



Free Amazon CLF-C02 Practice Questions

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Question 1

Question Type: MultipleChoice

A company has a single Amazon EC2 instance. The company wants to adopt a highly available architecture.

What can the company do to meet this requirement?

Options:

- A- Scale vertically to a larger EC2 instance size.
- B- Scale horizontally across multiple Availability Zones.
- C- Purchase an EC2 Dedicated Instance.
- D- Change the EC2 instance family to a compute optimized instance.

Answer:

B

Explanation:

Scaling horizontally across multiple Availability Zones is a way to adopt a highly available architecture, as it increases the fault tolerance and resilience of the application. Scaling vertically to a larger EC2 instance size is a way to improve the performance of the application, but it does not improve the availability. Purchasing an EC2 Dedicated Instance is a way to isolate the instance from other AWS customers, but it does not improve the availability. Changing the EC2 instance family to a compute optimized instance is a way to optimize the instance type for the workload, but it does not improve the availability. These concepts are explained in the AWS Well-Architected Framework².

Question 2

Question Type: MultipleChoice

A company is developing an application that uses multiple AWS services. The application needs to use

temporary, limited-privilege credentials for authentication with other AWS APIs.

Which AWS service or feature should the company use to meet these authentication requirements?

Options:

- A- Amazon API Gateway
- B- IAM users
- C- AWS Security Token Service (AWS STS)
- D- IAM instance profiles

Answer:

C

Explanation:

AWS Security Token Service (AWS STS) is a service that enables applications to request temporary, limited-privilege credentials for authentication with other AWS APIs. AWS STS can be used to grant access to AWS resources to users who are federated (using IAM roles), switched (using IAM users), or cross-account (using IAM roles). AWS STS can also be used to assume a role within the same account or a different account. The credentials issued by AWS STS are short-term and have a limited scope, which can enhance the security and compliance of the application. AWS STS Overview AWS Certified Cloud Practitioner - aws.amazon.com

Question 3

Question Type: MultipleChoice

Which options are AWS Cloud Adoption Framework (AWS CAF) people perspective capabilities? (Select TWO.)

Options:

- A- Organizational alignment
- B- Portfolio management
- C- Organization design
- D- Risk management
- E- Modern application development

Answer:

A, C

Explanation:

The AWS Cloud Adoption Framework (AWS CAF) people perspective capabilities are the organizational skills and processes that enable effective cloud adoption. According to the AWS CAF people perspective whitepaper¹, there are seven capabilities in this perspective, two of which are:

Organizational alignment: This capability helps you align your organizational structure, roles, and responsibilities to support your cloud transformation goals and objectives. It involves assessing your current and desired state of alignment, identifying gaps and misalignments, and designing and implementing changes to optimize your cloud performance¹.

Organization design: This capability helps you design and evolve your organization to enable agility, innovation, and collaboration in the cloud. It involves defining your cloud operating model, identifying the skills and competencies needed for cloud roles, and creating career paths and development plans for your cloud workforce¹.

The other options are not capabilities in the AWS CAF people perspective. Portfolio management, risk management, and modern application development are capabilities in the AWS CAF business perspective, governance perspective, and platform perspective respectively².

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1: AWS Cloud Adoption Framework: People Perspective - AWS Cloud Adoption Framework: People Perspective

2: AWS Cloud Adoption Framework - AWS Cloud Adoption Framework

Question 4

Question Type: MultipleChoice

A company has a MariaDB database on premises. The company wants to move the data to the AWS Cloud. Which AWS service will host this database with the LEAST amount of operational overhead?

Options:

- A- Amazon RDS
- B- Amazon Neptune
- C- Amazon S3
- D- Amazon DynamoDB

Answer:

A

Explanation:

Amazon RDS provides a managed database service that supports MariaDB with minimal operational overhead. It handles routine database tasks such as backups, patching, and scaling, reducing the burden on users. Amazon Neptune and DynamoDB are not compatible with MariaDB, and Amazon S3 is not a relational database service.

