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# AWS Certified Solutions Architect - Associate (SAA-C02)

## Amazon AWS AWS-Certified-Solutions-Architect-Associate-SAA-C02

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## QUESTION NO: 1

A company has primary and secondary data centers that are 500 miles (804.7 km) apart and interconnected with high-speed fiber-optic cable. The company needs a highly available and secure network connection between its data centers and a VPC on AWS for a mission-critical workload. A solutions architect must choose a connection solution that provides maximum resiliency.

Which solution meets these requirements?

**A.** Two AWS Direct Connect connections from the primary data center terminating at two Direct Connect locations on two separate devices

**B.** A single AWS Direct Connect connection from each of the primary and secondary data centers terminating at one Direct Connect location on the same device

**C.** Two AWS Direct Connect connections from each of the primary and secondary data centers terminating at two Direct Connect locations on two separate devices

**D.** A single AWS Direct Connect connection from each of the primary and secondary data centers terminating at one Direct Connect location on two separate devices
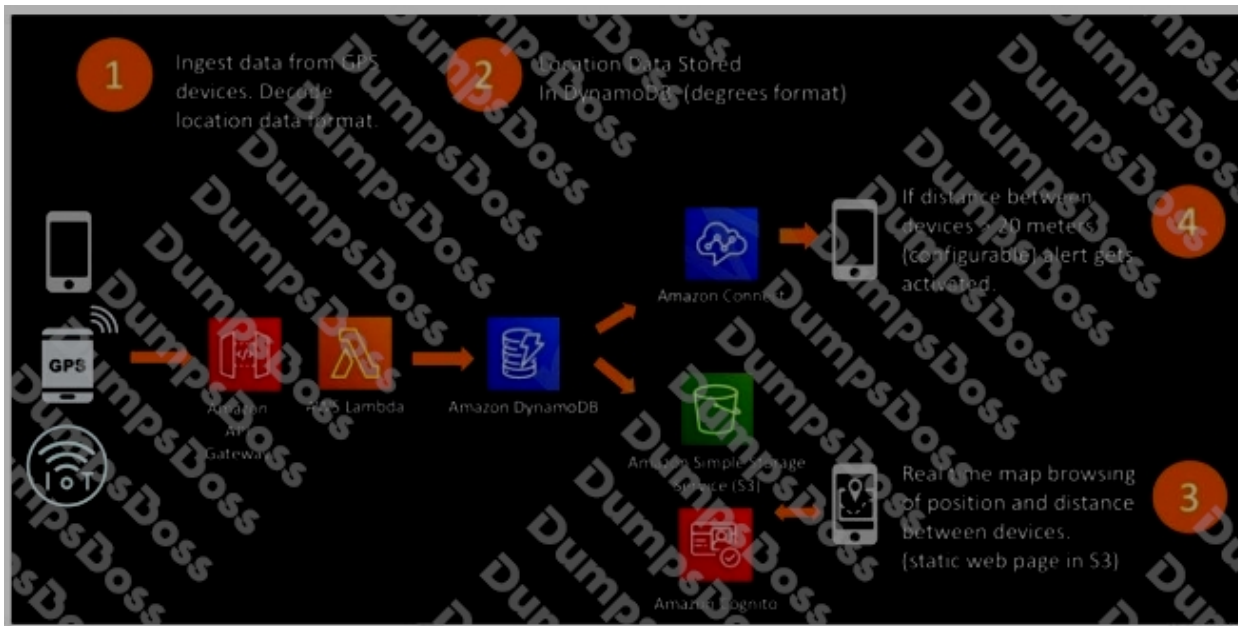
**ANSWER: D**

## QUESTION NO: 2

A trucking company is deploying an application that will track the GPS coordinates of all the company's trucks. The company needs a solution that will generate real-time statistics based on metadata lookups with high read throughput and microsecond latency. The database must be fault tolerant and must minimize operational overhead and development effort. Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

**A.** Use Amazon DynamoDB as the database.

**B.** Use Amazon Aurora MySQL as the database.

**C.** Use Amazon RDS for MySQL as the database

**D.** Use Amazon ElastiCache as the caching layer.

**E.** Use Amazon DynamoDB Accelerator (DAX) as the caching layer.

**ANSWER: A B**

**Explanation:**

Reference: https://aws.amazon.com/blogs/publicsector/creating-a-serverless-gps-monitoring-and-alerting-solution/
https://aws.amazon.com/rds/aurora/customers/

A company has established a new AWS account. The account is newly provisioned and no changed have been made to the default settings. The company is concerned about the security of the AWS account root user.

