

# STUDENT VERSION (DevOps-Week-10)

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WAY TO REINVENT YOURSELF

## Meeting Agenda

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

# Teamwork Schedule

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## Ice-breaking

5m

- 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. Set a cronjob which is run every Friday at 2359?

- A. 59 23 \* \* \*
- B. 23 59 \* 5 \*
- C. 5 \* \* 23 59
- D. 59 23 \* \* 5

### 2. which of the following is not a type of trigger in Jenkins?

- A. cron
- B. pollSCM
- C. upstream
- D. downstream

### 3. Which of the following is a log integration system of Grafana?

- A. Prometheus
- B. Loki
- C. MySQL
- D. Graphite

**4. How does Prometheus collect its metrics?**

- A. By scraping HTTP endpoints based on pull mechanism**
- B. By using service discovery
- C. By adding custom code to set which metrics will be monitored
- D. Metrics are set through a YAML configuration file

**5. What are the default ports for Prometheus and Grafana?**

- A. Prometheus: **8080** Grafana: **3306**
- B. Prometheus: **9000** Grafana: **3030**
- C. Prometheus: 9090 Grafana: 3000**
- D. Prometheus: **3306** Grafana: **9090**

**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

**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 specic customers during specic time period.**

**C. Enable API caching to serve frequently requested data from API cache.**

**D. Enable load balancer on your backend systems.**

## Article of the Week

10m

- [How to migrate buckets or spaces from Amazon S3 to Google Cloud Platform with using rclone command?](#)

## Video of the Week

10m

- [GitHub Actions - Supercharge your GitHub Flow](#)

## 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

- There is no Coding Challenge for this week.

## Case study/Project

10m

- There is no project for this week.

## Closing

5m

-Next week's plan

-QA Session

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