Quiz M5

1. What can be used to control access to an Amazon S3 bucket? (Select THREE.)

- ☐ Attribute-based access control (ABAC)
- ☐ Virtual private cloud (VPC) endpoint policies
- ☐ IAM tags
- ☐ S3 bucket policies
- ☐ AWS Identity and Access Management (IAM) policies
- ☐ Host-based access

2. Which control mechanism is recommended to protect data in transit to Amazon S3 to reduce the risk of unauthorized access or loss?

- ○ Use network access control lists (ACLs) on the bucket.
- ○ Enforce access control.
- ○ Configure a security group and add the S3 bucket to it.
- ○ Use Amazon Virtual Private Cloud (Amazon VPC) endpoints to limit access to the bucket.

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3. Amazon S3 Object Lock is a feature that provides protection for scenarios where it's imperative that data is not changed or deleted. What are the two ways to manage object retention with Object Lock?

○ Retention periods and VPC Flow Logs

○ RestrictPublicBuckets and BlockPublicPolicy

○ Legal holds and S3 Intelligent-Tiering

○ Retention periods and legal holds

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4. Which Amazon S3 feature stores objects by using the write-once-read-many (WORM) model?

○ S3 Block Public Access

○ S3 Versioning

○ S3 Object Lock

○ S3 BlockPublicAcls

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5. Which AWS service can be used to generate encryption keys that are protected by FIPS 140-2 validated hardware security modules (HSMs)?

○ AWS Certificate Manager Private Certificate Authority

○ AWS Key Management Service (AWS KMS)

○ AWS Certificate Manager (ACM)

○ AWS Secrets Manager

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KEYBOARD NAVIGATION

6. Which types of server-side encryption (SSE) are available for Amazon S3? (Select THREE.)

☐ SSE with customer-provided keys (SSE-C)

☐ SSE with Amazon S3 managed keys (SSE-S3)

☐ SSE with 256-bit Advanced Encryption Standard keys (SSE-AES)

☐ SSE with AWS Key Management Service (AWS KMS) keys (SSE-KMS)

☐ SSE with SSL-managed keys (SSE-SSL)

☐ SSE with AWS hardware security module keys (SSE-HSM)

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7. Which statement regarding client-side encryption is true?

○ The keys and algorithms are known only to the customer.

○ Data is stored in its encrypted state, but keys and algorithms are known by the customer and AWS.

○ Data is encrypted at its destination by the application or service that receives it.

○ The application encrypts data after sending it to AWS.

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8. Which statement is true about server-side encryption in Amazon S3 with customer-provided keys (SSE-C)?

- ○ The customer retains control of the keys.
- ○ The encrypted data and keys are stored in separate hosts.
- ○ SSE-C provides an audit trail that shows when the key was used and by whom.
- ○ An envelope key is used for added protection.

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9. Which AWS service can be used to store items, such as database credentials, securely without having to hard code them into the source code or a configuration file?

- ○ AWS Secrets Manager
- ○ AWS Key Management Service (AWS KMS)
- ○ AWS Certificate Manager Private Certificate Authority
- ○ Amazon Macie