What should be done to secure the root user?

**A.** Create IAM users for daily administrative tasks. Disable the root user.

**B.** Create IAM users for daily administrative tasks. Enable multi-factor authentication on the root user.

**C.** Generate an access key for the root user. Use the access key for daily administration tasks instead of the AWS Management Console.

**D.** Provide the root user credentials to the most senior solutions architect. Have the solutions architect use the root user for daily administration tasks.

**ANSWER: B**

A company hosts its static website content from an Amazon S3 bucket in the us-east-1 Region. Content is made available through an Amazon CloudFront origin pointing to that bucket. Cross-Region replication is set to create a second copy of the bucket in the ap-southeast-1 Region. Management wants a solution that provides greater availability for the website. Which combination of actions should a solutions architect take to increase availability? (Choose two.)

**A.** Add both buckets to the CloudFront origin.

**B.** Configure failover routing in Amazon Route 53.

**C.** Create a record in Amazon Route 53 pointing to the replica bucket.

**D.** Create an additional CloudFront origin pointing to the ap-southeast-1 bucket.

**E.** Set up a CloudFront origin group with the us-east-1 bucket as the primary and the ap-southeast-1 bucket as the secondary.

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**ANSWER: B E**

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## QUESTION NO: 5

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

Which action should the team take to ensure high availability?

**A.** Enable Cross-Region Replication in the S3 bucket.

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

**C.** Enable Multi-AZ on the RDS for PostgreSQL database.

**D.** Create a DynamoDB stream for the DynamoDB table.

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**ANSWER: C**

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## QUESTION NO: 6

A company is developing an ecommerce application that will consist of a load-balanced front end, a container-based application, and a relational database. A solutions architect needs to create a highly available solution that operates with as little manual intervention as possible.

Which solutions meet these requirements? (Choose two.)

**A.** Create an Amazon RDS DB instance in Multi-AZ mode.

**B.** Create an Amazon RDS DB instance and one or more replicas in another Availability Zone.

**C.** Create an Amazon EC2 instance-based Docker cluster to handle the dynamic application load.

**D.** Create an Amazon Elastic Container Service (Amazon ECS) cluster with a Fargate launch type to handle the dynamic application load.

**E.** Create an Amazon Elastic Container Service (Amazon ECS) cluster with an Amazon EC2 launch type to handle the dynamic application load.

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**ANSWER: A D**

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**Explanation:**

Reference: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReadRepl.html

## QUESTION NO: 7

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.

**ANSWER: B**

## QUESTION NO: 8

A company's application is running on Amazon EC2 instances within an Auto Scaling group behind an Elastic Load Balancer Based on the application's history the company anticipates a spike m traffic during a holiday each year A solutions architect must design a strategy to ensure that the Auto Scaling group proactively increases capacity to minimize any performance impact on application users.

Which solution will meet these requirements?

**A.** Create an Amazon CloudWatch alarm to scale up the EC2 instances when CPU utilization exceeds 90%.

**B.** Create a recurring scheduled action to scale up the Auto Scaling group before the expected period of peak demand.

**C.** increase the minimum and maximum number of EC2 instances in the Auto Scaling group during the peak demand period

**D.** Configure an Amazon Simple Notification Service (Amazon SNS) notification to send alerts when there are autoscaling EC2_INSTANCE_LAUNCH events

**ANSWER: B**

## QUESTION NO: 9

A company runs a static website through its on-premises data center. The company has multiple servers that handle all of its traffic, but on busy days, services are interrupted and the website becomes unavailable. The company wants to expand its presence globally and plans to triple its website traffic.

What should a solutions architect recommend to meet these requirements?

**A.** Migrate the website content to Amazon S3 and host the website on Amazon CloudFront.

**B.** Migrate the website content to Amazon EC2 instances with public Elastic IP addresses in multiple AWS Regions.

**C.** Migrate the website content to Amazon EC2 instances and vertically scale as the load increases.

**D.** Use Amazon Route 53 to distribute the loads across multiple Amazon CloudFront distributions for each AWS Region that exists globally.

**ANSWER: D**

## QUESTION NO: 10

A company's operations team has an existing Amazon S3 bucket configured to notify an Amazon SQS queue when new objects are created within the bucket. The development team also wants to receive events when new objects are created. The existing operations team workflow must remain intact.

