Final Quiz Question

2019年2月10日 星期日　　　下午2:10

> ✅ **Good job!**
>
> AWS has two main compute services, EC2 (server-based) and Lambda (serverless).

Question 1:

What is AWS's serverless compute service?

○ S3

⦿ Lambda

> ✅ **Good job!**
>
> Scaling is much faster and cost-effecting on the AWS cloud. With on-demand instances and auto-scaling, future growth does not have to be predicted. More compute capacity can be added gradually as demand increases.

Question 13:

Kunal is managing an application running on an on-premises data center. What best describes the challenges he faces that someone using the AWS cloud does not?

○ Kunal must research what size (compute capacity) servers he needs to run his application.

○ Kunal must know how to properly configure network level security.

● Kunal must predict future growth, and scaling can be costly and time consuming.

✓ **Good job!**

Identity and Access Management (IAM) is the AWS service where password policies and user credentials are managed. (Policy and Access Management as a service does not exist).

Question 14:

Thomas is managing the access rights and credentials for all the employees that have access to his company's AWS account. This morning, his was notified that some of these accounts may have been compromised, and he now needs to change the password policy and re-generate a new password for all users. What AWS service does Thomas need to use in order to accomplish this?

○ Access Management

○ Elastic Cloud Compute

○ Policy and Access Management

● None of the above.

✓ **Good job!**

Spot instances offer the cheapest option of all EC2's buying options. However, spot instances should only be used when there can be interruptions in the processing jobs being conducted. This is due to the fluctuation in spot pricing. If the spot price goes above your bid price, then you will lose access to the spot

instance (thus causing a stoppage in processing).

Question 17:

Matt is working on a projects that involves converting an images format from .png to .jpg. Thousands of images have to be converted; however, time is not really an issue and continual processing is not required. What type of EC2 buying option would be most cost-effective for Matt to use?

○ Spot

○ On-demand

○ Reserved

○ None of the above

✔ Good job!

An Elastic Load Balancer is responsible for evenly distributing incoming web traffic between all the EC2 instances associated with it. This help prevent one server from becoming overloaded with traffic, while another server remains underutilized.

Question 18:

What AWS feature acts as a traffic distribution regulator, making sure each EC2 instance in a system get the same amount of traffic?

○ Auto Scaling

○ ELB

ELB

Question 19:

The concept of elasticity is most closely associated with which of the following?

⚪ Network Security

🔵 Auto Scaling

⚪ Serverless Computing

⚪ Elastic Load Balancing

✅ **Good job!**

Elasticity is the concept that a system can easily (and cost-effectively) both increase in capacity based on-demand and also shrink in capacity based on-demand. Auto Scaling on AWS is specifically designed to (automatically) increase and decrease server capacity based on-demand.

Question 19:

The concept of elasticity is most closely associated with which of the following?

○ Network Security

● Auto Scaling

○ Serverless Computing

○ Elastic Load Balancing

✓ **Good job!**

The answer is to configure a CloudWatch alarm with an alarm threshold set to trigger when CPU utilization is greater than 70%. This will display the alarm in "alarm" state when CPU utilization is greater than 70%. This question has been worded very specifically with the works "goes above 70%". This disqualifies the answer that stated "great than or equal to 70%". The AWS exam will have very tricky questions like this.
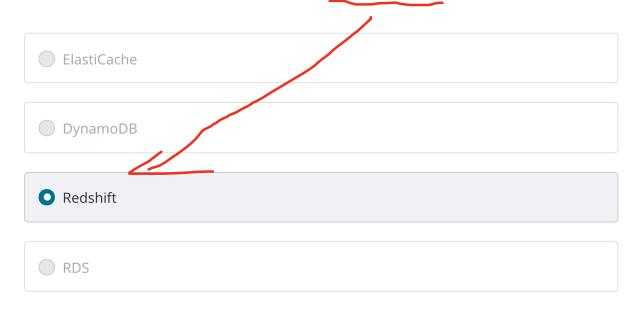
Question 21:

Stephen is having issues tracking how much compute capacity his application is using. Ideally, he wants to track and have alarms for when CPU utilization goes over 70%. What should Stephen do to accomplish this?

○ Configure an SNS topic with an alarm threshold set to trigger when CPU utilization is greater than 70%.

● Configure a CloudWatch alarm with an alarm threshold set to trigger when CPU utilization is greater than 70%.

✓ **Good job!**

Redshift is a database offering that is fully-managed and used for data warehousing and analytics, including compatibility with existing business intelligence tools.

Question 24:

What AWS database is primarily used to analyze data using standard SQL formatting with compatibility for your existing business intelligence tools?

○ ElastiCache

○ DynamoDB

● Redshift

○ RDS

✓ **Good job!**

EC2 instance have several different hard drive options. However, Elastic Block Store (EBS), which is a type of Network Attached Storage, is the most popular and widely used.

Question 29:

What is the most common type of storage used for EC2 instances?

● Elastic Block Store (EBS)

○ Magnetic Drive (MD)

○ Elastic File System (EFS)

○ EC2 Hard Drives

✓ **Good job!**

Infrequent access has the lowest availability rating (99.90%). Standard and Reduced Redundancy have an availability rating of 99.99%

Question 35:

Which S3 storage class has lowest object availability rating?

○ Standard

● Infrequent Access

○ Reduced Redundancy

○ All of them have the same availability rating

Question 38:

What is the term used to describe giving an AWS user only access to the exact services he/she needs to do the required job and nothing more?

○ The Least Privilege User Principal

The Principle of Least Privilege

The Only Access Principal.

None of the above

Question 39:

What best describes penetration testing?

Testing your applications ability to penetrate other applications.

Testing your own network/application for vulnerabilities.

Testing your IAM users access to AWS services.

None of the above.