

**1) A company wants to run batch processing jobs that can tolerate interruptions and wants to minimize costs. Which EC2 instance purchasing option is the most suitable?**

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

**2) A web application runs in a VPC across multiple Availability Zones, and the database runs in a private subnet. The application needs to access the internet for API calls, but it shouldn't be directly accessible from the internet. What is the best solution to allow internet access?**

- A) Use an Internet Gateway in the private subnet
- B) Configure a NAT Gateway in a public subnet
- C) Assign Elastic IP addresses to the instances in the private subnet
- D) Use an Amazon S3 endpoint

**3) A company wants to track the historical configuration changes of its resources, including Amazon EC2, RDS, and S3. Which AWS service provides this functionality?**

- A) AWS CloudTrail
- B) Amazon CloudWatch
- C) AWS Config
- D) AWS Trusted Advisor

**4) A company has a web application on EC2 instances behind an Application Load Balancer. They need to allow access only from specific IP addresses. What is the best solution?**

- A) Use an IAM Policy
- B) Configure Security Groups
- C) Use AWS WAF with IP-based filtering
- D) Modify the load balancer settings

**5) A developer needs to automate code deployment to Amazon EC2 instances and AWS Lambda. Which service is most suitable for this task?**

- A) AWS CodeBuild
- B) AWS CodeDeploy

- C) AWS CodeCommit
- D) AWS CodePipeline

**6) A company wants to set up a highly available and fault-tolerant relational database. Which AWS service provides automated failover and data replication across multiple Availability Zones?**

- A) Amazon DynamoDB
- B) Amazon RDS with Multi-AZ
- C) Amazon S3
- D) Amazon Aurora with Global Databases

**7) A financial firm wants to restrict access to sensitive data in S3 and enforce encryption at rest using their own encryption keys stored in AWS. Which option should they use?**

- A) SSE-S3
- B) SSE-KMS with AWS KMS
- C) SSE-C (Server-Side Encryption with Customer-provided keys)
- D) Client-Side Encryption

**8) A mobile application sends and receives messages between users in real-time. Which AWS service is best suited for handling this messaging functionality?**

- A) Amazon SQS
- B) Amazon SNS
- C) AWS Step Functions
- D) Amazon API Gateway with WebSocket

**9) A company uses Amazon CloudFront to serve its website globally. To speed up user access to new content, which feature should they enable to ensure that updated content is distributed quickly?**

- A) CloudFront Geo Restriction
- B) CloudFront Invalidations
- C) S3 Transfer Acceleration
- D) CloudFront Signed URLs

**10) A solutions architect is designing a serverless data pipeline to process streaming data in real-time and then load it into Amazon S3 for storage. Which services should they use?**

- A) Amazon Kinesis Data Streams and AWS Glue
- B) Amazon SQS and Amazon RDS
- C) Amazon SNS and Amazon CloudWatch
- D) Amazon API Gateway and Amazon DynamoDB

Solutions

**B) Spot Instances**

**B) Configure a NAT Gateway in a public subnet**

**C) AWS Config**

**C) Use AWS WAF with IP-based filtering**

**B) AWS CodeDeploy**

**B) Amazon RDS with Multi-AZ**

**C) SSE-C (Server-Side Encryption with Customer-provided keys)**

**D) Amazon API Gateway with WebSocket**

**B) CloudFront Invalidation**

**A) Amazon Kinesis Data Streams and AWS Glue**