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AWS Certified Solutions Architect - Associate (SAA-C01)

Amazon AWS AWS-Certified-Solutions-Architect-Associate-SAA-C01

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QUESTION NO: 1

A Solutions Architect has a multi-layer application running in Amazon VPC. The application has an ELB Classic Load Balancer as the front end in a public subnet, and an Amazon EC2-based reverse proxy that performs content-based routing to two backend Amazon EC2 instances hosted in a private subnet. The Architect sees tremendous traffic growth and is concerned that the reverse proxy and current backend set up will be insufficient.

Which actions should the Architect take to achieve a cost-effective solution that ensures the application automatically scales to meet traffic demand? (Select two.)

A. Replace the Amazon EC2 reverse proxy with an ELB internal Classic Load Balancer.

B. Add Auto Scaling to the Amazon EC2 backend fleet.

C. Add Auto Scaling to the Amazon EC2 reverse proxy layer.

D. Use t2 burstable instance types for the backend fleet.

E. Replace both the frontend and reverse proxy layers with an ELB Application Load Balancer.

ANSWER: B E

QUESTION NO: 2

A company must collect temperature data from thousands of remote weather devices. The company must also store this data in a data warehouse to run aggregations and visualizations.

Which services will meet these requirements? (Choose two.)

A. Amazon Kinesis Data Firehouse

B. Amazon SQS

C. Amazon Redshift

D. Amazon SNS

E. Amazon DynamoDB

ANSWER: A C

QUESTION NO: 3

A web server will be provisioned on two Amazon EC2 instances with an Application Load Balancer.

Which of the following configurations will allow traffic on HTTP and HTTPS when configuring a security group to apply to each of these servers?

A. Allow all inbound traffic, with explicit denies on non-HTTP and non-HTTPS ports.

B. Allow incoming traffic to HTTP and HTTPS ports.

C. Allow incoming traffic to HTTP and HTTPS ports, with explicit denies to all other ports.

D. Deny all traffic to non-HTTP and non-HTTPS ports

ANSWER: B

QUESTION NO: 4

A Solutions Architect is about to deploy an API on multiple EC2 instances in an Auto Scaling group behind an ELB. The support team has the following operational requirements: 1 They get an alert when the requests per second go over 50,000

2 They get an alert when latency goes over 5 seconds

3 They can validate how many times a day users call the API requesting highly-sensitive data

Which combination of steps does the Architect need to take to satisfy these operational requirements? (Choose two.)

A. Ensure that CloudTrail is enabled.

B. Create a custom CloudWatch metric to monitor the API for data access.

C. Configure CloudWatch alarms for any metrics the support team requires.

D. Ensure that detailed monitoring for the EC2 instances is enabled.

E. Create an application to export and save CloudWatch metrics for longer term trending analysis.

ANSWER: A C

QUESTION NO: 5

A team has an application that detects new objects being uploaded into an Amazon S3 bucket. The uploads trigger a Lambda function to write object metadata into an Amazon DynamoDB table and RDS PostgreSQL database.

Which action should the team take to ensure high availability?

A. Enable cross-region replication in the Amazon S3 bucket.

B. Create a Lambda function for each Availability Zone the application is deployed in.

C. Enable multi-AZ on the RDS PostgreSQL database.

D. Create a DynamoDB stream for the DynamoDB table.

ANSWER: C

QUESTION NO: 6

A company hosts a two-tier application that consists of a publicly accessible web server that communicates with a private database. Only HTTPS port 443 traffic to the web server must be allowed from the Internet.

Which of the following options will achieve these requirements? (Choose two.)

A. Security group rule that allows inbound Internet traffic for port 443.

B. Security group rule that denies all inbound Internet traffic except port 443.

C. Network ACL rule that allows port 443 inbound and all ports outbound for Internet traffic.

D. Security group rule that allows Internet traffic for port 443 in both inbound and outbound.

E. Network ACL rule that allows port 443 for both inbound and outbound for all Internet traffic.

ANSWER: A E

QUESTION NO: 7

An application generates audit logs of operational activities. Compliance requirements mandate that the application retains the logs for 5 years.

How can these requirements be met?

A. Save the logs in an Amazon S3 bucket and enable Multi-Factor Authentication Delete (MFA Delete) on the bucket.

B. Save the logs in an Amazon EFS volume and use Network File System version 4 (NFSv4) locking with the volume.

C. Save the logs in an Amazon Glacier vault and use the Vault Lock feature.

D. Save the logs in an Amazon EBS volume and take monthly snapshots.

ANSWER: C

QUESTION NO: 8

A website keeps a record of user actions using a globally unique identifier (GUID) retrieved from Amazon Aurora in place of the user name within the audit record. Security protocols state that the GUID content must not leave the company's Amazon VPC.

