

1) A company is building a data lake on AWS and wants to enable their analysts to run SQL queries on data stored in Amazon S3. Which AWS service allows this without needing to move the data?

- A) AWS Glue
- B) Amazon Redshift
- C) Amazon Athena
- D) Amazon EMR

2) A company uses a relational database on Amazon RDS for critical data and needs to perform cross-region replication for disaster recovery. Which feature will help them set this up?

- A) Amazon RDS Multi-AZ
- B) Amazon RDS Cross-Region Read Replicas
- C) Amazon DynamoDB Global Tables
- D) Amazon Aurora Global Databases

3) A solutions architect is designing a system to process large amounts of streaming data. Which service is best suited for real-time data ingestion and processing?

- A) Amazon Kinesis
- B) Amazon SQS
- C) Amazon SNS
- D) AWS Glue

4) A company wants to use AWS for a new application and needs to control costs. The company has a predictable workload with consistent compute needs. Which EC2 pricing model is best suited for this requirement?

- A) On-Demand Instances
- B) Spot Instances
- C) Reserved Instances
- D) Dedicated Hosts

5) A mobile application needs to retrieve user-specific data with sub-millisecond latency. Which AWS service is the most suitable option?

- A) Amazon RDS
- B) Amazon DynamoDB

- C) Amazon Redshift
- D) Amazon S3

6) A company's security policy mandates that any data stored in Amazon S3 must be encrypted at rest using keys managed by AWS. Which encryption option meets this requirement?

- A) Server-Side Encryption with S3 Managed Keys (SSE-S3)
- B) Server-Side Encryption with Customer-Provided Keys (SSE-C)
- C) Server-Side Encryption with AWS KMS (SSE-KMS)
- D) Client-Side Encryption

7) A healthcare company needs to ensure HIPAA-compliant access to patient data stored on Amazon RDS. Which feature should they enable to protect the database and data?

- A) Encrypt the database using AWS KMS keys
- B) Use Amazon GuardDuty
- C) Configure multi-factor authentication
- D) Enable CloudTrail logging

8) A company uses an S3 bucket to store documents uploaded by customers. They want to notify their backend service each time a new document is uploaded. Which feature should they use?

- A) Amazon CloudFront
- B) S3 Versioning
- C) S3 Event Notifications
- D) AWS Lambda

9) A media company needs to stream live video to millions of users worldwide, ensuring low latency and high availability. Which AWS service is best suited for this requirement?

- A) Amazon CloudFront
- B) Amazon S3
- C) AWS Global Accelerator
- D) AWS CodePipeline

10) A company needs to deploy machine learning models that require GPUs for processing. They need flexibility to start and stop instances as needed. Which instance type is best suited for this?

- A) Compute-optimized instances
- B) Storage-optimized instances
- C) Accelerated computing instances
- D) Memory-optimized instances

Solutions:

- C) Amazon Athena**
- B) Amazon RDS Cross-Region Read Replicas**
- A) Amazon Kinesis**
- C) Reserved Instances**
- B) Amazon DynamoDB**
- C) Server-Side Encryption with AWS KMS (SSE-KMS)**
- A) Encrypt the database using AWS KMS keys**
- C) S3 Event Notifications**
- A) Amazon CloudFront**
- C) Accelerated computing instances**