CLF-C02$^{Q\&As}$

AWS Certified Cloud Practitioner

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QUESTION 1

Which component of the AWS global infrastructure does Amazon CloudFront use to deliver content to end users with low latency?

A. Edge locations

B. AWS Regions

C. Availability Zones

D. AWS Direct Connect connections

Correct Answer: A

QUESTION 2

A company is moving its office and must establish an encrypted connection to AWS.

Which AWS service will help meet this requirement?

A. AWS VPN

B. Amazon Route 53

C. Amazon API Gateway

D. Amazon Connect

Correct Answer: A

QUESTION 3

A company has a set of ecommerce applications. The applications need to be able to send messages to each other. Which AWS service meets this requirement?

A. AWS Auto Scaling

B. Elastic Load Balancing

C. Amazon Simple Queue Service (Amazon SQS)

D. Amazon Kinesis Data Streams

Correct Answer: C

QUESTION 4

Which AWS service or tool gives a company the ability to release application changes in an automated way?

A. Amazon AppFlow

B. AWS CodeDeploy

C. AWS PrivateLink

D. Amazon EKS Distro

Correct Answer: B

QUESTION 5

A company wants to block SQL injection attacks.

Which AWS service or feature should the company use to meet this requirement?

A. AWS WAF

B. Network ACLs

C. Security groups

D. AWS Certificate Manager (ACM)

Correct Answer: A

"AWS WAF is a web application firewall that helps protect web applications from attacks by allowing you to configure rules that allow, block, or monitor (count) web requests based on conditions that you define. These conditions include IP addresses, HTTP headers, HTTP body, URI strings, SQL injection and cross-site scripting."

References: https://aws.amazon.com/waf/faqs/

QUESTION 6

Which tasks are responsibilities of AWS, according to the AWS shared responsibility model? (Select TWO.)

A. Encrypt client-side data and authenticate data integrity.

B. Manage customer data.

C. Perform identity and access management.

D. Provide physical security for Availability Zones.

E. Patch the operating system of Amazon S3

Correct Answer: AD

QUESTION 7

A company has an application that uses AWS services. During scaling events, the company wants to keep application

usage within AWS service quotas.

Which AWS services or tools can report on the quotas so that the company can improve the reliability of the application? (Select TWO.)

A. Service Quotas console

B. AWS Trusted Advisor

C. AWS Systems Manager

D. AWS Shield

E. AWS Cost Explorer

Correct Answer: AB

The correct answers are A and B because Service Quotas console and AWS Trusted Advisor are AWS services or tools that can report on the quotas so that the company can improve the reliability of the application. Service Quotas console is an AWS tool that enables users to view and manage their quotas for AWS services from a central location. Users can use Service Quotas console to request quota increases, track quota usage, and set up alarms for approaching quota limits. AWS Trusted Advisor is an AWS service that provides real-time guidance to help users follow AWS best practices for security, performance, cost optimization, and fault tolerance. One of the categories of checks that AWS Trusted Advisor performs is service limits, which monitors the usage of each AWS service and alerts users when they are close to reaching the default limit. The other options are incorrect because they are not AWS services or tools that can report on the quotas so that the company can improve the reliability of the application. AWS Systems Manager is an AWS service that enables users to automate operational tasks, manage configuration and compliance, and monitor system health and performance. AWS Shield is an AWS service that protects users from distributed denial of service (DDoS) attacks. AWS Cost Explorer is an AWS tool that enables users to visualize, understand, and manage their AWS costs and usage. Reference: Service Quotas, AWS Trusted Advisor FAQs

QUESTION 8

Which options are perspectives that include foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF)? (Select TWO.)

A. Sustainability

B. Security

C. Operations

D. Performance efficiency

E. Reliability

Correct Answer: CD

The options that are perspectives that include foundational capabilities of the AWS Cloud Adoption Framework (AWS CAF) are operations and performance efficiency. The AWS CAF is a guidance that helps organizations design and travel an accelerated path to successful cloud adoption. The AWS CAF organizes the cloud adoption process into six areas of focus, called perspectives, which are business, people, governance, platform, security, and operations. Each perspective is divided into capabilities, which are further divided into skills and responsibilities. The operations perspective focuses on the management and monitoring of the cloud resources and applications, as well as the automation and optimization of the operational processes. The operations perspective capabilities are operations

