

➤ **Vendor: Amazon**

➤ **Exam Code: SAA-C02**

➤ **Exam Name: AWS Certified Solutions Architect - Associate (SAA-C02) Exam**

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**QUESTION 402**

A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers, and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0. Company policy requires that each resource has the least access required to still be able to perform its tasks.

Which additional configuration strategy should the solution architect use to meet these requirements?

- A. Create a security group for the web servers and allow port 443 from 0.0.0.0/0.  
Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- B. Create a network ACL for the web servers and allow port 443 from 0.0.0.0/0.  
Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.
- C. Create a security group for the web servers and allow port 443 from the load balancer.  
Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- D. Create a network ACL for the web servers and allow port 443 from the load balancer.  
Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

**Answer: C**

**QUESTION 403**

A company runs an application on an Amazon EC2 instance backed by Amazon Elastic Block Store (Amazon EBS). The instance needs to be available for 12 hours daily.

The company wants to save costs by making the instance unavailable outside the window required for the application. However, the contents of the instance's memory must be preserved whenever the instance is unavailable.

What should a solutions architect do to meet this requirement?

- A. Stop the instance outside the application's availability window.  
Start up the instance again when required.
- B. Hibernate the instance outside the application's availability window.  
Start up the instance again when required.
- C. Use Auto Scaling to scale down the instance outside the application's availability window.  
Scale up the instance when required.
- D. Terminate the instance outside the application's availability window.  
Launch the instance by using a preconfigured Amazon Machine Image (AMI) when required.

**Answer: B**

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**QUESTION 404**

A company is migrating to the AWS Cloud. A file server is the first workload to migrate. Users must be able to access the file share using the Server Message Block (SMB) protocol. Which AWS managed service meets these requirements?"

- A. Amazon EBS
- B. Amazon EC2
- C. Amazon FSx
- D. Amazon S3

**Answer: B**

**QUESTION 405**

A solutions architect needs to design a resilient solution for Windows users' home directories. The solution must provide fault tolerance, file-level backup and recovery, and access control, based upon the company's Active Directory. Which storage solution meets these requirements?

- A. Configure Amazon S3 to store the users' home directories.  
Join Amazon S3 to Active Directory.
- B. Configure a Multi-AZ file system with Amazon FSx for Windows File Server.  
Join Amazon FSx to Active Directory.
- C. Configure Amazon Elastic File System (Amazon EFS) for the users' home directories.  
Configure AWS Single Sign-On with Active Directory.
- D. Configure Amazon Elastic Block Store (Amazon EBS) to store the users' home directories.  
Configure AWS Single Sign-On with Active Directory.

**Answer: A**

**QUESTION 406**

A company has a legacy application that processes data in two parts. The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently. How should a solutions architect integrate the microservices?

- A. Implement code in microservice 1 to send data to an Amazon S3 bucket.  
Use S3 event notifications to invoke microservice 2
- B. Implement code in microservice 1 to publish data to an Amazon SNS topic.  
Implement code in microservice 2 to subscribe to this topic.
- C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose.  
Implement code in microservice 2 to read from Kinesis Data Firehose.
- D. Implement code in microservice 1 to send data to an Amazon SQS queue.  
Implement code in microservice 2 to process messages from the queue.

**Answer: A**

**QUESTION 407**

A company hosts its application using Amazon Elastic Container Service (Amazon ECS) and wants to ensure high availability. The company wants to be able to deploy updates to its application even if nodes in one Availability Zone are not accessible. The expected request volume for the application is 100 requests per second, and each container task is able to serve at least 60 requests per second. The company set up Amazon ECS with a rolling update deployment type with the minimum healthy percent parameter set to 50% and the maximum percent set to 100%. Which configuration of tasks and Availability Zones meets these requirements?

- A. Deploy the application across two Availability Zones, with one task in each Availability Zone
- B. Deploy the application across two Availability Zones, with two tasks in each Availability Zone.
- C. Deploy the application across three Availability Zones, with one task in each Availability Zone.
- D. Deploy the application across three Availability Zones, with two tasks in each Availability Zone.

**Answer:** A

**QUESTION 408**

A web application runs on Amazon EC2 instances behind an Application Load Balancer.

The application allows users to create custom reports of historical weather data.

Generating a report can take up to 5 minutes.

These long-running requests use many of the available incoming connections, making the system unresponsive to other users.

How can a solutions architect make the system more responsive?

- A. Use Amazon SOS with AWS Lambda to generate reports.
- B. Increase the Idle timeout on the Application Load Balancer to 5 minutes.
- C. Update the client-side application code to increase its request timeout to 5 minutes.
- D. Publish the reports to Amazon S3 and use Amazon CloudFront for downloading to the user.

**Answer:** A

**QUESTION 409**

A company is planning to use Amazon S3 to store images uploaded by its users.

The images must be encrypted at rest in Amazon S3.

The company does not want to spend time managing and rotating the keys, but it does want to control who can access those keys.

What should a solutions architect use to accomplish this?

