

# Exam Questions CLF-C01

AWS Certified Cloud Practitioner

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#### NEW QUESTION 1

You have just set up a brand new AWS account. You want to keep monthly billing under \$100, but you are worried about going over that limit. What can you set up in order to be notified when the monthly bill approaches \$100?  
Choose the Correct Answer

- A. A CloudTrail billing alarm that triggers an SNS notification to your email address.
- B. A SNS billing alarm that triggers a CloudWatch notification to your email address.
- C. A CloudWatch billing alarm that triggers an SNS notification to your email address.
- D. A CloudWatch billing alarm that triggers a CloudTrail notification to your email address

**Answer: C**

#### Explanation:

In CloudWatch, you can set up a billing alarm that will trigger when your monthly bill hit the set threshold. That alarm can then be set up to trigger an SNS topic that will send you a notification that the alarm threshold has been met.

#### NEW QUESTION 2

What best describes the purpose of having many Availability Zones in each AWS region?  
Choose the Correct Answer

- A. Multiple Availability Zones allow for fault tolerance but not high availability.
- B. Multiple Availability Zones allow for cheaper prices due to competition between them.
- C. Multiple Availability Zones allow for duplicate and redundant compute, and data backups.
- D. None of the above

**Answer: C**

#### Explanation:

Availability Zones work together within a region to provide users with the ability to easily setup and configure redundant architecture and backup solutions

#### NEW QUESTION 3

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

- A. Auto Scaling
- B. Network Security
- C. Serverless Computing
- D. Elastic Load Balancing

**Answer: A**

#### Explanation:

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.

#### NEW QUESTION 4

What endpoints are possible to send messages to with Simple Notification Service? (Select all that apply)  
Choose the 3 Correct answers:

- A. SMS
- B. FTP
- C. SQS
- D. Lambda

**Answer: ACD**

#### NEW QUESTION 5

What does S3 stand for? Choose the Correct Answer

- A. Simple Storage Service
- B. Simplified Storage Service
- C. Simple Store Service
- D. Service for Simple Storage

**Answer: A**

#### NEW QUESTION 6

Big Cloud Jumbo Corp is beginning to explore migrating their entire on-premises data center to AWS. They are very concerned about how much it will cost once their entire I.T. infrastructure is running on AWS. What tool can you recommend so that they can estimate what the cost of using AWS may be?  
Choose the Correct Answer

- A. AWS Estimate Calculator
- B. AWS TCO Calculator
- C. AWS Cost Explorer

D. AWS Migration Cost Calculator

**Answer:** B

**Explanation:**

The AWS TCO (Total Cost of Ownership) Calculator is a free tool provided by AWS. It allows you to compare your current on-premises cost vs. estimated AWS cost.

**NEW QUESTION 7**

What AWS storage class should be used for long-term, archival storage?  
Choose the Correct Answer

- A. Glacier
- B. Long-Term
- C. Standard
- D. Infrequent Access

**Answer:** A

**Explanation:**

Glacier should be used for (and is specifically designed for) long-term , archival storage.

**NEW QUESTION 8**

What are the benefits of DynamoDB? (Select all that apply) Choose the 3 Correct answers:

- A. Supports multiple known NoSQL database engines like MariaDB and Oracle NoSQL.
- B. Automatic scaling of throughput capacity.
- C. Single-digit millisecond latency.
- D. Supports both document and key-value store data model

**Answer:** BCD

**Explanation:**

DynamoDB does not use/support other NoSQL database engines. You only have access to use DynamoDB's built-in engine.

**NEW QUESTION 9**

You are trying to organize and import (to AWS) gigabytes of data that are currently structured in JSON-like, name-value documents. What AWS service would best fit your needs?  
Choose the Correct Answer

- A. Lambda
- B. Aurora
- C. RDS
- D. DynamoDB

**Answer:** D

**Explanation:**

DynamoDB is AWS's NoSQL database offering. NoSQL databases are for non-structured data that are typically stored in JSON-like, name-value documents.

