

## SAA-C02 Dumps

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

<https://www.certleader.com/SAA-C02-dumps.html>



**NEW QUESTION 1**

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? (Select TWO )

- A. Configure a VPC peering connection between the two VPC
- B. Access the API using the private address
- C. Configure an AWS Direct Connect connection between the two VPC
- D. Access the API using the private address.
- E. Configure a ClassicLink connection for the API into the client VPC. Access the API using the ClassicLink address.
- F. Configure a PrivateLink connection for the API into the client VPC
- G. Access the API using the PrivateLink address.
- H. Configure an AWS Resource Access Manager connection between the two accounts. Access the API using the private address

**Answer:** DE

**NEW QUESTION 2**

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 auto scaling EC2\_INSTANCE\_LAUNCH events.

**Answer:** B

**NEW QUESTION 3**

A solutions architect is designing a two-tier web application. The application consists of a public-facing web tier hosted on Amazon EC2 in public subnets. The database tier consists of Microsoft SQL Server running on Amazon EC2 in a private subnet. Security is a high priority for the company.

How should security groups be configured in this situation? (Select TWO )

- A. Configure the security group for the web tier to allow inbound traffic on port 443 from 0.0.0.0/0.
- B. Configure the security group for the web tier to allow outbound traffic on port 443 from 0.0.0.0/0.
- C. Configure the security group for the database tier to allow inbound traffic on port 1433 from the security group for the web tier.
- D. Configure the security group for the database tier to allow outbound traffic on ports 443 and 1433 to the security group for the web tier.
- E. Configure the security group for the database tier to allow inbound traffic on ports 443 and 1433 from the security group for the web tier.

**Answer:** AC

**NEW QUESTION 4**

A company is running an ecommerce application on Amazon EC2. The application consists of a stateless web tier that requires a minimum of 10 instances, and a peak of 250 instances to support the application's usage. The application requires 50 instances 80% of the time.

Which solution should be used to minimize costs?

- A. Purchase Reserved Instances to cover 250 instances.
- B. Purchase Reserved Instances to cover 80 instances. Use Spot Instances to cover the remaining instances.
- C. Purchase On-Demand Instances to cover 40 instances. Use Spot Instances to cover the remaining instances.
- D. Purchase Reserved Instances to cover 50 instances. Use On-Demand and Spot Instances to cover the remaining instances.

**Answer:** D

**NEW QUESTION 5**

An application running on AWS uses an Amazon Aurora Multi-AZ deployment for its database. When evaluating performance metrics, a solutions architect discovered that the database reads are causing high I/O and adding latency to the write requests against the database.

What should the solutions architect do to separate the read requests from the write requests?

- A. Enable read-through caching on the Amazon Aurora database.
- B. Update the application to read from the Multi-AZ standby instance.
- C. Create a read replica and modify the application to use the appropriate endpoint.
- D. Create a second Amazon Aurora database and link it to the primary database as a read replica.

**Answer:** C

**NEW QUESTION 6**

A company's web application is using multiple Linux Amazon EC2 instances and storing data on Amazon EBS volumes. The company is looking for a solution to increase the resiliency of the application in case of a failure and to provide storage that complies with atomicity, consistency, isolation, and durability (ACID).

What should a solutions architect do to meet these requirements?

- A. Launch the application on EC2 instances in each Availability Zone.
- B. Attach EBS volumes to each EC2 instance.
- C. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Mount an instance store on each EC2 instance.
- D. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Store data on Amazon EFS and mount a target on each

instance.

E. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones Store data using Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)

**Answer: C**

#### NEW QUESTION 7

A solutions architect is designing a high performance computing (HPC) workload on Amazon EC2 The EC2 instances need to communicate to each other frequently and require network performance with low latency and high throughput Which EC2 configuration meets these requirements'?

