SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A solution architect must create a disaster recovery (DR) plan for a high-volume software as a service (SaaS) platform. All data for the platform is stored in an Amazon Aurora MySQL DB cluster.

The DR plan must replcate data to a secondary AWS Region.

Which solution will meet these requirements MOST cost-effectively?

Use MySQL binary log replication to an Aurora cluster

A. Use MySQL binary log replication to an Aurora cluster in the secondary Region Provision one DB instance for the Aurora cluster in the secondary Region.

B. Set up an Aurora global database for the DB cluster. When setup is complete, remove the DB instance from the secondary Region.

C. Use AWS Database Migration Service (AWS QMS) to continuously replicate data to an Aurora cluster in the secondary Region Remove theDB instance from the secondary Region.

D. Set up an Aurora global database for the DB cluster Specify a minimum of one DB instance in the secondary Region

Correct Answer: D

QUESTION 2

A company is migrating an application from on-premises servers to Amazon EC2 instances. As part of the migration design requirements, a solutions architect must implement infrastructure metric alarms. The company does not need to take action if CPU utilization increases to more than 50% for a short burst of time. However, if the CPU utilization increases to more than 50% and read IOPS on the disk are high at the same time, the company needs to act as soon as possible. The solutions architect also must reduce false alarms.

What should the solutions architect do to meet these requirements?

A. Create Amazon CloudWatch composite alarms where possible.

B. Create Amazon CloudWatch dashboards to visualize the metrics and react to issues quickly.

C. Create Amazon CloudWatch Synthetics canaries to monitor the application and raise an alarm.

D. Create single Amazon CloudWatch metric alarms with multiple metric thresholds where possible.

Correct Answer: A

QUESTION 3

A company has an Amazon S3 bucket that contains critical data. The company must protect the data from accidental deletion.

Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

A. Enable versioning on the S3 bucket.

B. Enable MFA Delete on the S3 bucket.

C. Create a bucket policy on the S3 bucket.

D. Enable default encryption on the S3 bucket.

E. Create a lifecycle policy for the objects in the S3 bucket.

Correct Answer: AB

QUESTION 4

A company has a data ingestion workflow that consists the following:

An Amazon Simple Notification Service (Amazon SNS) topic for notifications about new data deliveries An AWS Lambda function to process the data and record metadata

The company observes that the ingestion workflow fails occasionally because of network connectivity issues. When such a failure occurs, the Lambda function does not ingest the corresponding data unless the company manually reruns the job.

Which combination of actions should a solutions architect take to ensure that the Lambda function ingests all data in the future? (Select TWO.)

A. Configure the Lambda function In multiple Availability Zones.

B. Create an Amazon Simple Queue Service (Amazon SQS) queue, and subscribe It to me SNS topic.

C. Increase the CPU and memory that are allocated to the Lambda function.

D. Increase provisioned throughput for the Lambda function.

E. Modify the Lambda function to read from an Amazon Simple Queue Service (Amazon SQS) queue

Correct Answer: BE

QUESTION 5

A company runs a containerized application on a Kubernetes cluster in an on-premises data center. The company is using a MongoDB database for data storage.

The company wants to migrate some of these environments to AWS, but no code changes or deployment method changes are possible at this time. The company needs a solution that minimizes operational overhead.

Which solution meets these requirements?

A. Use Amazon Elastic Container Service (Amazon ECS) with Amazon EC2 worker nodes for compute and MongoDB on EC2 for data storage.

B. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate for compute and Amazon DynamoDB for data storage.

C. Use Amazon Elastic Kubernetes Service (Amazon EKS) with Amazon EC2 worker nodes for compute and Amazon DynamoDB for data storage.

D. Use Amazon Elastic Kubernetes Service (Amazon EKS) with AWS Fargate for compute and Amazon DocumentDB (with MongoDB compatibility) for data storage.