**NEW QUESTION 10**

What best describes what AWS is?  
Choose the Correct Answer

- A. AWS is an online retailer
- B. AWS is the cloud.
- C. AWS is a cloud services provider.
- D. None of the abov

**Answer:** C

**NEW QUESTION 10**

What is one benefit AND one drawback of buying a reserved EC2 instance? (Select two) Choose the 2 Correct answers:

- A. You can terminate the instance at any time without any further pricing commitment.
- B. Reserved instances can be purchased as a significant discount over on-demand instances.
- C. You can potentially save a lot of money by placing a lower "bid" price.
- D. You are locked in to either a one- or three-year pricing commitmen

**Answer:** BD

**Explanation:**

Reserved instances require a one- or three-year purchase term, so you are committing to paying for that much compute capacity for that full time period. However, in exchange for the long-term commitment, you will receive a discount (of up to 75%) over using an on-demand instance (for that same time period).

**NEW QUESTION 14**

What is AWS's serverless compute service?  
Choose the Correct Answer

- A. S3
- B. Lambda
- C. EC2
- D. None of the above

**Answer:** B

**Explanation:**

AWS has two main compute services, EC2 (server-based) and Lambda (serverless).

**NEW QUESTION 19**

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

- A. Elastic File System (EFS)
- B. EC2 Hard Drives
- C. Elastic Block Store (EBS)
- D. Magnetic Drive (MD)

**Answer:** C

**Explanation:**

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.

**NEW QUESTION 20**

Which of the following will effect price you pay for an EC2 instance? (Select all that apply) Choose the 3 Correct answers:

- A. Instance Type.
- B. Selected Storage Class
- C. How long you use the instance for.
- D. Amazon Machine Image (AMI).

**Answer:** ACD

**Explanation:**

EC2 instance pricing various depending on many variables. 1) The type of buying option 2) Selected Ami 3) Selected instance type 4) Region 5) Data in/out 6) Storage capacity

**NEW QUESTION 21**

What services has built-in DDoS mitigation and/or protection?  
Choose the Correct Answer

- A. EC2
- B. RDS
- C. SNS
- D. None of the above

**Answer:** D

**Explanation:**

AWS services with built-in DDoS migigation/protection include: 1) Route 53 2) CloudFront 3) WAF (web application firewall) 4) Elastic Load Balancing 5) VPCs and Security Groups

**NEW QUESTION 22**

What should you do if you believe your AWS account has been compromised? (Select all that apply) Choose the 4 Correct answers:

- A. Delete any resources in your account that you did not create.
- B. Respond to any notifications you received from AWS through the AWS Support Center.
- C. Change all IAM user's passwords.
- D. Delete or rotate all programatic (API) access key

**Answer:** ABCD

**Explanation:**

All these answers are actions you should take if you believe you account has been compromised.

**NEW QUESTION 26**

Under what circumstances would someone want to use ElastiCache? (Select all that apply) Choose the 2 Correct answers:

- A. They need a NoSQL database option
- B. They need to use Edge Locations to cache content
- C. The need improve improve the performance of their web application.
- D. They need in-memory data store servic

**Answer:** CD

**Explanation:**

ElastiCache is used as an in-memory data store or cache in the cloud. Benefits include improved performance for web applications (that rely on information stored in a database). Edge Locations are used for caching content with the CloudFront service, so that is not a answer here.

**NEW QUESTION 27**

Derek is running a web application and is noticing that he is paying for way more server capacity then is required. What AWS feature should Derek set up and configure to ensure that his application is automatically adding/removing server capacity to keep in line with the required demand?  
Choose the Correct Answer

- A. Auto Scaling
- B. Elastic Server Scaling
- C. Elastic Load Balancing
- D. Auto Sizing

**Answer:** A

**Explanation:**

Auto scaling is the feature that automated the process of adding/removing server capacity from a system (based on usage demand). Auto scaling creates a very cost effective system by never having too much or too little server capacity.

