

Exam Questions CLF-C01

AWS Certified Cloud Practitioner

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NEW QUESTION 1

What are the main benefits of On-Demand EC2 instances? (Select all that apply) Choose the 2 Correct answers:

- A. They are the cheapest buying option.
- B. They are the most flexible buying option.
- C. They require 1-2 days for setup and configuration.
- D. Create, start, stop, and terminate at any time

Answer: BD

Explanation:

On-demand EC2 instances are widely used due to their flexibility. You can create, start, stop, and terminate at any time (with no startup or termination fees). Although due to this flexibility, they are the most expensive buying option.

NEW QUESTION 2

How much data can you store in S3?
Choose the Correct Answer

- A. Storage capacity is virtually unlimited.
- B. You can store up to 1 petabyte of data.
- C. Each account is given 50 gigabytes of storage capacity and no more can be used.
- D. You can store up to 1 petabyte of data, then you are required to pay an additional fee

Answer: A

Explanation:

Although there is theoretically a capacity limit, as an S3 user, there is no limit on the amount of data you can store in S3.

NEW QUESTION 3

What TWO services/features are required to have highly available and fault tolerant architecture in AWS?
Choose the 2 Correct answers:

- A. Elastic Load Balancer
- B. CloudFront
- C. ElastiCache
- D. Auto Scaling

Answer: AD

NEW QUESTION 4

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 5

Which of the following will effect how much you are charged for storing objects in S3? Choose the 2 Correct answers:

- A. The storage class used for the objects stored.
- B. Encrypting data (objects) stored in S3.
- C. Creating and deleting S3 buckets
- D. The total size in gigabytes of all objects stored

Answer: AD

NEW QUESTION 6

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 7

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?

Choose the Correct Answer

- A. Kunal must research what size (compute capacity) servers he needs to run his application.
- B. Kunal must know how to properly configure network level security.
- C. Kunal must predict future growth, and scaling can be costly and time consuming.
- D. None of the above

Answer: C

Explanation:

Scaling is much faster and cost-effective on the AWS cloud. With on-demand instances and autoscaling, future growth does not have to be predicted. More compute capacity can be added gradually as demand increases.

NEW QUESTION 8

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 9

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 10

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?

Choose the Correct Answer

- A. Configure an SNS topic with an alarm threshold set to trigger when CPU utilization is greater than 70%.
- B. Configure a CloudWatch alarm with an alarm threshold set to trigger when CPU utilization is greater than 70%.
- C. Configure a CloudWatch alarm with an alarm threshold set to trigger when CPU utilization is greater than or equal to 70%.
- D. None of the above

Answer: B

Explanation:

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 words "goes above 70%". This disqualifies the answer that stated "greater than or equal to 70%". The AWS exam will have very tricky questions like this.

NEW QUESTION 10

If you want to easily share a file with a friend, family or coworker, what AWS solution should you use?

Choose the Correct Answer

- A. Mail them a flash drive with the file on it.
- B. Create an EC2 instance and give provide login credentials so others can access the file.
- C. Upload the object to S3 and share it via its object's S3 public object URL.
- D. None of the above

Answer: C

Explanation:

You can easily share objects uploaded into S3 by providing others with the object's URL.

NEW QUESTION 14

You have been tasked by your department head to upload a batch of files to an S3 bucket; however, when you select S3 on the AWS console, you see a notification stating that you do not have permission to access S3. What is the most probable cause of this error?
Choose the Correct Answer

- A. It takes 24 hours to get access to S3.
- B. The S3 service is currently down for maintenance.
- C. You do not have an S3 access policy attached to your IAM user.
- D. Your boss has not enabled proper bucket permission

Answer: C

Explanation:

If you get an error stating that you do not have proper permissions to access/use and AWS service, then most likely your IAM user does not have the proper permission policy attached.

NEW QUESTION 16

If you have a set of frequently accessed files that are used on a daily basis, what S3 storage class should you store them in?
Choose the Correct Answer

- A. Infrequent Access
- B. Reduced Redundancy
- C. Standard
- D. Fast Access

Answer: C

Explanation:

The Standard storage class should be used for files that you access on a daily or very frequent basis.

