STUDENT VERSION (Week-7)

TEAMWORK

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. Networking Hardware Address is referred with _____.

A. IP address
B. MAC address
C. NIC
D. Organizationally Unique Identifier

2. Encapsulation is the process of taking data from one protocol and translating it into another protocol, so the data can continue across a network.

A. True
B. False

3. What is the output?

```python
def calculate(numbers):
    result = 0
    for x in numbers:
        result += x
    return total
print(calculate((8, 2, 3, 0, 7)))
```

A. 10
B. 8
C. 0
D. 20

4. A media organization offers news in local languages around the world. Which Route 53 routing policy should be used to direct readers to the website with the correct language?

A. Latency

B. Geolocation

C. Multivalue answer

D. Weighted

5. You need to transfer files between two hosts. Which protocol can you use?

A. TCP

B. NFS

C. FTP

D. UDP

Interview/Certification Questions   20m

1. A company is planning to build a 2-tier architecture with a web server and a database server with separate environments for development and testing. The architecture will be hosted on EC2 Instances accordingly, and the database server would require more than 10,000 IOPS per volume. Which of the following EBS volumes are optimum for the underlying EC2 Instances? (Select Two)

A. General Purpose SSD for the web server

B. Provisioned IOPS for the web server

C. General Purpose SSD for the database server

D. Provisioned IOPS for the database server

2. A website is hosted on two EC2 instances that sit behind an Elastic Load Balancer. The response time of the website has been slowed down dramatically, and customers are placing fewer orders due to the wait time. Troubleshooting showed that one of the EC2 instances has failed and only one instance is running now. What is the best course of action to prevent this from happening in the future?

A. Change the instance size to the maximum available to compensate for the failure

B. Use CloudWatch to monitor the VPC Flow Logs for the VPC, where the instances are deployed in

C. Configure the ELB to perform health checks on the EC2 instances and implement auto-scaling

D. Replicate the existing configuration in several regions for failover

3. You are hosting a web server on an EC2 Instance. With the number of requests consuming a large part of the CPU, the response performance for the application is getting degraded. Which of the following would help to alleviate the problem and provide a better response time?

A. Place the EC2 Instance behind a Classic Load Balancer.
B. Place the EC2 Instance behind an Application Load Balancer.
C. Place the EC2 Instance in an Auto Scaling Group with the max size as 1.
D. Place a CloudFront distribution in front of the EC2 Instance.

4. You have an application developed in .NET. This applications works with the S3 buckets in a particular region. The application is hosted on an EC2 Instance.

Which of the following should ideally be used to ensure that the EC2 Instance has the appropriate access to the S3 buckets?

A. AWS Users
B. AWS Groups
C. AWS IAM Roles
D. AWS IAM Policies

5. A company is hosting a MySQL database in AWS using the AWS RDS service. To offload the reads, a Read Replica has been created and reports are run off the Read Replica database. But at certain times, the reports show stale data. What could be the possible reason behind this?

A. The Read Replica has not been created properly.
B. The backup of the original database has not been set properly.
C. This is due to the replication lag.
D. The Multi-AZ feature is not enabled.

Coding Challenge   10m

- Find the Non-Repeated Values

Video of the Week   5m

- Top 7 Cloud Infrastructure Interview Questions

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-104: Kittens Carousel Static Website deployed on AWS Cloudfront, S3 and Route 53 using Cloudformation

Closing   5m

-Next week's plan

-QA Session