Correct Answer: D

Amazon DocumentDB (with MongoDB compatibility) is a fast, reliable, and fully managed database service. Amazon DocumentDB makes it easy to set up, operate, and scale MongoDB-compatible databases in the cloud. With Amazon DocumentDB, you can run the same application code and use the same drivers and tools that you use with MongoDB. https://docs.aws.amazon.com/documentdb/latest/developerguide/what-is.html

QUESTION 6

A company needs to transfer 600 TB of data from its on-premises network-attached storage (NAS) system to the AWS Cloud. The data transfer must be complete within 2 weeks. The data is sensitive and must be encrypted in transit. The company\\'s internet connection can support an upload speed of 100 Mbps.

Which solution meets these requirements MOST cost-effectively?

A. Use Amazon S3 multi-part upload functionality to transfer the fees over HTTPS

B. Create a VPN connection between the on-premises NAS system and the nearest AWS Region Transfer the data over the VPN connection

C. Use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices Use the devices to transfer the data to Amazon S3.

D. Set up a 10 Gbps AWS Direct Connect connection between the company location and (he nearest AWS Region Transfer the data over a VPN connection into the Region to store the data in Amazon S3

Correct Answer: D

QUESTION 7

A company has a three-tier environment on AWS that ingests sensor data from its users\\' devices The traffic flows through a Network Load Balancer (NIB) then to Amazon EC2 instances for the web tier and finally to EC2 instances for the application tier that makes database calls.

What should a solutions architect do to improve the security of data in transit to the web tier?

A. Configure a TLS listener and add the server certificate on the NLB

B. Configure AWS Shield Advanced and enable AWS WAF on the NLB

C. Change the load balancer to an Application Load Balancer and attach AWS WAF to it

D. Encrypt the Amazon Elastic Block Store (Amazon EBS) volume on the EC2 instances using AWS Key Management Service (AWS KMS)

Correct Answer: A

QUESTION 8

A company is developing an application that provides order shipping statistics for retrieval by a REST API. The company wants to extract the shipping statistics, organize the data into an easy-to-read HTML format, and send the report to several email addresses at the same time every morning.

Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

A. Configure the application to send the data to Amazon Kinesis Data Firehose.

B. Use Amazon Simple Email Service (Amazon SES) to format the data and to send the report by email.

C. Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled event that invokes an AWS Glue job to query the application\\'s API for the data.

D. Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled event that invokes an AWS Lambda function to query the application\\'s API for the data.

E. Store the application data in Amazon S3. Create an Amazon Simple Notification Service (Amazon SNS) topic as an S3 event destination to send the report by

Correct Answer: DE

QUESTION 9

A company has registered its domain name with Amazon Route 53. The company uses Amazon API Gateway in the ca-central-1 Region as a public interface for its backend microservice APIs. Third-party services consume the APIs securely. The company wants to design its API Gateway URL with the company\\'s domain name and corresponding certificate so that the third-party services can use HTTPS.

Which solution will meet these requirements?

A. Create stage variables in API Gateway with Name="Endpoint-URL" and Value="Company Domain Name" to overwrite the default URL. Import the public certificate associated with the company\\'s domain name into AWS Certificate Manager (ACM).

B. Create Route 53 DNS records with the company\\'s domain name. Point the alias record to the Regional API Gateway stage endpoint. Import the public certificate associated with the company\\'s domain name into AWS Certificate Manager (ACM) in the us-east-1 Region.

C. Create a Regional API Gateway endpoint. Associate the API Gateway endpoint with the company\\'s domain name. Import the public certificate associated with the company\\'s domain name into AWS Certificate Manager (ACM) in the same Region. Attach the certificate to the API Gateway endpoint. Configure Route 53 to route traffic to the API Gateway endpoint.

D. Create a Regional API Gateway endpoint. Associate the API Gateway endpoint with the company\\'s domain name. Import the public certificate associated with the company\\'s domain name into AWS Certificate Manager (ACM) in the useast-1 Region. Attach the certificate to the API Gateway APIs. Create Route 53 DNS records with the company\\'s domain name. Point an A record to the company\\'s domain name.

Correct Answer: D

QUESTION 10

A company recently launched a variety of new workloads on Amazon EC2 instances in its AWS account. The company needs to create a strategy to access and administer the instances remotely and securely. The company needs to implement a repeatable process that works with native AWS services and follows the AWS Well-Architected Framework.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use the EC2 serial console to directly access the terminal interface of each instance for administration.

