
- E. Increase the deregistration delay timeout for the target group of the instances to greater than 900 seconds.

**3. A company needs to look up configuration details about how a Linux-based Amazon EC2 instance was launched.**

**Which command should a solutions architect run on the EC2 instance to gather the system metadata?**

- A. `curl http://169.254.169.254/latest/meta-data`
- B. `curl http://localhost/latest/meta-data`
- C. `curl http://254.169.254.169/latest/meta-data`
- D. `curl http://192.168.0.1/latest/meta-data`

**4. A company has strict data protection requirements. A solutions architect must configure security for a VPC to ensure that backend Amazon RDS DB instances cannot be accessed from the internet. The solutions architect must ensure that the DB instances are accessible from the application tier over a specified port only.**

**Which actions should the solutions architect take to meet these requirements? (Select TWO.)**

- A. Specify a DB subnet group that contains only private subnets for the DB instances.
- B. Attach an elastic network interface with a private IPv4 address to each DB instance.
- C. Configure AWS Shield with the VPC. Update the route tables for the subnets that the DB instances use.
- D. Configure an AWS Direct Connect connection on the database port between the application tier and the backend.
- E. Add an inbound rule to the database security group that allows requests from the security group of the application tier over the database port. Remove other inbound rules.

**5. A company is designing a disaster recovery (DR) architecture for an important application on AWS. The company has determined that the RTO is 5 minutes with a minimal instance capacity to support the application in the AWS DR site. The company needs to minimize costs for the DR architecture.**

**Which DR strategy will meet these requirements?**

- A. Warm standby
- B. Pilot light
- C. Multi-site active-active
- D. Backup and restore

## Video of the Week

5m

- [Amazon EFS file system creation, mounting & settings](#)

## Coding Challenge

5m

- [Coding Challenge: Check Consecutive Vowels](#)

## Case study/Project

10m

- Project-001 : Roman Numerals Converter Application (Python Flask) deployed on AWS EC2 with Cloudformation and AWS CLI

## 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

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