NEW QUESTION 19

You notice that five of your 10 S3 buckets are no longer available in your account, and you assume that they have been deleted. You are unsure who may have deleted them, and no one is taking responsibility. What should you do to investigate and find out who deleted the S3 buckets?
Choose the Correct Answer

- A. Look at the S3 logs.
- B. Look at the CloudTrail logs.
- C. Look at the CloudWatch Logs.
- D. Look at the SNS log

Answer: B

Explanation:

CloudTrail is logging service that logs actions taken by AWS users in your AWS account, such as creating/deleting S3 buckets, starting/stopping EC2 instances, etc.

NEW QUESTION 21

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 programmatic (API) access keys

Answer: ABCD

Explanation:

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

NEW QUESTION 24

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. They need to improve the performance of their web application.
- D. They need an in-memory data store service

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 an answer here.

NEW QUESTION 28

What AWS service uses Edge Locations for content caching?
Choose the Correct Answer

- A. ElastiCache
- B. Route 53

- C. CloudFront
- D. CloudCache

Answer: C

Explanation:

CloudFront is a content caching service provided by AWS that utilizes "Edge Locations," which are AWS data centers located all around the world.

NEW QUESTION 33

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?

Choose the Correct Answer

- A. Spot
- B. On-demand
- C. Reserved
- D. None of the above

Answer: A

Explanation:

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).

NEW QUESTION 34

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

Choose the Correct Answer

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

Answer: C

Explanation:

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

NEW QUESTION 38

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 40

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 41

What best describes the concept of elasticity?

Choose the Correct Answer

- A. The ability for a system to grow in size, capacity, and/or scope.
- B. The ability for a system to withstand a certain amount of failure and still remain functional.
- C. The ability for a system to grow and shrink based on demand.

D. The ability for a system be accessible when you attempt to access i

Answer: C

Explanation:

Elasticity (think of a rubber band) defines a system that can easily (and cost-effectively) grow and shrink based on required demand.

NEW QUESTION 45

Karen is building a website that is expected to have a minimum of 1000 users continually over the course of 24 hours. For 8 hours each day, traffic is expected to be at about 1800 users. What EC2 buying options should she use to handle all the traffic and be most cost-effective?

Choose the Correct Answer

- A. Karen should rely solely on spot instances since that will be the cheapest option.
- B. Karen should buy enough reserved instance capacity to handle all 1800 users and probably buy a little more capacity just in case it is needed.
- C. Karen should buy reserved instances with enough capacity to cover the baseline of 1000 users, then rely on on-demand instances for the 8 hour period of increased traffic each day.
- D. Karen should buy reserved instances with enough capacity to cover the baseline of 1000 users, then rely on spot instances for the 8 hour period of increased traffic each day.

Answer: C

Explanation:

Reserved instances should be used to handle the expected baseline traffic to the website. Reserved instances (in 1/3 year term) can be purchased as a significant discount over on-demand instances. Any varying traffic above the baseline should be handled with on-demand instances (since they can be added/removed at any time, based on current demand). Spot instances should not be used in this scenario.

NEW QUESTION 50

Amit is running a web application with a capacity of 5000 users. Every few days, traffic reaches 5000 users and any additional users are being denied access. What can Amit do to efficiently automate the process of adding and removing server capacity based on traffic demand?

Choose the Correct Answer

- A. Enable elastic load balancing on his application.
- B. Automating this process cannot be done
- C. Enable auto scaling on his application.
- D. Write a custom script to automate the process

Answer: C

Explanation:

Auto scaling in AWS allows you to configure metric-based rules that (when triggered) will add and/or remove instances (server capacity) to your application. Adding/moving instances is then automated based on the metric rules you configure.

NEW QUESTION 51

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 56

John, member of your company's development team, needs access to company's AWS account. What AWS service is used to manage such access?

Choose the Correct Answer

- A. S3
- B. Route 53
- C. IAM
- D. EC2

Answer: C

Explanation:

Identity & Access Management (IAM) is the AWS service where user accounts, credentials, and service access is managed.

