**QUESTION 1**

A Solutions Architect is designing a new social media application. The application must provide a secure method for uploading profile photos. Each user should be able to upload a profile photo

into a shared storage location for one week after their profile is created.

Which approach will meet all of these requirements?

A. Use Amazon Kinesis with AWS CloudTrail for auditing the specific times when profile photos are uploaded.

B. Use Amazon EBS volumes with IAM policies restricting user access to specific time periods.

C. Use Amazon S3 with the default private access policy and generate pre-signed URLs each time a new site profile is created.

D. Use Amazon CloudFront with AWS CloudTrail for auditing the specific times when profile photos are uploaded.

**Correct Answer:** C

**QUESTION 2**

A Solutions Architect is designing a three-tier web application. The Architect wants to restrict access to the database tier to accept traffic from the application servers only. However, these

application servers are in an Auto Scaling group and may vary in quantity.

How should the Architect configure the database servers to meet the requirements?

A. Configure the database security group to allow database traffic from the application server IP addresses.

B. Configure the database security group to allow database traffic from the application server security group.

C. Configure the database subnet network ACL to deny all inbound non-database traffic from the application-tier subnet.

D. Configure the database subnet network ACL to allow inbound database traffic from the application-tier subnet.

**Correct Answer:** B

**QUESTION 3**

A legacy application running in premises requires a Solutions Architect to be able to open a firewall to allow access to several Amazon S3 buckets. The Architect has a VPN connection to AWS

in place.

How should the Architect meet this requirement?

A. Create an IAM role that allows access from the corporate network to Amazon S3.

B. Configure a proxy on Amazon EC2 and use an Amazon S3 VPC endpoint.

C. Use Amazon API Gateway to do IP whitelisting.

D. Configure IP whitelisting on the customer’s gateway.

**Correct Answer:** A

**QUESTION 4**

A Solutions Architect is building a new feature using Lambda to create metadata when a user uploads a picture to Amazon S3. All metadata must be indexed.

Which AWS service should the Architect use to store this metadata?

A. Amazon S3

B. Amazon DynamoDB

C. Amazon Kinesis

D. Amazon EFS

**Correct Answer:** B

**QUESTION 5**

A company hosts a popular web application. The web application connects to a database running in a private VPC subnet. The web servers must be accessible only to customers on an SSL

connection. The RDS MySQL database server must be accessible only from the web servers.

How should the Architect design a solution to meet the requirements without impacting running applications?

A. Create a network ACL on the web server’s subnet, and allow HTTPS inbound and MySQL outbound. Place both database and web servers on the same subnet.

B. Open an HTTPS port on the security group for web servers and set the source to 0.0.0.0/0. Open the MySQL port on the database security group and attach it to the MySQL instance. Set the

source to Web Server Security Group.

C. Create a network ACL on the web server’s subnet, and allow HTTPS inbound, and specify the source as 0.0.0.0/0. Create a network ACL on a database subnet, allow MySQL port inbound

for web servers, and deny all outbound traffic.

D. Open the MySQL port on the security group for web servers and set the source to 0.0.0.0/0. Open the HTTPS port on the database security group and attach it to the MySQL instance. Set

the source to Web Server Security Group.

**Correct Answer:** B

**QUESTION 6**

One company wants to share the contents of their Amazon S3 bucket with another company. Security requirements mandate that only the other company’s AWS accounts have access to the

contents of the Amazon S3 bucket.

Which Amazon S3 feature will allow secure access to the Amazon S3 bucket?

A. Bucket policy

B. Object tagging

C. CORS configuration

D. Lifecycle policy

**Correct Answer:** A

**QUESTION 7**

A university is running an internal web application on AWS that students can access from the university network to check their exam results. The web application runs on Amazon EC2 instances

and pulls results from an Amazon DynamoDB table. Auto Scaling is currently configured to add a new web server when CPU is greater than 80% for 5 minutes. DynamoDB is configured to

increase both read and write capacity units by five when utilization is greater than 80%. Exam results are released at 9:00 a.m. each Monday, and 80% of students, attempt to access their

unique result within the first 30 minutes. Despite Auto Scaling being enabled, students are complaining of slow response times and errors when they view the site. There are no performance

complaints after 9:30 a.m. on Monday.

Which recommendation should a Solutions Architect make to improve performance in a cost-effective manner?

A. Scale out the EC2 instances to ensure that the environment scales up and down based on the highest load.

B. Implement Amazon DynamoDB Accelerator to improve database performance and remove the need to scale the read/write units.

C. Use a scheduled job to scale out EC2 before 9:00 a.m. on Monday and to scale down after 9:30 a.m.

D. Use Amazon CloudFront to cache web request and reduce the load on EC2 and DynamoDB.

**Correct Answer:** C

**QUESTION 8**

A Solutions Architect must migrate a monolithic on-premises application to AWS. It is a web application with a load balancer, web server, application server, and relational database. The key

requirement driving the migration is that the application should perform better and be more elastic.

Which of the following architectures would meet these requirements?

A. Re-host the application on Amazon EC2 with lift and shift of existing application code. Configure an Elastic Load Balancing load balancer to handle incoming requests. Use Amazon

CloudWatch alarms to receive notification of scaling issues. Increase and decrease the size of the Amazon EC2 instances using AWS CLI or AWS Management Console as required.

B. Re-architect the application as a three-tier application. Move the database to Amazon RDS. Use read replicas and Amazon ElastiCache with RDS for better performance. Use an Application

Load Balancer to forward incoming requests to web and application servers running on-premises.

