

# SAA-C02<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C02)

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### QUESTION 1

A company is preparing to deploy a new serverless workload. A solutions architect needs to configure permissions for invoking an AWS Lambda function. The function will be triggered by an Amazon EventBridge (Amazon CloudWatch Events) rule. Permissions should be configured using the principle of least privilege.

Which solution will meet these requirements?

- A. Add an execution role to the function with `lambda:InvokeFunction` as the action and `*` as the principal.
- B. Add an execution role to the function with `lambda:InvokeFunction` as the action and `Service:eventsamazonaws.com` as the principal.
- C. Add a resource-based policy to the function with `lambda:*` as the action and `Service:events.amazonaws.com` as the principal.
- D. Add a resource-based policy to the function with `lambda:InvokeFunction` as the action and `Service:events.amazonaws.com` as the principal.

Correct Answer: B

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### QUESTION 2

A company has an ordering application that stores customer information in Amazon RDS for MySQL. During regular business hours, employees run one-time queries for reporting purposes. Timeouts are occurring during order processing because the reporting queries are taking a long time to run. The company needs to eliminate the timeouts without preventing employees from performing queries.

What should a solutions architect do to meet those requirements?

- A. Create a read replica. Move reporting queries to the read replica.
- B. Create a read replica. Distribute the ordering application to the primary DB instance and the read replica.
- C. Migrate the ordering application to Amazon DynamoDB with on-demand capacity.
- D. Schedule the reporting queries for non-peak hours.

Correct Answer: B

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### QUESTION 3

A company is preparing to migrate its on-premises application to AWS. The application consists of application servers and a Microsoft SQL Server database. The database cannot be migrated to a different engine because SQL Server features are used in the application's .NET code. The company wants to attain the greatest availability possible while minimizing operational and management overhead.

What should a solutions architect do to accomplish this?

- A. Install SQL Server on Amazon EC2 in a Multi-AZ deployment
- B. Migrate the data to Amazon RDS for SQL Server in a Multi-AZ deployment.
- C. Deploy the database on Amazon RDS for SQL Server with Multi-AZ Replicas.
- D. Migrate the data to Amazon RDS for SQL Server in a cross Region Multi-AZ deployment

Correct Answer: B

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#### QUESTION 4

A company has a custom application with embedded credentials that retrieves information from an Amazon RDS MySQL DB instance. Management says the application must be made more secure with the least amount of programming effort.

What should a solutions architect do to meet these requirements?

- A. Use AWS Key Management Service (AWS KMS) customer master keys (CMKs) to create keys. Configure the application to load the database credentials from AWS KMS. Enable automatic key rotation.
- B. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Secrets Manager. Configure the application to load the database credentials from Secrets Manager. Create an AWS Lambda function that rotates the credentials in Secret Manager.
- C. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Secrets Manager. Configure the application to load the database credentials from Secrets Manager. Set up a credentials rotation schedule for the application user in the RDS for MySQL database using Secrets Manager.
- D. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Systems Manager Parameter Store. Configure the application to load the database credentials from Parameter Store. Set up a credentials rotation schedule for the application user in the RDS for MySQL database using Parameter Store.

Correct Answer: B

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#### QUESTION 5

A company is building a web application that servers a content management system. The content management system runs on Amazon EC2 instances behind an application Load Balancer (ALB). The EC2 instances run in an Auto Scaling group across Availability Zones. Users are constantly adding and updating files, blogs, and other website assets in the content management system.

A solutions architect must implement a solution in which all the EC2 instances share up-to- date website content with the least possible lag time.

Which solution meets these requirements?

- A. Update the EC2 user data in the Auto Scaling group lifecycle policy to copy the website assets from the EC2 instance

that was launched most recently. Configure the ALB to make changes to the websites assets only in the newest EC2 instance.

B. Copy the website assets to an Amazon Elastic File System (Amazon EFS) Me system Configure each EC2 instance to mount the EFS m system locally. Configure the website hosting application to reference the website assets that are stored in the EFS file system.

C. Copy the website assets to an Amazon S3 bucket Ensure that each EC2 instance downloads the website assets from the S3 bucket to the attached Amazon Basic Block Store (Amazon EBS) volume.Run the S3 sync command once each hour to keep files up to date.

