1) A company is implementing a compliance policy that requires all log files to be kept for seven years. Which combination of S3 features will help them retain logs cost-effectively?

A) S3 Standard storage class and S3 Lifecycle policies
B) S3 Versioning and Cross-Region Replication
C) S3 Glacier Deep Archive and S3 Lifecycle policies
D) S3 Transfer Acceleration and S3 Intelligent-Tiering

2) A company has an application hosted on EC2 instances that requires low-latency access to cached data. Which AWS service is best suited for providing a managed, in-memory data store?

A) Amazon RDS
B) Amazon DynamoDB
C) Amazon ElastiCache
D) Amazon S3

3) A solutions architect needs to create a disaster recovery solution for an application in a different AWS Region. Which of the following approaches is most suitable for a quick failover?

A) Enable RDS Multi-AZ deployment
B) Set up Cross-Region Replication for Amazon RDS
C) Use Amazon CloudFront
D) Use Elastic Load Balancing with an Application Load Balancer

4) A company wants to limit access to certain AWS services only to users in the Finance department within their AWS Organization. Which feature allows them to enforce this policy?

A) AWS IAM Policies
B) Service Control Policies (SCPs) in AWS Organizations
C) AWS Resource Access Manager
D) VPC Security Groups

5) A company's database workloads experience unpredictable traffic. They need a cost-effective database that can automatically adjust capacity to handle workload spikes. Which database solution should they use?

A) Amazon RDS with Multi-AZ
B) Amazon Aurora Serverless

C) Amazon DynamoDB with DAX
D) Amazon RDS with Read Replicas

6) A healthcare provider needs to transfer sensitive patient data to AWS while ensuring it is encrypted during transfer and at rest. Which solution provides this protection?

A) Amazon CloudFront with SSL/TLS
B) AWS Key Management Service (KMS) and AWS Direct Connect
C) AWS VPN with encryption and Amazon S3 with SSE-KMS
D) Amazon Route 53 with AWS Shield

7) A company needs to quickly deploy applications across multiple regions while ensuring minimal management of the underlying infrastructure. Which service should they choose?

A) AWS Fargate
B) AWS Lambda
C) AWS Elastic Beanstalk
D) Amazon ECS

8) A machine learning team wants to analyze large datasets stored in Amazon S3 and needs to transform the data for training. Which combination of services can help them preprocess the data in a serverless environment?

A) AWS Glue and Amazon Athena
B) Amazon Redshift and AWS Batch
C) Amazon EMR and AWS Lambda
D) Amazon RDS and Amazon CloudFront

9) A company needs to set up event-driven communication between its microservices in a highly decoupled way. Which AWS service is best suited for this purpose?

A) Amazon SQS
B) AWS Step Functions
C) Amazon SNS
D) AWS CloudTrail

10) A media company has a web application that requires frequent updates to the codebase without downtime. Which deployment strategy is the best fit?

A) All-at-once deployment
B) Blue/Green deployment
C) In-place update
D) Rolling update

Solutions

C) S3 Glacier Deep Archive and S3 Lifecycle policies
C) Amazon ElastiCache
B) Set up Cross-Region Replication for Amazon RDS
B) Service Control Policies (SCPs) in AWS Organizations
B) Amazon Aurora Serverless
C) AWS VPN with encryption and Amazon S3 with SSE-KMS
C) AWS Elastic Beanstalk
A) AWS Glue and Amazon Athena
C) Amazon SNS
B) Blue/Green deployment