**NEW QUESTION 32**

Tracy has created a web application, placing it's underlining infrastructure in the N. Virginia (US-East-1) region. After several months, Tracy notices that much of the traffic coming to her website is coming from Japan. What can Tracy do to (best) help reduce latency for her users in Japan?  
Choose the Correct Answer

- A. Copy the current VPC and located in US-East-1 and ask AWS to move it to a region closest to Japan
- B. Create a and manage a complete duplicate copy of the web application and its infrastructure in a region closest to Japan.
- C. Create a CDN using CloudFront, making sure the proper content is cached at Edge Locations closest to Japan.
- D. Create a CDN using CloudCache, making sure the proper content is cached at Edge Locations closest to Japan.

**Answer:** C

**Explanation:**

CloudFront is AWS's content delivery network (CDN) service. You can use it to cache web content at edge locations what are closest to you customers. This will decrease latency for the customer and improve overall performance.

**NEW QUESTION 34**

What are the four primary benefits of using the cloud/AWS?  
Choose the Correct Answer

- A. Elasticity, scalability, easy access, limited storage.
- B. Fault tolerance, scalability, elasticity, and high availability.
- C. Unlimited storage, limited compute capacity, fault tolerance, and high availability.
- D. Fault tolerance, scalability, sometimes available, unlimited storage

**Answer:** B

**Explanation:**

Fault tolerance, scalability, elasticity, and high availability are the four primary benefits of AWS/the cloud.

**NEW QUESTION 35**

What best describes an AWS region?  
Choose the Correct Answer

- A. A specific location where an AWS data center is located.
- B. An isolated collection of AWS Availability Zones, of which there are many placed all around the world.
- C. The physical networking connections between Availability Zones.
- D. A collection of DNS server

**Answer:** B

**Explanation:**

An AWS region is an isolated geographical area that is is comprised of three or more AWS Availability Zones.

**NEW QUESTION 40**

What best describes a simplified definition of the "cloud"?  
Choose the Correct Answer

- A. All the computers in your local home network.
- B. A computer located somewhere else that you are utilizing in some capacity.
- C. An on-premis data center that your company owns.
- D. Your internet service provider

**Answer:** B

**Explanation:**

The simplest definition of the cloud is a computer that is located somewhere else that you are utilizing in some capacity. AWS is a cloud services provider, as the provide access to computers they own (located at AWS data centers), that you use for various purposes.

**NEW QUESTION 45**

What is the purpose of a DNS server?  
Choose the Correct Answer

- A. To serve web application content.
- B. To convert common language domain names to IP addresses.
- C. To convert IP addresses to common language domain names.
- D. To act as an internet search engin

**Answer:** B

**Explanation:**

Domain name system servers act as a "third party" that provides the service of converting common language domain names to IP addresses (which are required for a web browser to properly make a request for web content).

**NEW QUESTION 50**

What are the TWO main security layers (firewalls) used inside a VPC? Choose the 2 Correct answers:

- A. NetProtect
- B. Network Access Control List
- C. Security Group
- D. Security Lists

**Answer:** BC

**Explanation:**

Network Access Control Lists (NACL) act as a firewall on the subnet level, and Security Groups act as a firewall on the instance level.

**NEW QUESTION 51**

What is a main benefit of CloudFront?  
Choose the Correct Answer

- A. DNS management
- B. Unlimited storage
- C. Serverless compute capacity
- D. Built-in DDoS protection

**Answer:** D

**Explanation:**

CloudFront allows you to cache content at edge locations. When a request is made for that content, the request is sent to an edge location (not your applications hardware), so the edge locations will absorb any DDoS attack and protect your underlining hardware.

**NEW QUESTION 56**

What best describes the concept of a virtual private cloud?  
Choose the Correct Answer

- A. A private section of AWS in which you control what resources are placed inside.
- B. A collection of data centers.
- C. A shared section of AWS between you and other AWS account holders.
- D. A private section of AWS in which you control what resources are placed inside and who can access those resources.

**Answer:** D

**Explanation:**

A VPC is a private section of AWS in which you control what resources are placed inside and who can access those resources. A VPC defines your own private network that runs on AWS infrastructure.