NEW QUESTION 61

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 62

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 64

If you have a large collection of reproducible objects, which S3 storage class should you use if low cost is your priority?
Choose the Correct Answer

- A. Glacier
- B. Standard
- C. Reduced Redundancy
- D. None of the above

Answer: C

Explanation:

The reduced redundancy storage class has the lowest durability of all the storage classes. This means object stored in this storage class have the highest probability of being lost. So you should only store objects in this storage class if they can be easily reproduced. In exchange for the lower durability, the cost is lower than the standard storage class.

NEW QUESTION 65

An Edge Location is a specialized AWS data center that works in conjunction with what AWS service?
Choose the Correct Answer

- A. Route 53
- B. CloudWatch
- C. Lambda
- D. CloudFront

Answer: D

Explanation:

CloudFront is comprised of a network of Edge Locations (which is where content is cached).

NEW QUESTION 66

Jacky is creating a website using AWS infrastructure. She has a great idea for a domain name but needs to see if it's available and, if so, register it. What AWS service will allow her to do this?
Choose the Correct Answer

- A. CloudFront
- B. DomainServices
- C. CloudWatch
- D. Route 53

Answer: D

Explanation:

Route 53 is AWS's domain and DNS management service. (DomainServices does not exist).

NEW QUESTION 71

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 73

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 76

What is the name of AWS's RDS SQL database engine?
Choose the Correct Answer

- A. Lightsail
- B. SNS
- C. MySQL
- D. Aurora

Answer: D

Explanation:

AWS created their own custom SQL database engine, which is called Aurora.

NEW QUESTION 77

What is the major difference between AWS's RDS and DynamoDB database services?
Choose the Correct Answer

- A. RDS offers NoSQL database options, and DynamoDB offers SQL database options.
- B. RDS offers on SQL database option, and DynamoDB offers many NoSQL database options.
- C. RDS offers SQL database options, and DynamoDB offers a NoSQL database option.
- D. None of the above

Answer: C

Explanation:

RDS is a SQL database service (that offers several database engine options), and DynamoDB is a NoSQL database option that only offers one NoSQL engine.

NEW QUESTION 82

Under what circumstances would you choose to use the AWS service CloudTrail?
Choose the Correct Answer

- A. When you want to collect and view resource metrics.
- B. When you want to log what actions various IAM users are taking in your AWS account.
- C. When you want a serverless compute platform.
- D. When you want to send SMS notifications based on events that occur in your account

Answer: B

Explanation:

CloudTrail is AWS's logging service used to log actions taken by users in your AWS account.

NEW QUESTION 85

What SQL database engine options are available in RDS? (Select all that apply) Choose the 3 Correct answers:

- A. MariaDB
- B. PostgreSQL
- C. MongoDB
- D. MySQL

Answer: ABD

Explanation:

RDS offers the following SQL options: Aurora MySQL MariaDB PostgreSQL Oracle Microsoft SQLServer

NEW QUESTION 90

If you want to learn about AWS architectural or security best practices, where will you find that type of information?
Choose the Correct Answer

- A. AWS Yellow Pages
- B. AWS Console Info Section
- C. AWS White Papers
- D. AWS Service Documentation

Answer: C

Explanation:

White papers are a collection of technical documents that outlines many AWS relevant topics.

NEW QUESTION 95

Consolidated billing is managed through what AWS service?
Choose the Correct Answer

- A. AWS TCO
- B. AWS Billing Manager
- C. AWS Consolidated Management
- D. AWS Organizations

Answer: D

Explanation:

AWS Organizations is where you can manage multiple AWS accounts in one place (including it's billing features, such as consolidated billing).

NEW QUESTION 99

Which of the following are AWS Support Plans? (Select all that apply) Choose the 3 Correct answers:

- A. Enterprise
- B. Expert
- C. Basic
- D. Business

Answer: ACD

Explanation:

AWS has four support plan levels: Basic Developer Business Enterprise

NEW QUESTION 101

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 103

What does TCO stand for?
Choose the Correct Answer

- A. Tally of Cost Ownership
- B. Total Continual Ownership
- C. The Cost of Ownership
- D. None of the above

Answer: D

Explanation:

TCO stand for Total Cost of Ownership.

NEW QUESTION 104

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