

Free Questions for CLF-C02

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Question 1

Question Type: MultipleChoice

A company wants an AWS service to collect and process 10 TB of data locally and transfer the data to AWS. The company has intermittent connectivity.

Which AWS service will meet these requirements?

Options:

A- AWS Database Migration Service (AWS DMS)

B- AWS DataSync

C- AWS Backup

D- AWS Snowball Edge

Answer:

D

Explanation:

The correct answer is D. AWS Snowball Edge.

AWS Snowball Edge is a physical device that can be used to collect and process data locally and then transfer it to AWS. It is designed for situations where there is limited or intermittent network connectivity, or where bandwidth costs are high. AWS Snowball Edge can store up to 80 TB of data and has compute and storage capabilities to run applications on the device¹.

AWS Database Migration Service (AWS DMS) is a service that helps migrate databases to AWS. It does not collect or process data locally, nor does it work offline².

AWS DataSync is a service that helps transfer data between on-premises storage systems and AWS storage services. It does not collect or process data locally, and it requires a network connection to work³.

AWS Backup is a service that helps automate and manage backups across AWS services. It does not collect or process data locally, nor does it transfer data to AWS. It only backs up data that is already in AWS⁴.

References:

Question 2

Question Type: MultipleChoice

A company wants to run its application on Amazon EC2 instances. The company needs to keep the application on-premises to meet a compliance requirement. Which AWS offering will meet these requirements?

Options:

- A- Dedicated Instances
- B- Amazon CloudFront
- C- AWS Fargate
- D- AWS Outposts

Answer:

D

Explanation:

AWS Outposts is an AWS offering that brings AWS infrastructure and services to a customer's on-premises location. It allows companies to run AWS services locally while meeting any regulatory or compliance requirements to keep data or applications on-premises.

Dedicated Instances are EC2 instances that run on hardware dedicated to a single customer but are still within AWS data centers.

Amazon CloudFront is a CDN service, and AWS Fargate is a serverless compute engine for containers, neither of which meets the requirement for running an application on-premises. References:

[AWS Outposts](#)

Question 3

Question Type: MultipleChoice

A company is planning to migrate applications to the AWS Cloud. During a system audit, the company finds that its content management system (CMS) application is incompatible with cloud environments.

Which migration strategies will help the company to migrate the CMS application with the LEAST effort? (Select TWO.)

Options:

- A- Retire
- B- Rehost
- C- Repurchase
- D- Replatform
- E- Refactor

Answer:

B, C

Explanation:

Rehosting ('lift and shift') is a migration strategy where applications are moved to the cloud with minimal changes, making it the least effort-intensive method for applications incompatible with the cloud. Repurchasing involves moving to a different product, often a SaaS solution, which can also minimize migration effort by avoiding the need for application-level changes. Retiring, replatforming, and refactoring require significant effort either in terms of analyzing and shutting down the application, making changes to the underlying platform, or redesigning the application architecture, respectively. References:

[AWS Migration Strategies](#)

Question 4

Question Type: MultipleChoice

Under the AWS shared responsibility model, which of the following is a responsibility of the customer?

Options:

- A- Shred disk drives before they leave a data center.
- B- Prevent customers from gathering packets or collecting traffic at the hypervisor level.
- C- Patch the guest operating system with the latest security patches.

D- Maintain security systems that provide physical monitoring of data centers.

Answer:

C

Explanation:

Under the AWS shared responsibility model, AWS is responsible for the security 'of' the cloud, which includes the physical infrastructure, networking, and hypervisor layer. The customer, however, is responsible for security 'in' the cloud, which includes managing the security of their data, patching and maintaining their guest operating system and applications, and managing identity and access. The responsibilities of shredding disk drives, preventing packet capture at the hypervisor level, and physical monitoring are handled by AWS as part of its responsibility for security 'of' the cloud.

Question 5

Question Type: MultipleChoice

A company is building a new application on AWS. The company needs the application to remain available if an individual application component fails.

Which design principle should the company use to meet this requirement?

Options:

- A- Disposable resources
- B- Automation
- C- Rightsizing
- D- Loose coupling

Answer:

D

Explanation:

Loose coupling is a design principle that involves reducing dependencies between application components so that they can operate independently. This approach ensures that the failure of one component does not affect the availability of the others, thereby improving the application's fault tolerance and resilience. Disposable resources, automation, and rightsizing are valuable principles in cloud architecture, but they do not directly address the requirement of remaining available despite the failure of an individual component like loose coupling does. References:

[AWS Well-Architected Framework - Design Principles](#)

Question 6

Question Type: MultipleChoice

A company stores data in an Amazon S3 bucket.