D. Restore an Amazon Elastic Block Store (Amazon EBS) snapshot w.th the website assets. Attach the EBS snapshot as a secondary EBS volume when a new EBS EC2 instance is launched. Configure the website hosting application to reference the website assets that are stored in the secondary EBS volume.

Correct Answer: B

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## QUESTION 6

A solutions architect is designing a customer-facing application. The application is expected to have a variable amount of reads and writes depending on the time of year and clearly defined access patterns throughout the year. Management

requires that database auditing and scaling be managed in the AWS Cloud. The Recovery Point Objective (RPO) must be less than 5 hours.

Which solutions can accomplish this? (Select TWO.)

A. Use Amazon DynamoDB with auto scaling. Use on-demand backups and AWS CloudTrail.

B. Use Amazon DynamoDB with auto scaling. Use on-demand backups and Amazon DynamoDB Streams.

C. Use Amazon Redshift Configure concurrency scaling. Enable audit logging. Perform database snapshots every 4 hours.

D. Use Amazon RDS with Provisioned IOPS. Enable the database auditing parameter. Perform database snapshots every 5 hours.

E. Use Amazon RDS with auto scaling. Enable the database auditing parameter. Configure the backup retention period to at least 1 day.

Correct Answer: AB

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## QUESTION 7

A media company is evaluating the possibility of moving its systems to the AWS Cloud. The company needs at least 10 TB of storage with the maximum possible I/O performance for video processing. 300 TB of very durable storage for storing media content, and 900 TB of storage to meet requirements for archival media that is not in use anymore. Which set of services should a solutions architect recommend to meet these requirements?

A. Amazon EBS for maximum performance, Amazon S3 for durable data storage, and Amazon S3 Glacier for archival

storage

- B. Amazon EBS for maximum performance, Amazon EFS for durable data storage, and Amazon S3 Glacier for archival storage
- C. Amazon EC2 instance store for maximum performance, Amazon EFS for durable data storage, and Amazon S3 for archival storage
- D. Amazon EC2 instance store for maximum performance, Amazon S3 for durable data storage, and Amazon S3 Glacier for archival storage

Correct Answer: A

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### QUESTION 8

A company runs a web-based portal that provides users with global breaking news, local alerts, and weather updates. The portal delivers each user a personalized view by using a mixture of static and dynamic content. Content is served over HTTPS through an API server running on an Amazon EC2 instance behind an Application Load Balancer (ALB). The company wants the portal to provide this content to its users across the world as quickly as possible.

How should a solutions architect design the application to ensure the LEAST amount of latency for all users?

- A. Deploy the application stack in a single AWS Region. Use Amazon CloudFront to serve all static and dynamic content by specifying the ALB as an origin.
- B. Deploy the application stack in two AWS Regions. Use an Amazon Route 53 latency routing policy to serve all content from the ALB in the closest Region.
- C. Deploy the application stack in a single AWS Region. Use Amazon CloudFront to serve the static content. Serve the dynamic content directly from the ALB.
- D. Deploy the application stack in two AWS Regions. Use an Amazon Route 53 geolocation routing policy to serve all content from the ALB in the closest Region.

Correct Answer: A

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### QUESTION 9

A company needs to implement a relational database with a multi-Region disaster recovery. Recovery Point Objective (RPO) of 1 second and an Recovery Time Objective (RTO) of 1 minute. Which AWS solution can achieve this?

- A. Amazon Aurora Global Database
- B. Amazon DynamoDB global tables.
- C. Amazon RDS for MySQL with Multi-AZ enabled.
- D. Amazon RDS for MySQL with a cross-Region snapshot copy.

Correct Answer: A

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### QUESTION 10

A solutions architect is redesigning a monolithic application to be a loosely coupled application composed of two microservices: Microservice A and Microservice B. Microservice A places messages in a main Amazon Simple Queue Service (Amazon SQS) queue for Microservice B to consume. When Microservice B fails to process a message after four retries, the message needs to be removed from the queue and stored for further investigation.

What should the solutions architect do to meet these requirements?

- A. Create an SQS dead-letter queue. Microservice B adds failed messages to that queue after it receives and fails to process the message four times.
- B. Create an SQS dead-letter queue. Configure the main SQS queue to deliver messages to the dead-letter queue after the message has been received four times.
- C. Create an SQS queue for failed messages. Microservice A adds failed messages to that queue after Microservice B receives and fails to process the message four times.
- D. Create an SQS queue for failed messages. Configure the SQS queue for failed messages to pull messages from the main SQS queue after the original message has been received four times.