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Question 5

Question Type: MultipleChoice

An IT engineer needs to access AWS services from an on-premises application.

Which credentials or keys does the application need for authentication?

Options:

- A- AWS account user name and password
- B- IAM access key and secret
- C- Amazon EC2 key pairs
- D- AWS Key Management Service (AWS KMS) keys

Answer:

B

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Explanation:

IAM access keys are long-term credentials that consist of an access key ID and a secret access key. You use access keys to sign programmatic requests that you make to AWS. If you need to access AWS services from an on-premises application, you can use IAM access keys to authenticate your requests. AWS account user name and password are used to sign in to the AWS Management Console. Amazon EC2 key pairs are used to connect to your EC2 instances using SSH. AWS Key Management Service (AWS KMS) keys are used to encrypt and decrypt your data using the AWS Encryption SDK or the AWS CLI.

Question 6

Question Type: MultipleChoice

A company wants to create multiple isolated networks in the same AWS account.

Which AWS service or component will provide this functionality?

Options:

- A- AWS Transit Gateway
- B- Internet gateway
- C- Amazon VPC
- D- Amazon EC2

Answer:

C

Explanation:

Amazon Virtual Private Cloud (Amazon VPC) is the AWS service that allows customers to create multiple isolated networks in the same AWS account. A VPC is a logically isolated section of the AWS Cloud where customers can launch AWS resources in a virtual network that they define. Customers can create multiple VPCs within an AWS account, each with its own IP address range, subnets, route tables, security groups, network access control lists, gateways, and other components. AWS Transit Gateway, Internet gateway, and Amazon EC2 are not services or components that provide the functionality of creating multiple isolated networks in the same AWS account. AWS Transit Gateway is a service that enables customers to connect their Amazon VPCs and their on-premises networks to a single gateway. An Internet gateway is a component that enables communication between instances in a VPC and the Internet. Amazon EC2 is a service that provides scalable compute capacity in the cloud.

Question 7

Question Type: MultipleChoice

Which option best are general AWS Cloud design principles described in the AWS Well-Architected Framework?

Options:

- A- Consolidate key components into monolithic architectures.
- B- Test systems at production scale.
- C- Provision more capacity than a workload is expected to need.
- D- Drive architecture design based on data collected about the workload behavior and requirements.
- E- Make AWS Cloud architectural decisions static, one-time events.

Answer:

B, D

Explanation:

These are two of the general AWS Cloud design principles described in the AWS Well-Architected Framework. Testing systems at production scale means using tools such as AWS CloudFormation, AWS CodeDeploy, and AWS X-Ray to simulate real-world scenarios and measure the performance, scalability, and availability of the system. Driving architecture design based on data means using tools such as Amazon CloudWatch, AWS CloudTrail, and AWS Config to collect and analyze metrics, logs, and events about the system and use the insights to optimize the system's design and operation. You can learn more about the AWS Well-Architected Framework from [this whitepaper](#) or [\[this digital course\]](#).

Question 8

Question Type: MultipleChoice

A company is building a mobile app to provide shopping recommendations to its customers. The company wants to use a graph database as part of the shopping recommendation engine.

Which AWS database service should the company Select?

Options:

- A- Amazon DynamoDB
- B- Amazon Aurora
- C- Amazon Neptune
- D- Amazon DocumentDB (with MongoDB compatibility)

Answer:

C

Explanation:

Amazon Neptune is a service that provides a fully managed graph database that supports property graphs and RDF graphs. It can be used to build applications that work with highly connected datasets, such as shopping recommendations, social networks, fraud detection, and knowledge graphs². Amazon DynamoDB is a service that provides a fully managed NoSQL database that delivers fast and consistent performance at any scale. Amazon Aurora is a service that provides a fully managed relational database that is compatible with MySQL and PostgreSQL. Amazon DocumentDB (with MongoDB compatibility) is a service that provides a fully managed document database that is compatible with MongoDB.

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