- A. Server-Side Encryption with keys stored in an S3 bucket
- B. Server-Side Encryption with Customer-Provided Keys (SSE-C)
- C. Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3)
- D. Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS)

**Answer:** D

**QUESTION 410**

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 in 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 411**

A website runs a web application that receives a burst of traffic each day at noon. The users upload new pictures and content daily, but have been complaining of timeouts. The architecture uses Amazon EC2 Auto Seating groups, and the custom application consistently takes 1 minute to initiate upon boot up before responding to user requests. How should a solutions architect redesign the architecture to better respond to changing traffic?

- A. Configure a Network Load Balancer with a slow start configuration.
- B. Configure AWS ElastiCache for Redis to offload direct requests to the servers
- C. Configure an Auto Scaling step scaling policy with an instance warmup condition.
- D. Configure Amazon CloudFront to use an Application Load Balancer as the origin.

**Answer: B**

**QUESTION 412**

A solutions architect needs to design a managed storage solution for a company's application that includes high-performance machine learning. This application runs on AWS Fargate, and the connected storage needs to have concurrent access to files and deliver high performance. Which storage option should the solutions architect recommend?

- A. Create an Amazon S3 bucket for the application and establish an IAM role for Fargate to communicate with Amazon S3.
- B. Create an Amazon FSx for Lustre file share and establish an IAM role that allows Fargate to communicate with FSx for Lustre
- C. Create an Amazon Elastic File System (Amazon EFS) file share and establish an IAM role that allows Fargate to communicate with Amazon EFS.
- D. Create an Amazon Elastic Block Store (Amazon EBS) volume for the application and establish an IAM role that allows Fargate to communicate with Amazon EBS.

**Answer: B**

**QUESTION 413**

A company is launching an ecommerce website on AWS. This website is built with a three-tier architecture that includes a MySQL database. In a Multi-AZ deployment of Amazon Aurora MySQL. The website application must be highly available and will initially be launched in an AWS Region with three Availability Zones. The application produces a metric that describes the load the application experiences. Which solution meets these requirements?

- A. Configure an Application Load Balancer (ALB) with Amazon EC2 Auto Scaling behind the ALB with scheduled scaling
- B. Configure an Application Load Balancer (ALB) and Amazon EC2 Auto Scaling behind the ALB with a simple scaling policy.
- C. Configure a Network Load Balancer (NLB) and launch a Spot Fleet with Amazon EC2 Auto Scaling behind the NLB.
- D. Configure an Application Load Balancer (ALB) and Amazon EC2 Auto Scaling behind the ALB with a target tracking scaling policy.

**Answer: B**

**QUESTION 414**

A company is designing an internet-facing web application. The application runs on Amazon EC2 for Linux-based instances that store sensitive user data in Amazon RDS MySQL Multi-AZ DB instances. The EC2 instances are in public subnets, and the RDS DB instances are in private subnets.

The security team has mandated that the DB instances be secured against web-based attacks. What should a solutions architect recommend?

- A. Ensure the EC2 instances are part of an Auto Scaling group and are behind an Application Load Balancer.  
Configure the EC2 instance iptables rules to drop suspicious web traffic.  
Create a security group for the DB instances.  
Configure the RDS security group to only allow port 3306 inbound from the individual EC2 instances.
- B. Ensure the EC2 instances are part of an Auto Scaling group and are behind an Application Load Balancer.  
Move DB instances to the same subnets that EC2 instances are located in.  
Create a security group for the DB instances.  
Configure the RDS security group to only allow port 3306 inbound from the individual EC2 instances.
- C. Ensure the EC2 instances are part of an Auto Scaling group and are behind an Application Load Balancer.  
Use AWS WAF to monitor inbound web traffic for threats.  
Create a security group for the web application servers and a security group for the DB instances.  
Configure the RDS security group to only allow port 3306 inbound from the web application server security group.
- D. Ensure the EC2 instances are part of an Auto Scaling group and are behind an Application Load Balancer.  
Use AWS WAF to monitor inbound web traffic for threats.  
Configure the Auto Scaling group to automatically create new DB instances under heavy traffic.  
Create a security group for the RDS DB instances. Configure the RDS security group to only allow port 3306 inbound.

**Answer:** D

#### **QUESTION 415**

A start-up company has a web application based in the us-east-1 Region with multiple Amazon EC2 instances running behind an Application Load Balancer across multiple Availability Zones.

As the company's user base grows in the us-west-1 Region, it needs 3 solution with low latency and high availability. What should a solutions architect do to accomplish this?

- A. Provision EC2 instances in us-west-1.  
Switch the Application Load Balancer to a Network Load Balancer to achieve cross-Region load balancing.
- B. Provision EC2 instances and an Application Load Balancer in us-west-1.  
Make the load balancer distribute the traffic based on the location of the request
- C. Provision EC2 instances and configure an Application Load Balancer in us-west-1.  
Create an accelerator in AWS Global Accelerator that uses an endpoint group that includes the load balancer endpoints in both Regions.
- D. Provision EC2 Instances and configure an Application Load Balancer in us-west-1.  
Configure Amazon Route 53 with a weighted routing policy.  
Create alias records in Route 53 that point to the Application Load Balancer

**Answer:** C

**Explanation:**

<https://aws.amazon.com/global-accelerator/faqs/>