Which solution would satisfy these requirements?

**A.** Create another SQS queue. Update the S3 events in the bucket to also update the new queue when a new object is created.

**B.** Create a new SQS queue that only allows Amazon S3 to access the queue. Update Amazon S3 to update this queue when a new object is created.

**C.** Create an Amazon SNS topic and SQS queue for the bucket updates. Update the bucket to send events to the new topic. Updates both queues to poll Amazon SNS.

**D.** Create an Amazon SNS topic and SQS queue for the bucket updates. Update the bucket to send events to the new topic. Add subscriptions for both queues in the topic.

**ANSWER: D**

## QUESTION NO: 11

A company runs its two-tier ecommerce website on AWS. The web tier consists of a load balancer that sends traffic to Amazon EC2 instances. The database tier uses an Amazon RDS DB instance. The EC2 instances and the RDS DB instance should not be exposed to the public internet. The EC2 instances require internet access to complete payment processing of orders through a third-party web service. The application must be highly available.

Which combination of configuration options will meet these requirements? (Choose two.)

**A.** Use an Auto Scaling group to launch the EC2 instances in private subnets. Deploy an RDS Multi-AZ DB instance in private subnets.

**B.** Configure a VPC with two private subnets and two NAT gateways across two Availability Zones. Deploy an Application Load Balancer in the private subnets.

**C.** Use an Auto Scaling group to launch the EC2 instances in public subnets across two Availability Zones. Deploy an RDS Multi-AZ DB instance in private subnets.

**D.** Configure a VPC with one public subnet, one private subnet, and two NAT gateways across two Availability Zones. Deploy an Application Load Balancer in the public subnet.

**E.** Configure a VPC with two public subnets, two private subnets, and two NAT gateways across two Availability Zones. Deploy an Application Load Balancer in the public subnets.

**ANSWER: A B**

## QUESTION NO: 12

A company wants to migrate its accounting system from an on-premises data center to the AWS Cloud in a single AWS Region. Data security and an immutable audit log are the top priorities. The company must monitor all AWS activities for compliance auditing. The company has enabled AWS CloudTrail but wants to make sure it meets these requirements. Which actions should a solutions architect take to protect and secure CloudTrail? (Choose two.)

**A.** Enable CloudTrail log file validation.

**B.** Install the CloudTrail Processing Library.

**C.** Enable logging of Insights events in CloudTrail.

**D.** Enable custom logging from the on-premises resources.

**E.** Create an AWS Config rule to monitor whether CloudTrail is configured to use server-side encryption with AWS KMS managed encryption keys (SSE-KMS).

**ANSWER: A C**

## QUESTION NO: 13

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.

**ANSWER: B**

## QUESTION NO: 14

A company is planning to migrate its virtual server-based workloads to AWS. The company has internet-facing load balancers backed by application servers. The application servers rely on patches from an internet-hosted repository.

Which services should a solutions architect recommend be hosted on the public subnet? (Choose two.)

**A.** NAT gateway

**B.** Amazon RDS DB instances

**C.** Application Load Balancers

**D.** Amazon EC2 application servers

**E.** Amazon Elastic File System (Amazon EFS) volumes

**ANSWER: A C**

## QUESTION NO: 15

A company has deployed an API in a VPC behind an internet-facing Application Load Balancer (ALB). An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal. Which combination of architectural changes will reduce the NAT gateway costs? (Choose two.)

**A.** Configure a VPC peering connection between the two VPCs. Access the API using the private address.

**B.** Configure an AWS Direct Connect connection between the two VPCs. Access the API using the private address.

**C.** Configure a ClassicLink connection for the API into the client VPAccess the API using the ClassicLink address.

**D.** Configure a PrivateLink connection for the API into the client VPC. Access the API using the PrivateLink address.

**E.** Configure an AWS Resource Access Manager connection between the two accounts. Access the API using the private address.

**ANSWER: D E**

## QUESTION NO: 16

A user wants to list the IAM role that is attached to their Amazon EC2 instance. The user has login access to the EC2 instance but does not have IAM permissions.

What should a solutions architect do to retrieve this information?