B. Attach the appropriate IAM role to each existing instance and new instance. Use AWS Systems Manager Session Manager to establish a remote SSH session.

C. Create an administrative SSH key pair. Load the public key into each EC2 instance. Deploy a bastion host in a public subnet to provide a tunnel for administration of each instance.

D. Establish an AWS Site-to-Site VPN connection. Instruct administrators to use their local on-premises machines to connect directly to the instances by using SSH keys across the VPN tunnel.

Correct Answer: B

https://docs.aws.amazon.com/systems-manager/latest/userguide/setup-launch-managed-instance.html

QUESTION 11

A company is moving its data management application to AWS. The company wants to transition to an event-driven architecture. The architecture needs to the more distributed and to use serverless concepts whit performing the different aspects of the workflow. The company also wants to minimize operational overhead.

Which solution will meet these requirements?

A. Build out the workflow in AWS Glue Use AWS Glue to invoke AWS Lambda functions to process the workflow slaps

B. Build out the workflow in AWS Step Functions Deploy the application on Amazon EC2 Instances Use Step Functions to invoke the workflow steps on the EC2 instances

C. Build out the workflow in Amazon EventBridge. Use EventBridge to invoke AWS Lambda functions on a schedule to process the workflow steps.

D. Build out the workflow m AWS Step Functions Use Step Functions to create a stale machine Use the stale machine to invoke AWS Lambda functions to process the workflow steps

Correct Answer: C

QUESTION 12

An image-processing company has a web application that users use to upload images. The application uploads the images into an Amazon S3 bucket. The company has set up S3 event notifications to publish the object creation events to an Amazon Simple Queue Service (Amazon SQS) standard queue. The SQS queue serves as the event source for an AWS Lambda function that processes the images and sends the results to users through email.

Users report that they are receiving multiple email messages for every uploaded image. A solutions architect determines that SQS messages are invoking the Lambda function more than once, resulting in multiple email messages.

What should the solutions architect do to resolve this issue with the LEAST operational overhead?

A. Set up long polling in the SQS queue by increasing the ReceiveMessage wait time to 30 seconds.

B. Change the SQS standard queue to an SQS FIFO queue. Use the message deduplication ID to discard duplicate messages.

C. Increase the visibility timeout in the SQS queue to a value that is greater than the total of the function timeout and the batch window timeout.

D. Modify the Lambda function to delete each message from the SQS queue immediately after the message is read before processing.

Correct Answer: C

QUESTION 13

A company will deployed a web application on AWS. The company hosts the backend database on Amazon RDS for MySQL with a primary DB instance and five read replicas to support scaling needs. The read replicas must log no more than 1 second bahind the primary DB Instance. The database routinely runs scheduled stored procedures.

As traffic on the website increases, the replicas experinces addtional lag during periods of peak lead. A solutions architect must reduce the replication lag as much as possible. The solutions architect must minimize changes to the applicatin code and must minimize ongoing overhead.

Which solution will meet these requirements?

A. Migrate the database to Amazon Aurora MySQL. Replace the read replicas with Aurora Replicas, and configure Aurora Auto Scaling. Replace the stored procedures with Aurora MySQL native functions.

B. Deploy an Amazon ElasticCache for Redis cluser in front of the database. Modify the application to check the cache before the application queries the database. Repace the stored procedures with AWS Lambda funcions.

C. Migrate the database to a MYSQL database that runs on Amazn EC2 instances. Choose large, compute optimized for all replica nodes. Maintain the stored procedures on the EC2 instances.

D. Deploy an Amazon ElastiCache for Redis cluster in fornt of the database. Modify the application to check the cache before the application queries the database. Replace the stored procedures with AWS Lambda functions.

E. Migrate the database to a MySQL database that runs on Amazon EC2 instances. Choose large, compute optimized EC2 instances for all replica nodes, Maintain the stored procedures on the EC2 instances.

F. Migrate the database to Amazon DynamoDB, Provision number of read capacity units (RCUs) to support the required throughput, and configure on-demand capacity scaling. Replace the stored procedures with DynamoDB streams.

Correct Answer: A

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