support, operations integration, and service management. The performance efficiency perspective focuses on the selection and configuration of the right cloud resources and services to meet the performance requirements of the applications, as well as the continuous improvement and innovation of the cloud solutions. The performance efficiency perspective capabilities are selection, review, and monitoring. Sustainability, security, and reliability are not perspectives of the AWS CAF, but they are aspects of the AWS Well-Architected Framework. The AWS Well-Architected Framework is a guidance that helps users build and operate secure, reliable, efficient, and cost-effective systems in the cloud. The AWS Well-Architected Framework consists of five pillars, which are operational excellence, security, reliability, performance efficiency, and cost optimization. Sustainability is a cross-cutting theme that applies to all the pillars, and refers to the environmental and social impact of the cloud solutions.

QUESTION 9

Which AWS service provides an isolated virtual network to connect AWS services and resources?

A. Amazon EC2

B. Amazon DynamoDB

C. Amazon Lightsail

D. Amazon VPC

Correct Answer: D

Explanation: Amazon Virtual Private Cloud (Amazon VPC) enables you to launch AWS resources into a virtual network that you\\'ve defined. This virtual network closely resembles a traditional network that you\\'d operate in your own data center, with the benefits of using the scalable infrastructure of AWS.

QUESTION 10

A company uses AWS for its web application. The company wants to minimize latency and perform compute operations for the application as close to end users as possible.

Which AWS service or infrastructure component will provide this functionality?

A. AWS Regions

B. Availability Zones

C. Edge locations

D. AWS Direct Connect

Correct Answer: C

Edge locations are sites that Amazon CloudFront uses to cache copies of your content for faster delivery to users at any location. You can use Amazon CloudFront to deliver your entire website, including dynamic, static, streaming, and interactive content using a global network of edge locations. Requests for your content are automatically routed to the nearest edge location, so content is delivered with the best possible performance3. Edge locations can also host AWS Lambda functions to perform compute operations for your web application as close to end users as possible4.

QUESTION 11

A company is moving its virtual machines (VMs) from an on-premises environment to the AWS Cloud. The company plans to deploy Amazon EC2 instances. Which cloud computing model will the company use in this scenario?

A. Platform as a service (PaaS)

B. Infrastructure as a service (IaaS)

C. Function as a service (FaaS)

D. Software as a service (SaaS)

Correct Answer: B

QUESTION 12

Which aspect of security is the customer\\'s responsibility, according to the AWS shared responsibility model?

A. Patch and configuration management

B. Service and communications protection or zone security

C. Physical and environmental controls

D. Awareness and training

Correct Answer: A

According to the AWS shared responsibility model, AWS is responsible for the security of the cloud, while the customer is responsible for the security in the cloud. This means that AWS provides the physical and environmental controls, the service and communications protection, and the awareness and training for its employees, while the customer provides the patch and configuration management, the identity and access management, the data encryption, and the firewall configuration for its resources3.

QUESTION 13

A company needs to securely store important credentials that an application uses to connect users to a database.

Which AWS service can meet this requirement with the MINIMAL amount of operational overhead?

A. AWS Key Management Service (AWS KMS)

B. AWS Config

C. AWS Secrets Manager

D. Amazon GuardDuty

Correct Answer: C

AWS Secrets Manager is a service that helps you protect secrets needed to access your applications, services, and IT resources. You can use AWS Secrets Manager to store, rotate, and retrieve database credentials, API keys, and other

secrets throughout their lifecycle. AWS Secrets Manager eliminates the need to hardcode sensitive information in plain text, and reduces the risk of unauthorized access or leakage. AWS Secrets Manager also integrates with other AWS services, such as AWS Lambda, Amazon RDS, and AWS CloudFormation, to simplify the management of secrets across your environment5

QUESTION 14

A company wants to rightsize its Amazon EC2 instances.

Which configuration change will meet this requirement with the LEAST operational overhead?

A. Add EC2 instances in another Availability Zone.

B. Change the size and type of the EC2 instances based on utilization.

C. Convert the payment method from On-Demand to Savings Plans.

D. Reprovision the EC2 instances with a larger instance type.

Correct Answer: B

QUESTION 15

Which of the following is a recommended design principle for AWS Cloud architecture?

A. Design tightly coupled components.

B. Build a single application component that can handle all the application functionality.

C. Make large changes on fewer iterations to reduce chances of failure.

D. Avoid monolithic architecture by segmenting workloads.

Correct Answer: D

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