STUDENT VERSION (Week-6)

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

- 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. What is `$ top` **command used for in linux?**

A. to change the read, write, and execute permissions of files and directories
B. to display the running processes dynamically
C. to check your connectivity status to a server
D. to download files from the internet

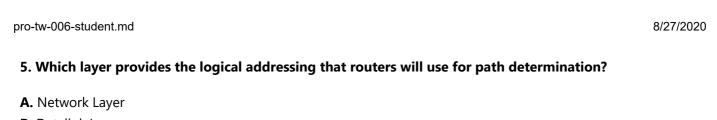**2. Which one of the following options are correct about python dictionaries?**

A. Dictionaries are mutable
B. Dictionaries are accessed by key
C. Dictionaries can be nested to any depth
D. All of the above

3. Which piece of hardware would reduce the size of a broadcast domain?

A. Hub
B. Router
C. Packet injector
D. Switch

4. What is the purpose of the OSI model?

A. Enable users to access the internet
B. Improve the network performance by compressing data
C. To provide a set of standards for manufacturers
D. Make network devices such as a router, switch, hub communicate with each other

5. Which layer provides the logical addressing that routers will use for path determination?

A. Network Layer
B. Datalink Layer
C. Transport Layer
D. Physical Layer

Interview/Certification Questions   20m

1. You have a requirement to host a static website following the best practices for a domain named mycompany.com in AWS.

How would you set up this? (SELECT TWO)

A. DHost the static site on an EC2 Instance.
B. Use Route53 with a static web site in S3.
C. Enter the DNS records from Route53 in the hosted zones..
D. Place the EC2 instance behind the ELB.

2. A company hosts 5 web servers in AWS. They want to ensure that Route53 can be used to route user traffic to random healthy web servers when they request for the underlying web application. Which routing policy should be used to fulfill this requirement?

A. Simple
B. Weighted
C. Multivalue Answer
D. Latency

3. Which of the following statements are FALSE when it comes to elasticity. Choose 2 answers from the options given below.

A. Diverting traffic to instances based on the demand
B. Diverting traffic to instances with the least load
C. Diverting traffic across multiple regions
D. Diverting traffic to instances with higher capacity

4. Your team has developed an application and now needs to deploy that application onto an EC2 Instance. This application interacts with a DynamoDB table. Which of the following is the correct and MOST SECURE way to ensure that the application interacts with the DynamoDB table?

A. Create a role which has the necessary permissions and can be assumed by the EC2 instance

B. Use the API credentials from an EC2 instance. Ensure the environment variables are updated with the API access keys.

C. Use the API credentials from a bastion host. Make the application on the EC2 Instance send requests via the bastion host.

D. Use the API credentials from a NAT Instance. Make the application on the EC2 Instance send requests via the NAT Instance

5. A consulting firm repeatedly builds large architectures for their customers using AWS resources from several AWS services including IAM, Amazon EC2, Amazon RDS, DynamoDB and Amazon VPC. The consultants have architecture diagrams for each of their architectures, and are frustrated that they cannot use them to automatically create their resources.

Which service should provide immediate benefits to the organization?

A. CAWS Beanstalk

B. AWS CloudFormation

C. AWS CloudFront

D. AWS CodeDeploy

Coding Challenge   10m

- Find the Most Frequent Letter

Video of the Week   5m

- What are Microservices?

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-003 : To-Do Web API (Python Flask) deployed on AWS EC2 and RDS using Cloudformation

Closing   5m

-Next week's plan

-QA Session