- A. Launch the EC2 instances in a cluster placement group in one Availability Zone
- B. Launch the EC2 instances in a spread placement group in one Availability Zone
- C. Launch the EC2 instances in an Auto Scaling group in two Regions and peer the VPCs
- D. Launch the EC2 instances in an Auto Scaling group spanning multiple Availability Zones

**Answer: A**

#### NEW QUESTION 8

An application runs on Amazon EC2 instances across multiple Availability Zones The instances run in an Amazon EC2 Auto Scaling group behind an Application Load Balancer The application performs best when the CPU utilization of the EC2 instances is at or near 40% What should a solutions architect do to maintain the desired performance across all instances m the group?

- A. Use a simple scaling policy to dynamically scale the Auto Scaling group
- B. Use a target tracking policy to dynamically scale the Auto Scaling group
- C. Use an AWS Lambda function to update the desired Auto Scaling group capacity
- D. Use scheduled scaling actions to scale up and scale down the Auto Scaling group

**Answer: D**

#### NEW QUESTION 9

A company has application running on Amazon EC2 instances in a VPC. One of the applications needs to call an Amazon S3 API to store and read objects. The company's security policies restrict any internet-bound traffic from the applications. Which action will fulfill these requirements and maintain security?

- A. Configure an S3 interface endpoint.
- B. Configure an S3 gateway endpoint.
- C. Create an S3 bucket in a private subnet.
- D. Create an S3 bucket in the same Region as the EC2 instance.

**Answer: C**

#### NEW QUESTION 10

A company's legacy application is currently relying on a single-instance Amazon RDS MySQL database without encryption Due to new compliance requirements, all existing and new data in this database must be encrypted How should this be accomplished?

- A. Create an Amazon S3 bucket with server-side encryption enabled Move all the data to Amazon S3 Delete the RDS instance
- B. Enable RDS Multi-AZ mode with encryption at rest enabled Perform a failover to the standby instance to delete the original instance
- C. Take a snapshot of the RDS instance Create an encrypted copy of the snapshot Restore the RDS instance from the encrypted snapshot
- D. Create an RDS read replica with encryption at rest enabled Promote the read replica to master and switch the application over to the new master Delete the old RDS instance.

**Answer: C**

#### NEW QUESTION 10

A marketing company is storing CSV files in an Amazon S3 bucket for statistical analysis An application on an Amazon EC2 instance needs permission to efficiently process the CSV data stored in the S3 bucket. Which action will MOST securely grant the EC2 instance access to the S3 bucket?

- A. Attach a resource-based policy to the S3 bucket
- B. Create an IAM user for the application with specific permissions to the S3 bucket
- C. Associate an IAM role with least privilege permissions to the EC2 instance profile
- D. Store AWS credentials directly on the EC2 instance for applications on the instance to use for API calls

**Answer: C**

#### NEW QUESTION 14

A solutions architect is designing storage for a high performance computing (HPC) environment based on Amazon Linux. The workload stores and processes a large amount of engineering drawings that require shared storage and heavy computing. Which storage option would be the optimal solution?

- A. Amazon Elastic File System (Amazon EFS)
- B. Amazon FSx for Lustre
- C. Amazon EC2 instance store
- D. Amazon EBS Provisioned IOPS SSD (io1)

**Answer: B**

#### NEW QUESTION 16

A company runs an application in a branch office within a small data closet with no virtualized compute resources. The application data is stored on an NFS volume. Compliance standards require a daily offsite backup of the NFS volume. Which solution meet these requirements?

- A. Install an AWS Storage Gateway file gateway on premises to replicate the data to Amazon S3.
- B. Install an AWS Storage Gateway file gateway hardware appliance on premises to replicate the data to Amazon S3.
- C. Install an AWS Storage Gateway volume gateway with stored volumes on premises to replicate the data to Amazon S3.
- D. Install an AWS Storage Gateway volume gateway with cached volumes on premises to replicate the data to Amazon S3.

**Answer: C**

#### NEW QUESTION 17

A company is migrating a three-tier application to AWS. The application requires a MySQL database. In the past, the application users reported poor application performance when creating new entries. These performance issues were caused by users generating different real-time reports from the application during working hours. Which solution will improve the performance of the application when it is moved to AWS?

