



# CLF-C02<sup>Q&As</sup>

AWS Certified Cloud Practitioner

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### QUESTION 1

Which AWS service or feature offers security for a VPC by acting as a firewall to control traffic in and out of subnets?

- A. AWS Security Hub
- B. Security groups
- C. Network ACL
- D. AWS WAF

Correct Answer: C

Explanation: A network access control list (network ACL) is a feature that acts as a firewall for controlling traffic in and out of one or more subnets in a virtual private cloud (VPC). Network ACLs can be configured with rules that allow or deny traffic based on the source and destination IP addresses, ports, and protocols<sup>1</sup>. AWS Security Hub is a service that provides a comprehensive view of the security posture of AWS accounts and resources<sup>2</sup>. Security groups are features that act as firewalls for controlling traffic at the instance level<sup>3</sup>. AWS WAF is a web application firewall that helps protect web applications from common web exploits<sup>4</sup>.

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### QUESTION 2

Which perspective in the AWS Cloud Adoption Framework (AWS CAF) includes a capability for well-designed data and analytics architecture?

- A. Security
- B. Governance
- C. Operations
- D. Platform

Correct Answer: D

The correct answer is D. Platform.

The Platform perspective in the AWS Cloud Adoption Framework (AWS CAF) includes a capability for well-designed data and analytics architecture. This capability helps you design, implement, and optimize your data and analytics solutions

on AWS, using services such as Amazon S3, Amazon Redshift, Amazon EMR, Amazon Kinesis, Amazon Athena, and Amazon QuickSight. A well-designed data and analytics architecture enables you to collect, store, process, analyze, and

visualize data from various sources, and derive insights that can drive your business decisions<sup>12</sup>. The Security perspective does not include a capability for data and analytics architecture, but it does include a capability for data protection,

which helps you secure your data at rest and in transit using encryption, key management, access control, and auditing<sup>13</sup>. The Governance perspective does not include a capability for data and analytics architecture, but it does include a



capability for data governance, which helps you manage the quality, availability, usability, integrity, and security of your data assets<sup>14</sup>. The Operations perspective does not include a capability for data and analytics architecture, but it does

include a capability for data operations, which helps you monitor, troubleshoot, and optimize the performance and availability of your data pipelines and workloads<sup>1</sup>.

References:

1: Foundational capabilities - An Overview of the AWS Cloud Adoption Framework 2: [AWS Cloud Adoption Framework: Platform Perspective] 3: [AWS Cloud Adoption Framework:

Security Perspective] 4: [AWS Cloud Adoption Framework: Governance Perspective] :

[AWS Cloud Adoption Framework: Operations Perspective]

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### QUESTION 3

A company is building a serverless architecture that connects application data from multiple data sources. The company needs a solution that does not require additional code.

Which AWS service meets these requirements?

- A. AWS Lambda
- B. Amazon Simple Queue Service (Amazon SQS)
- C. Amazon CloudWatch
- D. Amazon EventBridge

Correct Answer: D

Explanation: Amazon EventBridge is the service that meets the requirements of building a serverless architecture that connects application data from multiple data sources without requiring additional code. Amazon EventBridge is a serverless event bus service that allows you to easily connect your applications with data from AWS services, SaaS applications, and your own applications. You can use Amazon EventBridge to create rules that match events and route them to targets such as AWS Lambda functions, Amazon SNS topics, Amazon SQS queues, or other AWS services. Amazon EventBridge handles the event ingestion, delivery, security, authorization, and error handling for you<sup>34</sup>

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### QUESTION 4

A newly created IAM user has no IAM policy attached.

What will happen when the user logs in and attempts to view the AWS resources in the account?

- A. All AWS services will be read-only access by default.
- B. Access to all AWS resources will be denied.
- C. Access to the AWS billing services will be allowed.
- D. Access to AWS resources will be allowed through the AWS CLI



Correct Answer: B

Explanation: Access to all AWS resources will be denied if a newly created IAM user has no IAM policy attached and logs in and attempts to view the AWS resources in the account. IAM policies are the way to grant permissions to IAM users, groups, and roles to access and manage AWS resources. By default, IAM users have no permissions, unless they are explicitly granted by an IAM policy. Therefore, a newly created IAM user without any IAM policy attached will not be able to view or perform any actions on the AWS resources in the account. Access to the AWS billing services and AWS CLI will also be denied, unless the user has the necessary permissions.

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## QUESTION 5

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

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 connectors<sup>1</sup>. 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 data<sup>2</sup>.

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 Streams<sup>3</sup>. 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 availability<sup>4</sup>.

References:



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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]

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