

# STUDENT VERSION (Week-7)

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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. Which command gives details of Git configuration?

- A. `git config --list`
- B. `git config --help`
- C. `git log --pretty=oneline`
- D. `git checkout`

### 2. What is AWS' serverless computing service?

- A. AWS Serverless
- B. AWS CloudFront
- C. AWS Lambda
- D. AWS API Gateway

### 3. Which of the following are NOT valid origins for Amazon CloudFront?

- A. Amazon S3 buckets
- B. EC2 instance
- C. AWS Lambda function
- D. Elastic Load Balancer (ELB)

An Amazon S3 bucket that is configured with static website hosting  
An Elastic Load Balancing load balancer  
An AWS Elemental MediaPackage origin  
An AWS Elemental MediaStore container  
Any other HTTP server, running on an Amazon EC2 instance or any other kind of host

### 4. Using API Gateway, you can create SOAP APIs.

- A. True
- B. False

**5. What will be the output of the following Python code?**

```
def writer():  
    title = 'Sir'  
    name = (lambda x:title + ' ' + x)  
    return name  
  
who = writer()  
print(who('Arthur'))
```

- A. Arthur Sir
- B. Sir Arthur**
- C. Arthur
- D. None of the mentioned

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

**1. You are planning on deploying a video based application onto the AWS Cloud. These videos will be accessed by users across the world. Which of the below services can help stream the content in an efficient manner to the users across the globe?**

- A. Amazon Route 53
  - B. Amazon Cloudtrail
  - C. Amazon CloudFront**
  - D. Amazon S3
- Speed up distribution of static and dynamic content, for example, .html, .css, .php, and graphics files.  
Distribute media files using HTTP or HTTPS.  
Add, update, or delete objects, and submit data from web forms.  
Use live streaming to stream an event in real time.  
You store your files in an origin - either an Amazon S3 bucket or a web server. After you create the distribution, you can add more origins to the distribution.

**2. Which of the following components of the Cloudfront service can be used to distribute contents to users across the globe?**

- A. Amazon VPC
- B. Amazon Regions
- C. Amazon Availability Zones
- D. Amazon Edge locations**

**3. 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

**4. Which of the following is the customer's responsibility with respect to the AWS Lambda service? (choose 2 options)**

- A. Lambda function code.
- B. Monitoring and logging lambda functions.
- C. Security patches.
- D. Installing required libraries in underlying compute instances for Lambda execution.
- E. Providing access to AWS resources that triggers a Lambda function.

**5. You have built a REST API using API gateway and distributed to your customers. However, your API is receiving large number of requests and overloading your backend system causing performance bottlenecks and eventually causing delays and failures in serving the requests for your important customers. How would you improve the API performance? (Choose 2 options)**

- A. Enable throttling and control the number of requests per second.
- B. Create a resource policy to allow access for specific customers during specific time period.
- C. Enable API caching to serve frequently requested data from API cache.
- D. Enable load balancer on your backend systems.

## Video of the Week

5m

- [Working with Amazon CloudFront](#)

## 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: Check Consecutive Vowels](#)

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 week 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

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