Which task is the responsibility of AWS?

Options:

- A- Configure an S3 Lifecycle policy.
- B- Activate S3 Versioning.
- C- Configure S3 bucket policies.
- D- Protect the infrastructure that supports S3 storage.

Answer:

D

Explanation:

According to the AWS Shared Responsibility Model, AWS is responsible for protecting the infrastructure that runs all of the services offered in the AWS Cloud, including Amazon S3. This infrastructure includes hardware, software, networking, and facilities that run AWS services.

A . Configure an S3 Lifecycle policy: Incorrect, as configuring S3 Lifecycle policies to manage object lifecycle (e.g., transitioning objects to different storage classes or deleting them after a certain period) is the customer's responsibility.

B . Activate S3 Versioning: Incorrect, as enabling S3 Versioning is a customer responsibility for managing data protection.

C . Configure S3 bucket policies: Incorrect, as setting and managing S3 bucket policies to control access is the customer's responsibility.

AWS Cloud References:

[AWS Shared Responsibility Model](#)

[Amazon S3](#)

Question 7

Question Type: MultipleChoice

Which AWS Cloud design principle is a company using when the company implements AWS CloudTrail?

Options:

- A- Activate traceability.
- B- Use serverless compute architectures.
- C- Perform operations as code.
- D- Go global in minutes.

Answer:

A

Explanation:

By implementing AWS CloudTrail, a company is adhering to the AWS Cloud design principle of activating traceability. AWS CloudTrail provides detailed logs of all API calls made in an AWS account, which helps monitor, troubleshoot, and detect unusual activity, thereby improving security and compliance. This supports the principle of 'activating traceability' by enabling continuous monitoring and auditing of all actions and changes within the AWS environment.

B . Use serverless compute architectures: Incorrect, as this principle encourages the use of managed services that handle infrastructure, such as AWS Lambda, and is not directly related to CloudTrail.

C . Perform operations as code: Incorrect, as this principle emphasizes the use of code and automation for infrastructure management.

D . Go global in minutes: Incorrect, as this principle relates to the global deployment of applications and services.

AWS Cloud References:

[AWS Well-Architected Framework](#)

[AWS CloudTrail](#)

Question 8

Question Type: MultipleChoice

Which programming languages does AWS Cloud Development Kit (AWS CDK) currently support? (Select TWO.)

Options:

A- Python

B- Swift

C- TypeScript

D- Ruby

E- PHP

Answer:

A, C

Explanation:

The AWS Cloud Development Kit (AWS CDK) currently supports multiple programming languages, including Python and TypeScript. These languages allow developers to define cloud infrastructure using familiar programming constructs. Python and TypeScript are among the first languages supported by AWS CDK, which also supports Java, C#, and JavaScript. This enables developers to use their existing programming skills and tools to define cloud infrastructure in code.

B . Swift: Incorrect, as Swift is not currently supported by AWS CDK.

D . Ruby: Incorrect, as Ruby is not currently supported by AWS CDK.

E . PHP: Incorrect, as PHP is not currently supported by AWS CDK.

AWS Cloud References:

[AWS Cloud Development Kit \(AWS CDK\)](#)

Question 9

Question Type: MultipleChoice

To assist companies with Payment Card Industry Data Security Standard (PCI DSS) compliance in the cloud. AWS provides:

Options:

- A- physical inspections of data centers by appointment.
- B- required PCI compliance certifications for any application running on AWS.
- C- an AWS Attestation of Compliance (AOC) report for specific AWS services.
- D- professional PCI compliance services.

Answer:

C

Explanation:

AWS provides an Attestation of Compliance (AOC) report for specific AWS services to assist companies in achieving Payment Card Industry Data Security Standard (PCI DSS) compliance in the cloud. This report demonstrates that AWS services meet the necessary PCI DSS requirements. AWS does not offer physical inspections of data centers by appointment, nor does it provide certifications for any application running on AWS. Additionally, AWS does not provide professional PCI compliance services; companies must manage their PCI compliance in their environment.

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