C. Re-platform the application as a three-tier application. Use Elastic Load Balancing for incoming requests. Use EC2 for web and application tiers. Use RDS at the database tier. Use

CloudWatch alarms and Auto Scaling for horizontal scaling at the web tier.

D. Re-architect the application as Service Oriented Architecture (SOA). Run database and application servers on-premises. Run web-facing EC2 servers. Use an Enterprise Service Bus to

handle communications between different parts of the application running on-premises and in the cloud.

**Correct Answer:** A

**QUESTION 9**

A Solutions Architect needs to deploy a node.js-based web application that is highly available and scales automatically. The Marketing team needs to roll back on application releases quickly,

and they need to have an operational dashboard. The Marketing team does not want to manage deployment of OS patches to the Linux servers.

Use of which AWS service will satisfy these requirements?

A. Amazon EC2

B. Amazon API Gateway

C. AWS Elastic Beanstalk

D. Amazon EC2 Container Service

**Correct Answer:** C

**QUESTION 10**

A Solutions Architect must build a secure document –storage platform that allows clients to access data stored on Amazon S3. Documents must be readily available for the first 15 days. After

that, documents need not be readily available, and storage costs should be reduced as much as possible.

Which of the following approaches will satisfy these requirements?

A. Create a lifecycle rule to transition the documents from the STANDARD storage class to the STANDARD\_IA storage class after 15 days, and then to the GLACIER storage class after an

additional 15 days.

B. Create a lifecycle rule to transition the documents from the STANDARD storage class to the GLACIER storage class after 30 days.

C. Create a lifecycle rule to transition documents from the STANDARD storage class to the STANDARD\_IA storage class after 30 days and then to the GLACIER storage class after an

additional 30 days.

D. Create a lifecycle rule to transition the documents from the STANDARD storage class to the GLACIER storage class after 15 days.

**Correct Answer:** D

**QUESTION 11**

An application has a web tier that runs on EC2 instances in a public subnet. The application tier instances run in private subnets across two Availability Zones. All traffic is IPv4 only, and each

subnet has its own custom route table.

A new feature requires that application tier instances can call an external service over the Internet; however, they must still not be accessible to Internet traffic.

What should be done to allow the application servers to connect to the Internet, maintain high availability, and minimize administrative overhead?

A. Add an Amazon egress-only internet gateway to each private subnet. Alter each private subnet’s route table to include a route from 0.0.0.0/0 to the egress-only internal gateway in the same

Availability Zone.

B. Add an Amazon NAT Gateway to each public subnet. Alter each private subnet’s route table to include a route from 0.0.0.0/0 to the NAT Gateway in the same Availability Zone.

C. Add an Amazon NAT instance to one of the public subnets Alter each private subnet’s route table to include a route from 0.0.0.0/0 to the Internet gateway in the VPC.

D. Add an Amazon NAT Gateway to each private subnet. Alter each private subnet’s route table to include a route from 0.0.0.0/0 to the NAT Gateway in the other Availability Zone.

**Correct Answer:** B

**QUESTION 12**

A company is moving to AWS. Management has identified a set of approved AWS services that meet all deployment requirements. The company would like to restrict access to all other

unapproved services to which employees would have access.

Which solution meets these requirements with the LEAST amount of operational overhead?

A. Configure the AWS Trusted Advisor service utilization compliance report. Subscribe to Amazon SNS notifications from Trusted Advisor. Create a custom AWS Lambda function that can

automatically remediate the use of unauthorized services.

B. Use AWS Config to evaluate the configuration settings of AWS resources. Subscribe to Amazon SNS notifications from AWS Config. Create a custom AWS Lambda function that can

automatically remediate the use of unauthorized services.

C. Configure AWS Organizations. Create an organizational unit (OU) and place all AWS accounts into the OU. Apply a service control policy (SCP) to the OU that denies the use of certain

services.

D. Create a custom AWS IAM policy. Deploy the policy to each account using AWS CloudFormation StackSets. Include deny statements in the policy to restrict the use of certain services.

Attach the policies to all IAM users in each account.

**Correct Answer:** C

**QUESTION 13**

A company is running a series of national TV campaigns. These 30-second advertisements will introduce sudden traffic peaks targeted at a Node.js application. The company expects traffic to

increase from five requests each minute to more than 5,000 requests each minute.

Which AWS service should a Solutions Architect use to ensure traffic surges can be handled?

A. AWS Lambda

B. Amazon ElastiCache

C. Size EC2 instances to handle peak load

D. An Auto Scaling group for EC2 instances

**Correct Answer:** D

**QUESTION 14**

A retail company operates an e-commerce environment that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group.

Images are hosted in an Amazon S3 bucket using a custom domain name.

During a flash sale with 10,000 simultaneous users, some images on the website are not loading.

What should be done to resolve the performance issue?

A. Move the images to the EC2 instances in the Auto Scaling group.

B. Enable Transfer Acceleration for the S3 bucket.

C. Configure an Amazon CloudFront distribution with the S3 bucket as the origin.

D. Increase the number of minimum, desired, and maximum EC2 instances in the Auto Scaling group.

**Correct Answer:** D

**QUESTION 15**

An application calls a service run by a vendor. The vendor charges based on the number of calls. The finance department needs to know the number of calls that are made to the service to

validate the billing statements.

How can a Solutions Architect design a system to durably store the number of calls without requiring changes to the application?

A. Call the service through an internet gateway.

B. Decouple the application from the service with an Amazon SQS queue.

C. Publish a custom Amazon CloudWatch metric that counts calls to the service.

D. Call the service through a VPC peering connection.

**Correct Answer:** C