STUDENT VERSION (Week-3)

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.

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. You are planning to serve a web application on the AWS Platform by using EC2 Instances. Which of the below principles would you adopt to ensure that even if some of the EC2 Instances crashes, you still have a working application?

A. Using a scalable system
B. Using an elastic system
C. Using a regional system
D. Using a fault tolerant system

2. The company you work for is considering migrating to AWS. They are concerned about cost and the initial investment needed. Which of the following features of AWS pricing helps lower the initial investment amount needed? Choose 3 answers from the options given below:

A. The ability to choose the lowest cost vendor
B. The ability to pay as you go
C. No upfront costs
D. Discounts for upfront payments

3. Which EC2 pricing model enables you to bid whatever price you want for instance capacity providing for even greater savings if your applications have flexible start and end times. If the instance is terminated by Amazon EC2, you will not be charged for a partial hour of usage. However, if you terminate the instance yourself, you will be charged for any hour in which the instance ran.

A. Spot
B. Dedicated host
C. On Demand
D. Reserved

4. Which IAM entity can you use to delegate access to your AWS resources to users, groups or services?

A. IAM User
B. IAM Role
C. IAM Web Identity Federation
D. IAM Policy

5. What is an Amazon Machine Image (AMI)?

A. Web service that provides resizable compute capacity in the cloud.
B. Template that provides the information required to launch an instance.
C. Reachable from the internet and is used for communication between your instances and the internet
D. Logical data centre in a Region.

Interview/Certification Questions   20m

1. You are the IT manager at a furniture retailer and they are considering moving their web application to AWS. They currently collocate their servers in a collocation facility and the contract for this facility is now coming to an end. Management are comfortable signing a 3 year contract and want to get the cheapest web servers as possible while still maintaining availability. Their traffic is very steady and predictable. What EC2 pricing model would you recommend to maintain availability and to get the lowest cost price available?

A. Spot Instances
B. Reserved Instances
C. On-Demand
D. Dedicated Instances

2. Which is the best way to enable your EC2 instance to read files in an S3 bucket?

A. Create a new IAM user and grant read access to S3. Store the user's credentials locally on the EC2 instance and configure your application to supply the credentials with each API request

B. Create a new IAM role and grant read-access to S3. Store the role's credentials locally on the EC2 instance and configure your application to supply the credentials with each API request

C. Configure a bucket policy which grants read-access based on the EC2 instance name

D. Create an IAM role with read-access to S3 and assign the role to the EC2 instance

3. Which of the following best describes Availability Zones?

A. Two zones containing compute resources that are designed to automatically maintain synchronized copies of each other's data.

B. A Content Distribution Network used to deliver content to users.

C. Distinct locations from within an AWS region that are engineered to be isolated from failures.

D. Restricted areas designed specifically for the creation of Virtual Private Clouds.

4. A new department has recently joined the organization and the administrator needs to compose access permissions for the group of users. Given that they have varying roles and access needs, what is the best-practice approach when granting access?

A. After gathering information on their access needs, the administrator should allow every user to access the most common resources and privileges on the system.

B. The administrator should grant all users the same permissions and then grant more upon request.

C. The administrator should grant all users the least privilege and add more privileges to only to those who need it.

D. Users should have no access and be granted temporary access on the occasions that they need to execute a task.

5. When would you use an Inline Policy over a Managed Policy?

A. When you want to manage the policy yourself

B. To add permissions that are only ever intended to be used for a single user in your account

C. To add IAM permissions that can be applied to multiple AWS accounts that you own

D. To add IAM permissions for common use cases like giving your DBAs full access to DynamoDB

Video of the Week   5m

- How to Create an IAM Group / Clarusway

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: Find the Largest Number

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-101: Kittens Carousel Static Website deployed on AWS EC2 using Cloudformation

Closing   5m

-Next week's plan

-QA Session

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