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AWS Certified Solutions Architect - Associate (SAA-C01)

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

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QUESTION NO: 1

When designing an Amazon SQS message-processing solution, messages in the queue must be processed before the maximum retention time has elapsed.

Which actions will meet this requirement? (Choose two.)

A. Use AWS STS to process the messages

B. Use Amazon EBS-optimized Amazon EC2 instances to process the messages

C. Use Amazon EC2 instances in an Auto Scaling group with scaling triggered based on the queue length

D. Increase the SQS queue attribute for the message retention period

E. Convert the SQS queue to a first-in first-out (FIFO) queue

ANSWER: B D

QUESTION NO: 2

A Solutions Architect is designing a microservice to process records from Amazon Kinesis Streams. The metadata must be stored in Amazon DynamoDB. The microservice must be capable of concurrently processing 10,000 records daily as they arrive in the Kinesis stream.

The MOST scalable way to design the microservice is:

A. As an AWS Lambda function.

B. As a process on an Amazon EC2 instance.

C. As a Docker container running on Amazon ECS.

D. As a Docker container on an EC2 instance.

ANSWER: C

QUESTION NO: 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.

ANSWER: A

QUESTION NO: 4

A company is setting up a new website for online sales. The company will have a web tier and a database tier. The web tier consists of load-balanced, auto-scaled Amazon EC2 instances in multiple Availability Zones (AZs). The database tier is an Amazon RDS Multi-AZ deployment. The EC2 instances must connect securely to the database.

How should the resources be launched?

A. EC2 instances: public subnet
RDS database instances: public subnet
Load balancer: public subnet

B. EC2 instances: public subnet
RDS database instances: private subnet
Load balancer: private subnet

C. EC2 instances: private subnet
RDS database instances: public subnet
Load balancer: public subnet

D. EC2 instances: private subnet
RDS database instances: private subnet
Load balancer: public subnet

ANSWER: D

QUESTION NO: 5

A company uses AWS Elastic Beanstalk to deploy a web application running on c4.large instances. Users are reporting high latency and failed requests. Further investigation reveals that the EC2 instances are running at or near 100% CPU utilization.

What should a Solutions Architect do to address the performance issues?

A. Use time-based scaling to scale the number of instances based on periods of high load.

B. Modify the scaling triggers in Elastic Beanstalk to use the CPUUtilization metric.

C. Swap the c4.large instances with the m4.large instance type.

D. Create an additional Auto Scaling group, and configure Amazon EBS to use both Auto Scaling groups to increase the scaling capacity.

ANSWER: D

QUESTION NO: 6

A company has a web application running in a Docker container that connects to a MySQL server in an on-premises data center. The deployment and maintenance of this application are becoming time-consuming and slowing down new feature releases. The company wants to migrate the application to AWS and use services that helps facilitate infrastructure management and deployment.

Which architectures should the company consider on AWS? (Choose two.)

A. Amazon ECS for the web application, and an Amazon RDS for MySQL for the database.

B. AWS Elastic Beanstalk Docker Multi-container either for the web application or database.

C. AWS Elastic Beanstalk Docker Single Container for the web application, and an Amazon RDS for MySQL for the database.

D. AWS CloudFormation with Lambda Custom Resources without VPC for the web application, and an Amazon RDS for MySQL database.

E. AWS CloudFormation with Lambda Custom Resources running in a VPC for the web application, and an Amazon RDS for MySQL database.

ANSWER: C E

QUESTION NO: 7

A web application stores all data in an Amazon RDS Aurora database instance. A Solutions Architect wants to provide access to the data for a detailed report for the Marketing team, but is concerned that the additional load on the database will affect the performance of the web application.

How can the report be created without affecting the performance of the application?

A. Create a read replica of the database.

B. Provision a new RDS instance as a secondary master.

C. Configure the database to be in multiple regions.

D. Increase the number of provisioned storage IOPS.

ANSWER: A

QUESTION NO: 8

A company expects its user base to increase five times over one year. Its application is hosted in one region and uses an Amazon RDS MySQL database, an ELB Application Load Balancer, and Amazon ECS to host the website and its microservices.

Which design changes should a Solutions Architect recommend to support the expected growth? (Choose two.)

A. Move static files from ECS to Amazon S3

B. Use an Amazon Route 53 geolocation routing policy

C. Scale the environment based on real-time AWS CloudTrail logs

D. Create a dedicated Elastic Load Balancer for each microservice

E. Create RDS read replicas and change the application to use these replicas

ANSWER: A E

QUESTION NO: 9

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: 10

A customer has an application that is used by enterprise customers outside of AWS. Some of these customers use legacy firewalls that cannot whitelist by DNS name, but whitelist based only on IP address. The application is currently deployed in two Availability Zones, with one EC2 instance in each that has Elastic IP addresses. The customer wants to whitelist only two IP addresses, but the two existing EC2 instances cannot sustain the amount of traffic.

What can a Solutions Architect do to support the customer and allow for more capacity? (Choose two.)

A. Create a Network Load Balancer with an interface in each subnet, and assign a static IP address to each subnet.

B. Create additional EC2 instances and put them on standby. Remap an Elastic IP address to a standby instance in the event of a failure.

C. Use Amazon Route 53 with a weighted, round-robin routing policy across the Elastic IP addresses to resolve one at a time.

D. Add additional EC2 instances with Elastic IP addresses, and register them with Amazon Route 53

E. Switch the two existing EC2 instances for an Auto Scaling group, and register them with the Network Load Balancer.

ANSWER: B C

QUESTION NO: 11

A Solutions Architect is designing a web application that will be hosted on Amazon EC2 instances in a public subnet. The web application uses a MySQL database in a private subnet. The database should be accessible to database administrators.

Which of the following options should the Architect recommend? (Choose two.)

A. Create a bastion host in a public subnet, and use the bastion host to connect to the database.

B. Log in to the web servers in the public subnet to connect to the database.

C. Perform DB maintenance after using SSH to connect to the NAT Gateway in a public subnet.

D. Create an IPSec VPN tunnel between the customer site and the VPC, and use the VPN tunnel to connect to the database.

E. Attach an Elastic IP address to the database.

ANSWER: B D

QUESTION NO: 12

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

ANSWER: A

Explanation:

Reference: https://aws.amazon.com/s3/features/#Access_management_and_security

QUESTION NO: 13

A Solutions Architect is asked to improve the fault tolerance of an existing Python application. The web application places 1-MB images in an S3 bucket. The application then uses a single t2.large instance to transform the image to include a watermark with the company's brand before writing the image back to the S3 bucket.

What should the Solutions Architect recommend to increase the fault tolerance of the solution?

A. Convert the code to a Lambda function triggered by scheduled Amazon CloudWatch Events.

B. Increase the instance size to m4.xlarge and configure Enhanced Networking.

C. Convert the code to a Lambda function triggered by Amazon S3 events.

D. Create an Amazon SQS queue to send the images to the t2.large instance.

ANSWER: C

QUESTION NO: 14

A social networking portal experiences latency and throughput issues due to an increased number of users. Application servers use very large datasets from an Amazon RDS database, which creates a performance bottleneck on the database.

Which AWS service should be used to improve performance?

A. Auto Scaling

B. Amazon SQS

C. Amazon ElastiCache

D. ELB Application Load Balancer

ANSWER: C

QUESTION NO: 15

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