CLF-C02^{Q&As}

AWS Certified Cloud Practitioner

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QUESTION 1

Which AWS service or feature offers HTTP attack protection to users running public-facing web applications?

A. Security groups

B. Network ACLs

C. AWS Shield Standard

D. AWS WAF

Correct Answer: D

Explanation: AWS WAF is the AWS service or feature that offers HTTP attack protection to users running public-facing web applications. AWS WAF is a web application firewall that helps users protect their web applications from common web exploits, such as SQL injection, cross-site scripting, and bot attacks. Users can create custom rules to define the web traffic that they want to allow, block, or count. Users can also use AWS Managed Rules, which are pre-configured rules that are curated and maintained by AWS or AWS Marketplace Sellers. AWS WAF can be integrated with other AWS services, such as Amazon CloudFront, Amazon API Gateway, and Application Load Balancer, to provide comprehensive security for web applications. [AWS WAF Overview] AWS Certified Cloud Practitioner - aws.amazon.com

QUESTION 2

Which of the following is a cloud benefit that AWS offers to its users?

A. The ability to configure AWS data center hypervisors

B. The ability to purchase hardware in advance of increased traffic

C. The ability to deploy to AWS on a global scale

D. Compliance audits for user IT environments

Correct Answer: C

Explanation: The ability to deploy to AWS on a global scale is a cloud benefit that AWS offers to its users. AWS has a global infrastructure that consists of AWS Regions, Availability Zones, and edge locations. Users can choose from multiple AWS Regions around the world to deploy their applications and data closer to their end users, while also meeting their compliance and regulatory requirements. Users can also leverage AWS services, such as Amazon CloudFront, Amazon Route 53, and AWS Global Accelerator, to improve the performance and availability of their global applications. AWS also provides tools and guidance to help users optimize their global deployments, such as AWS Well- Architected Framework, AWS CloudFormation, and AWS Migration Hub. AWS Global Infrastructure [AWS Cloud Value Framework] AWS Certified Cloud Practitioner - aws.amazon.com

QUESTION 3

A company is using AWS Organizations to configure AWS accounts.

A company is planning its migration to the AWS Cloud. The company is identifying its capability gaps by using the AWS

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Cloud Adoption Framework (AWS CAF) perspectives.

Which phase of the cloud transformation journey includes these identification activities?

A. Envision

B. Align

C. Scale

D. Launch

Correct Answer: B

"Identify capability gaps and cross-organizational dependencies" https://aws.amazon.com/cloud-adoption-framework/

QUESTION 4

Which benefit is included with an AWS Enterprise Support plan?

A. AWS Partner Network (APN) support at no cost

B. Designated support from an AWS technical account manager (TAM)

C. On-site support from AWS engineers

D. AWS managed compliance as code with AWS Config

Correct Answer: B

Explanation: AWS offers different support plans to meet the needs of different customers. The AWS Enterprise Support plan is the highest level of support that provides customers with concierge-like service, where the main focus is helping them achieve their outcomes and find success in the cloud. One of the benefits of the AWS Enterprise Support plan is that customers get designated support from an AWS technical account manager (TAM), who provides consultative architectural and operational guidance based on their applications and use cases. Therefore, the correct answer is B. You can learn more about AWS support plans and their benefits from this page.

QUESTION 5

An Availability Zone consists of:

A. one or more data centers in a single location.

B. two or more data centers in multiple locations.

C. one or more physical hosts in a single data center.

D. two or more physical hosts in multiple data centers.

Correct Answer: A

Explanation: The correct answer is A because an Availability Zone consists of one or more data centers in a single location. An Availability Zone is an isolated location within an AWS Region that has independent power, cooling, and

networking. Each Availability Zone has one or more data centers that host the physical servers and storage devices that run the AWS services. The other options are incorrect because they are not accurate descriptions of an Availability Zone. Two or more data centers in multiple locations are not an Availability Zone, but rather multiple Availability Zones within an AWS Region. One or more physical hosts in a single data center are not an Availability Zone, but rather the components of a data center within an Availability Zone. Two or more physical hosts in multiple data centers are not an Availability Zone, but rather the components of multiple data centers within one or more Availability Zones. Reference: [Regions, Availability Zones, and Local Zones]

QUESTION 6

A company is running its application in the AWS Cloud and wants to protect against a DDoS attack. The company\\'s security team wants near real-time visibility into DDoS attacks.

Which AWS service or traffic filter will meet these requirements with the MOST features for DDoS protection?