As the web traffic has increased, the number of web servers and Aurora read replicas has also increased to keep up with the user record reads for the GUID. What should be done to reduce the number of read replicas required while improving performance?

A. Keep the user name and GUID in memory on the web server instance so that the association can be remade on demand. Remove the record after 30 minutes.

B. Deploy a Amazon ElastiCache for Redis server into the infrastructure and store the user name and GUID there. Retrieve the GUID from ElastiCache when required.

C. Encrypt the GUID using Base64 and store it in the user's session cookie. Decrypt the GUID when an audit record is needed.

D. Change the GUID to an MD5 hash of the user name, so that the value can be calculated on demand without referring to the database.

ANSWER: B

Explanation:

Reference: https://aws.amazon.com/elasticache/redis/faqs/

QUESTION NO: 9

Legacy applications currently send messages through a single Amazon EC2 instance, which then routes the messages to the appropriate destinations. The Amazon EC2 instance is a bottleneck and single point of failure, so the company would like to address these issues.

Which services could address this architectural use case? (Choose two.)

A. Amazon SNS

B. AWS STS

C. Amazon SQS

D. Amazon Route 53

E. AWS Glue

ANSWER: A C

QUESTION NO: 10

A company is designing a new application to collect data on user behavior for analysis at a later time. Amazon Kinesis Data Streams will be used to receive user interaction events.

What should be done to ensure the event data is retained indefinitely?

A. Configure the stream to write records to an attached Amazon EBS volume.

B. Configure an Amazon Kinesis Data Firehose delivery stream to store data on Amazon S3.

C. Configure the stream data retention period to retain the data indefinitely.

D. Configure an Amazon EC2 consumer to read from the data stream and store records in Amazon SQS.

ANSWER: B

QUESTION NO: 11

A Solutions Architect is designing the architecture for a new three-tier web-based e-commerce site that must be available 24/7. Requests are expected to range from 100 to 10,000 each minute. Usage can vary depending on time of day, holidays, and promotions. The design should be able to handle these volumes, with the ability to handle higher volumes if necessary.

How should the Architect design the architecture to ensure the web tier is cost-optimized and can handle the expected traffic? (Choose two.)

A. Launch Amazon EC2 instances in an Auto Scaling group behind an ELB.

B. Store all static files in a multi-AZ Amazon Aurora database.

C. Create an CloudFront distribution pointing to static content in Amazon S3.

D. Use Amazon Route 53 to route traffic to the correct region.

E. Use Amazon S3 multi-part uploads to improve upload times.

ANSWER: A C

QUESTION NO: 12

A Solutions Architect is designing a highly-available website that is served by multiple web servers hosted outside of AWS. If an instance becomes unresponsive, the Architect needs to remove it from the rotation.

What is the MOST efficient way to fulfill this requirement?

A. Use Amazon CloudWatch to monitor utilization.

B. Use Amazon API Gateway to monitor availability.

C. Use an Amazon Elastic Load Balancer.

D. Use Amazon Route 53 health checks.

ANSWER: D

QUESTION NO: 13

A Solutions Architect is designing a customer order processing application that will likely have high usage spikes.

What should the Architect do to ensure that customer orders are not lost before being written to an Amazon RDS database? (Choose two.)

A. Use Amazon CloudFront to deliver the application front end.

B. Use Elastic Load Balancing with a round-robin routing algorithm.

C. Have the orders written into an Amazon SQS queue.

D. Scale the number of processing nodes based on pending order volume.

E. Have a standby Amazon RDS instance in a separate Availability Zone.

ANSWER: A C

QUESTION NO: 14

Employees from several companies use an application once a year during a specific 30-day period. The periods are different for each company. Traffic to the application spikes during these 30day periods.

How can the application be designed to handle these traffic spikes?

A. Use an Amazon Route 53 latency routing policy to route traffic to an Amazon EC2 instance with the least lag time.

B. Use Amazon S3 to cache static elements of the website requests.

C. Use an Auto Scaling group to scale the number of EC2 instances to match the site traffic.

D. Use Amazon Cloud Front to serve static assets to decrease the load on the EC2 instances.

ANSWER: A

QUESTION NO: 15

A Solutions Architect is helping a customer migrate an application to AWS. The application is composed of a fleet of Linux servers that currently use a shared file system to read and write data. One of the goals of moving this application to AWS is to increase the reliability of the storage tier.

What solution would increase reliability while minimizing the operational overhead of managing this infrastructure?

A. Create an EBS volume and mount it to all the servers.

B. Create an EFS file system and mount it to all the servers.

C. Create an S3 bucket that can be accessed through an S3 VPC Endpoint.

D. Create two EC2 instances in separate Availability Zones that act as file servers.

ANSWER: B