Correct Answer: B

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-dead-letter-queues.html#sqs-dead-letter-queues-how-they-work>

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### QUESTION 11

A company is running a web application on Amazon EC2 instances in an Auto Scaling group. The application uses a database that runs on an Amazon RDS for PostgreSQL DB instance. The application performs slowly as traffic increases, and the database experiences a heavy read load during periods of high traffic.

Which actions should a solutions architect take to resolve these performance issues? (Select TWO.)

- A. Enable auto scaling for the DB instance.
- B. Create a read replica for the DB instance. Configure the application to send read traffic to the read replica.
- C. Enable Multi-AZ for the DB instance. Configure the application to send read traffic to the standby DB instance.
- D. Create an Amazon ElastiCache cluster. Configure the application to cache query results in the ElastiCache cluster.
- E. Configure the Auto Scaling group subnets to ensure that the EC2 instances are provisioned in the same Availability Zone as the DB instance.

Correct Answer: BD

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### QUESTION 12

An ecommerce company has an order-processing application that uses Amazon API Gateway and an AWS Lambda function. The application stores data in an Amazon Aurora PostgreSQL database. During a recent sales event, a sudden surge in customer orders occurred. Some customers experienced timeouts and the application did not process the orders of those customers. A solutions architect determined that the CPU utilization and memory utilization were high on the database because of a large number of open connections. The solutions architect needs to prevent the timeout errors while making the least possible changes to the application.

Which solution will meet these requirements?

- A. Configure provisioned concurrency for the Lambda function. Modify the database to be a global database in multiple AWS Regions.
- B. Use Amazon RDS Proxy to create a proxy for the database. Modify the Lambda function to use the RDS Proxy endpoint instead of the database endpoint.
- C. Create a read replica for the database in a different AWS Region. Use query string parameters in API Gateway to route traffic to the read replica.
- D. Migrate the data from Aurora PostgreSQL to Amazon DynamoDB by using AWS Database Migration Service (AWS DMS). Modify the Lambda function to use the DynamoDB table.

Correct Answer: D

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### QUESTION 13

A solutions architect plans to convert a company's monolithic web application into a multi-tier application. The company wants to avoid managing its own infrastructure. The minimum requirements for the web application are high availability, scalability, and regional low latency during peak hours. The solution should also store and retrieve data with millisecond latency using the application's API.

Which solution meets these requirements?

- A. Use AWS Fargate to host the web application with backend Amazon RDS Multi-AZ DB instances.
- B. Use Amazon API Gateway with an edge-optimized API endpoint, AWS Lambda for compute and Amazon DynamoDB as the data store.
- C. Use an Amazon Route 53 routing policy with geolocation that points to an Amazon S3 bucket with static website hosting and Amazon DynamoDB as the data store.
- D. Use an Amazon CloudFront distribution that points to an Elastic Load Balancer with an Amazon EC2 Auto Scaling group, along with Amazon RDS Multi-AZ DB instances.

Correct Answer: B

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### QUESTION 14

A company hosts a website on Amazon EC2 instances behind an Application Load Balancer (ALB). The website serves static content. Website traffic is increasing, and the company is concerned about a potential increase in cost. What should a solutions architect do to reduce the cost of the website?

- A. Create an Amazon CloudFront distribution to cache static files at edge locations.
- B. Create an Amazon ElastiCache cluster. Connect the ALB to the ElastiCache cluster to serve cached files.
- C. Create an AWS WAF web ACL, and associate it with the ALB. Add a rule to the web ACL to cache static files.
- D. Create a second ALB in an alternative AWS Region. Route user traffic to the closest Region to minimize data transfer costs.

Correct Answer: C

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#### QUESTION 15

An application is running on Amazon EC2 instances. Sensitive information required for the application is stored in an Amazon S3 bucket. The bucket needs to be protected from internet access while only allowing services within the VPC access to the bucket. Which combination of actions should a solutions architect take to accomplish this? (Select TWO.)

- A. Create a VPC endpoint for Amazon S3.
- B. Enable server access logging on the bucket.
- C. Apply a bucket policy to restrict access to the S3 endpoint.
- D. Add an S3 ACL to the bucket that has sensitive information.
- E. Restrict users using the IAM policy to use the specific bucket.

Correct Answer: AC

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