A. AWS Shield Advanced

B. AWS Shield

C. Amazon GuardDuty

D. Network ACLs

Correct Answer: A

Explanation: AWS Shield Advanced is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield Advanced provides you with 24x7 access to the AWS DDoS Response Team (DRT) and protection against DDoS attacks of any size or duration. AWS Shield Advanced also provides near real-time visibility into attacks, advanced attack mitigation capabilities, and integration with AWS WAF and AWS Firewall Manager1. AWS Shield is a standard service that provides always-on detection and automatic inline mitigations to minimize application downtime and latency, but it does not offer the same level of features and support as AWS Shield Advanced2. Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior, but it does not provide DDoS protection3. Network ACLs are stateless filters that can be associated with a subnet to control the traffic to and from the subnet, but they are not designed to protect against DDoS attacks

QUESTION 7

A company wants to migrate its Microsoft SQL Server database management system from on premises to the AWS Cloud.

Which AWS service should the company use to reduce management overhead for this environment?

A. Amazon Elastic Container Service (Amazon ECS)

B. Amazon SageMaker

C. Amazon RDS

D. Amazon Athena

Correct Answer: C

Explanation: Amazon Relational Database Service (Amazon RDS) is the AWS service that the company should use to migrate its Microsoft SQL Server database management system from on premises to the AWS Cloud. Amazon RDS is a fully managed service that provides a scalable, secure, and high-performance relational database platform. Amazon RDS supports several database engines, including Microsoft SQL Server. Amazon RDS reduces the management overhead for the database environment by taking care of tasks such as provisioning, patching, backup, recovery, and monitoring. For more information, see What is Amazon Relational Database Service (Amazon RDS)? and Amazon RDS for SQL Server.

QUESTION 8

Which capabilities are in the platform perspective of the AWS Cloud Adoption Framework (AWS CAF)? (Select TWO.)

A. Performance and capacity management

B. Data engineering

C. Continuous integration and continuous delivery (CI/CD)

D. Infrastructure protection

E. Change and release management

Correct Answer: BC

These are two of the seven capabilities that are in the platform perspective of the AWS Cloud Adoption Framework (AWS CAF). The platform perspective helps you build an enterprise-grade, scalable, hybrid cloud platform, modernize existing

workloads, and implement new cloud-native solutions1. The other five capabilities are:

Platform architecture ?Establish and maintain guidelines, principles, patterns, and guardrails for your cloud environment.

Platform engineering ?Build a compliant multi-account cloud environment with enhanced security features, and packaged, reusable cloud products. Platform operations ?Manage and optimize your cloud environment with automation,

monitoring, and incident response.

Application development ?Develop and deploy cloud-native applications using modern architectures and best practices.

Application migration ?Migrate your existing applications to the cloud using proven methodologies and tools.

Performance and capacity management, infrastructure protection, and change and release management are not capabilities of the platform perspective. They are part of the operations perspective, which helps you achieve operational

excellence in the cloud2. The operations perspective comprises six capabilities:

Performance and capacity management ?Monitor and optimize the performance and capacity of your cloud workloads.

Infrastructure protection ?Protect your cloud infrastructure from unauthorized access, malicious attacks, and data breaches.

Change and release management ?Manage changes and releases to your cloud workloads using automation and

governance.

Configuration management ?Manage the configuration of your cloud resources and applications using automation and version control. Incident management ?Respond to incidents affecting your cloud workloads using best practices and

tools.

Service continuity management ?Ensure the availability and resilience of your cloud workloads using backup, recovery, and disaster recovery strategies.

QUESTION 9

A company wants to push VPC Flow Logs to an Amazon S3 bucket.

A company wants to optimize long-term compute costs of AWS Lambda functions and Amazon EC2 instances.

Which AWS purchasing option should the company choose to meet these requirements?

A. Dedicated Hosts

B. Compute Savings Plans

C. Reserved Instances

D. Spot Instances

Correct Answer: B

Explanation: Compute Savings Plans are a flexible and cost-effective way to optimize long-term compute costs of AWS Lambda functions and Amazon EC2 instances. With Compute Savings Plans, customers can commit to a consistent amount of compute usage (measured in $/hour) for a 1-year or 3-year term and receive a discount of up to 66% compared to On-Demand prices3. Dedicated Hosts are physical servers with EC2 instance capacity fully dedicated to the customer\\'s use. They are suitable for customers who have specific server-bound software licenses or compliance requirements4. Reserved Instances are a pricing model that provides a significant discount (up to 75%) compared to On-Demand pricing and a capacity reservation for EC2 instances. They are available in 1-year or 3-year terms and different payment options5. Spot Instances are spare EC2 instances that are available at up to 90% discount compared to On-Demand prices. They are suitable for customers who have flexible start and end times, can withstand interruptions, and can handle excess capacity.

QUESTION 10

A company has 5 TB of data stored in Amazon S3. The company plans to occasionally run queries on the data for analysis.

Which AWS service should the company use to run these queries in the MOST cost- effective manner?