**A.** Run the following EC2 command: curl http://169.254.169.254/latest/meta-data/iam/info

**B.** Run the following EC2 command: curl http://169.254.169.254/latest/user-data/iam/info

**C.** Run the following EC2 command: http://169.254.169.254/latest/dynamic/instance-identity/

**D.** Run the following AWS CLI command: aws iam get-instance-profile --instance-profile-name ExampleInstanceProfile

## ANSWER: A

**Explanation:**

Reference: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/iam-roles-for-amazon-ec2.html

## QUESTION NO: 17

A solutions architect is designing a shared storage solution for a web application that is deployed across multiple Availability Zones. The web application runs on Amazon EC2 instances that are in an Auto Scaling group. The company plans to make frequent changes to the content. The solution must have strong consistency in returning the new content as soon as the changes occur.

Which solutions meet these requirements? (Choose two.)

**A.** Use AWS Storage Gateway Volume Gateway Internet Small Computer Systems Interface (iSCSI) block storage that is mounted to the individual EC2 instances.

**B.** Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system on the individual EC2 instances.

**C.** Create a shared Amazon Elastic Block Store (Amazon EBS) volume. Mount the EBS volume on the individual EC2 instances.

**D.** Use AWS DataSync to perform continuous synchronization of data between EC2 hosts in the Auto Scaling group.

**E.** Create an Amazon S3 bucket to store the web content. Set the metadata for the Cache-Control header to no-cache. Use Amazon CloudFront to deliver the content.

## ANSWER: A B

**Explanation:**

Reference: https://docs.aws.amazon.com/storagegateway/latest/userguide/WhatIsStorageGateway.html
https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html

In this example, the EC2 instance in the us-west-2c Availability Zone will pay EC2 data access charges for accessing a mount target in a different Availability Zone. Creating this setup works as follows:

1. Create your Amazon EC2 resources and launch your Amazon EC2 instance. For more information about Amazon EC2, see Amazon EC2 ☒.

2. Create your Amazon EFS file system with One Zone storage.

3. Connect to each of your Amazon EC2 instances, and mount the Amazon EFS file system using the same mount target for each instance.

## QUESTION NO: 18

A solutions architect needs to ensure that API calls to Amazon DynamoDB from Amazon EC2 instances in a VPC do not traverse the internet. What should the solutions architect do to accomplish this? (Choose two.)

A. Create a route table entry for the endpoint.

B. Create a gateway endpoint for DynamoDB.

C. Create a new DynamoDB table that uses the endpoint.

D. Create an ENI for the endpoint in each of the subnets of the VPC.

E. Create a security group entry in the default security group to provide access.

## ANSWER: A B

**Explanation:**

A VPC endpoint enables you to privately connect your VPC to supported AWS services and VPC endpoint services powered by AWS PrivateLink without requiring an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection. Instances in your VPC do not require public IP addresses to communicate with resources in the service. Traffic between your VPC and the other service does not leave the Amazon network.

Gateway endpoints

A gateway endpoint is a gateway that you specify as a target for a route in your route table for traffic destined to a supported AWS service. The following AWS services are supported:

Amazon S3

DynamoDB

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/vpc-endpoints.html

## QUESTION NO: 19

A company stores confidential data in an Amazon Aurora PostgreSQL database in the ap-southeast-3 Region The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key The company was recently acquired and must securely share a backup of the database with the acquiring company's AWS account in ap-southeast-3.

What should a solutions architect do to meet these requirements?

**A.** Create a database snapshot Copy the snapshot to a new unencrypted snapshot Share the new snapshot with the acquiring company's AWS account

**B.** Create a database snapshot Add the acquiring company's AWS account to the KMS key policy Share the snapshot with the acquiring company's AWS account

**C.** Create a database snapshot that uses a different AWS managed KMS key Add the acquiring company's AWS account to the KMS key alias. Share the snapshot with the acquiring company's AWS account.

**D.** Create a database snapshot Download the database snapshot Upload the database snapshot to an Amazon S3 bucket Update the S3 bucket policy to allow access from the acquiring company's AWS account

**ANSWER: A**

## QUESTION NO: 20

A solutions architect is designing a mission-critical web application. It will consist of Amazon EC2 instances behind an Application Load Balancer and a relational database. The database should be highly available and fault tolerant.

Which database implementations will meet these requirements? (Choose two.)

**A.** Amazon Redshift

**B.** Amazon DynamoDB

**C.** Amazon RDS for MySQL

**D.** MySQL-compatible Amazon Aurora Multi-AZ

**E.** Amazon RDS for SQL Server Standard Edition Multi-AZ

**ANSWER: D E**