**NEW QUESTION 59**

Children's All Saints Hospital has millions of old medical records that they must save for regulatory reasons. These records will most likely never be accessed again. What is the best and most costeffective S3 storage option that will meet the hospitals needs?  
Choose the Correct Answer

- A. Standard
- B. Infrequent Access
- C. Glacier
- D. Reduced Redundacy

**Answer:** C

**Explanation:**

Glacier is specifically designed for long-term archival storage. It is extremely inexpensive and should only be used for items that you access very infrequently.



#### NEW QUESTION 60

Kunal is logged into his company's AWS account. He tries to access EC2 but is getting an error. What is the most likely reason why he cannot access EC2? Choose the Correct Answer

- A. There is not an IAM access policy attached to his IAM user.
- B. He is not part of an IAM Group.
- C. He does not have multi-factor authentication (MFA) enabled.
- D. There is not an IAM access policy attached to his IAM rol

**Answer:** A

#### Explanation:

When an IAM user is created, that user has NO access to any AWS services. To gain access to an AWS server, an IAM user must have permission granted to them. This is done by attached an IAM access policy to their IAM user (or through an attached group). However, just being in a group does not grant access. A proper policy would need to be attached to that group.

#### NEW QUESTION 64

Donna needs to provision a Linux server to run a web application on. What AWS service should she use to create the Linux server? Choose the Correct Answer

- A. VPC
- B. Lambda
- C. IAM
- D. EC2

**Answer:** D

#### Explanation:

Elastic Cloud Compute (EC2) is AWS server-based compute service platform. You can use it to provision and use Linux- and Windows-based servers.

#### NEW QUESTION 66

What AWS database service is used for data warehousing of petabytes of data? Choose the Correct Answer

- A. RDS
- B. ElastiCache
- C. Redshift
- D. DynamoDB

**Answer:** C

#### Explanation:

Redshift is a fully-managed data warehouse that is perfect for storing petabytes worth of data.

#### NEW QUESTION 70

What are two open source in-memory engines supported by ElastiCache? Choose the 2 Correct answers:

- A. Redis
- B. Aurora
- C. Cachelt
- D. Memcached

**Answer:** AD

#### NEW QUESTION 72

Which AWS service uses a combination of publishers and subscribers? Choose the Correct Answer

- A. SNS
- B. RDS
- C. EC2
- D. Lambda

**Answer:** A

#### Explanation:

In SNS, there are two types of clients: publishers and subscribers. Publishers send the message, and subscribers receive the message.

#### NEW QUESTION 75

What term best describes the AWS pricing model? Choose the Correct Answer

- A. Pay-all-up-front
- B. Pay-as-you-go
- C. Pay-all-at-end
- D. None of the above

**Answer:** B

**Explanation:**

AWS operates on a pay-as-you-go model. No upfront cost or termination fees.

**NEW QUESTION 76**

What best describes the difference between the TCO Calculator and the Cost Explorer?

Choose the Correct Answer

- A. The TCO Calculator help you analyze current AWS usage charges; the Cost Explorer helps you estimate the cost savings of using AWS.
- B. The TCO Calculator helps you estimate the cost savings of using AWS; the Cost Explorer help you analyze current AWS usage charges.
- C. The Cost Explorer helps you calculate hourly EC2 Usage cost; the TCO Calculator is a price list for each AWS service.
- D. The Cost Explorer is a price list for each AWS service; the TCO Calculator helps you calculate hourly EC2 Usage cost.

**Answer:** B

**Explanation:**

The TCO calculator is a free tool provided by AWS that allows you to estimate the cost savings of using AWS vs. using an on-premises data center. The Cost Explorer is a free tool that allows you to view charges of your cost (helps you analyze where you are spending money).

**NEW QUESTION 79**

What categories fall under those analyzed by the AWS Trusted Advisor program? (Select all that apply)

Choose the 2 Correct answers:

- A. Fault tolerance
- B. Scalability
- C. Cost optimization
- D. None of the above

**Answer:** AC

**Explanation:**

The AWS Trusted Advisor program will analyze your account with check in the following categories: Cost Optimization Performance Security Fault Tolerance

**NEW QUESTION 83**

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