A. Amazon Redshift

B. Amazon Athena

C. Amazon Kinesis

D. Amazon RDS

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Correct Answer: B

Explanation: Amazon Athena is a serverless, interactive analytics service that allows users to run SQL queries on data stored in Amazon S3. It is ideal for occasional queries on large datasets, as it does not require any server provisioning, configuration, or management. Users only pay for the queries they run, based on the amount of data scanned. Amazon Athena supports various data formats, such as CSV, JSON, Parquet, ORC, and Avro, and integrates with AWS Glue Data

Catalog to create and manage schemas. Amazon Athena also supports querying data from other sources, such as on-premises or other cloud systems, using data connectors1. Amazon Redshift is a fully managed data warehouse service

that allows users to run complex analytical queries on petabyte-scale data. However, it requires users to provision and maintain clusters of nodes, and pay for the storage and compute capacity they use. Amazon Redshift is more suitable for

frequent and consistent queries on structured or semi-structured data2.

Amazon Kinesis is a platform for streaming data on AWS, enabling users to collect, process, and analyze real-time data. It is not designed for querying data stored in Amazon S3. Amazon Kinesis consists of four services: Kinesis Data

Streams, Kinesis Data Firehose, Kinesis Data Analytics, and Kinesis Video Streams3. Amazon RDS is a relational database service that provides six database engines: Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and

SQL Server. It simplifies database administration tasks such as backup, patching, scaling, and replication. However, it is not optimized for querying data stored in Amazon S3. Amazon RDS is more suitable for transactional workloads that

require high performance and availability4.

References:

Interactive SQL - Serverless Query Service - Amazon Athena - AWS [Amazon Redshift ?Data Warehouse Solution - AWS] [Amazon Kinesis - Streaming Data Platform - AWS]

[Amazon Relational Database Service (RDS) ?AWS]

QUESTION 11

Which AWS service is a cloud security posture management (CSPM) service that aggregates alerts from various AWS services and partner products in a standardized format?

A. AWS Security Hub

B. AWS Trusted Advisor

C. Amazon EventBridge

D. Amazon GuardDuty

Correct Answer: A

"AWS Security Hub is a cloud security posture management (CSPM) service that performs automated, continuous security best practice checks against your AWS resources to help you identify misconfigurations, and aggregates your security alerts (i.e. findings) in a standardized format so that you can more easily enrich, investigate, and remediate them."

![Pass2Lead](https://Pass2Lead.com)
Reference: https://aws.amazon.com/security-hub/features/?nc=snandloc=2

QUESTION 12

An e-learning platform needs to run an application for 2 months each year. The application will be deployed on Amazon EC2 instances. Any application downtime during those 2 months must be avoided. Which EC2 purchasing option will meet these requirements MOST cost-effectively?

A. Reserved Instances

B. Dedicated Hosts

C. Spot Instances

D. On-Demand Instances

Correct Answer: D

"On-Demand Instances are recommended for:

Users that prefer the low cost and flexibility of EC2 without any upfront payment or long-term commitment

Applications with short-term, spiky, or unpredictable workloads that cannot be interrupted

Applications being developed or tested on EC2 for the first tim";

Reference: https://aws.amazon.com/ec2/pricing/

QUESTION 13

A cloud practitioner is analyzing Amazon EC2 instance performance and usage to provide recommendations for potential cost savings.

Which cloud concept does this analysis demonstrate?

A. Auto scaling

B. Rightsizing

C. Load balancing

D. High availability

Correct Answer: B

Explanation: Rightsizing is the cloud concept that this analysis demonstrates. Rightsizing is the process of optimizing the performance and cost of your AWS resources by selecting the most appropriate type, size, and configuration based on your workload requirements and usage patterns. Rightsizing can help you achieve potential cost savings by reducing the over-provisioning or under-utilization of your resources. You can use various AWS tools and services, such as AWS Cost Explorer, AWS Compute Optimizer, and AWS Trusted Advisor, to analyze your resource utilization and performance metrics, and receive recommendations for rightsizing.

QUESTION 14

A company needs to organize its resources and track AWS costs on a detailed level. The company needs to categorize costs by business department, environment, and application. Which solution will meet these requirements?

A. Access the AWS Cost Management console to organize resources, set an AWS budget, and receive notifications of unintentional usage.

B. Use tags to organize the resources. Activate cost allocation tags to track AWS costs on a detailed level.

C. Create Amazon CloudWatch dashboards to visually organize and track costs individually.

D. Access the AWS Billing and Cost Management dashboard to organize and track resource consumption on a detailed level.

Correct Answer: B

QUESTION 15

Which AWS service helps deliver highly available applications with fast failover for multi-Region and Multi-AZ architectures?

A. AWS WAF

B. AWS Global Accelerator

C. AWS Shield

D. AWS Direct Connect

Correct Answer: B

"Deliver highly available applications with fast failover for multi-Region and multi-AZ architectures."

Reference: https://aws.amazon.com/global-accelerator/

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