- A. Import the data into an Amazon DynamoDB table with provisioned capacity
- B. Refactor the application to use DynamoDB for reports.
- C. Create the database on a compute optimized Amazon EC2 instance
- D. Ensure compute resources exceed the on-premises database.
- E. Create an Amazon Aurora MySQL Multi-AZ DB cluster with multiple read replicas
- F. Configure the application reader endpoint for reports.
- G. Create an Amazon Aurora MySQL Multi-AZ DB cluster
- H. Configure the application to use the backup instance of the cluster as an endpoint for the reports.

**Answer: B**

#### NEW QUESTION 18

A company is performing an AWS Well-Architected Framework review of an existing workload deployed on AWS. The review identified a public-facing website running on the same Amazon EC2 instance as a Microsoft Active Directory domain controller that was installed recently to support other AWS services. A solutions architect needs to recommend a new design that would improve the security of the architecture and minimize the administrative demand on IT staff. What should the solutions architect recommend?

- A. Use AWS Directory Service to create a managed Active Directory
- B. Uninstall Active Directory on the current EC2 instance.
- C. Create another EC2 instance in the same subnet and reinstall Active Directory on it
- D. Uninstall Active Directory.
- E. Use AWS Directory Service to create an Active Directory connection
- F. Proxy Active Directory requests to the Active domain controller running on the current EC2 instance.
- G. Enable AWS Single Sign-On (AWS SSO) with Security Assertion Markup Language (SAML) 2.0 federation with the current Active Directory controller
- H. Modify the EC2 instance's security group to deny public access to Active Directory.

**Answer: C**

#### NEW QUESTION 22

A solutions architect is deploying a distributed database on multiple Amazon EC2 instances. The database stores all data on multiple instances so it can withstand the loss of an instance. The database requires block storage with latency and throughput to support several million transactions per second per server. Which storage solution should the solutions architect use?

- A. Amazon EBS
- B. Amazon EC2 instance store
- C. Amazon EFS
- D. Amazon S3

**Answer: B**

#### NEW QUESTION 24

A company currently operates a web application backed by an Amazon RDS MySQL database. It has automated backups that are run daily and are not encrypted. A security audit requires future backups to be encrypted and the unencrypted backups to be destroyed. The company will make at least one encrypted backup before destroying the old backups. What should be done to enable encryption for future backups?

- A. Enable default encryption for the Amazon S3 bucket where backups are stored
- B. Modify the backup section of the database configuration to toggle the Enable encryption check box
- C. Create a snapshot of the database. Copy it to an encrypted snapshot. Restore the database from the encrypted snapshot
- D. Enable an encrypted read replica on RDS for MySQL. Promote the encrypted read replica to primary. Remove the original database instance

**Answer: C**

#### NEW QUESTION 28

A company is hosting a web application on AWS using a single Amazon EC2 instance that stores user-uploaded documents in an Amazon EBS volume. For better scalability and availability, the company duplicated the architecture and created a second EC2 instance and EBS volume in another Availability Zone, placing both behind an Application Load Balancer. After completing this change, users reported that each



time they refreshed the website they could see one subset of their documents or the other but never all of the documents at the same time  
What should a solutions architect propose to ensure users see all of their documents at once"

- A. Copy the data so both EBS volumes contain all the documents
- B. Configure the Application Load Balancer to direct a user to the server with the documents
- C. Copy the data from both EBS volumes to Amazon EFS Modify the application to save new documents to Amazon EPS
- D. Configure the Application Load Balancer to send the request to both servers Return each document from the correct server

**Answer:** C

### NEW QUESTION 33

A solutions architect is designing an application for a two-step order process The first step is synchronous and must return to the user with little latency The second step takes longer, so it will be implemented in a separate component Orders must be processed exactly once and in the order in which they are received  
How should the solutions architect integrate these components?

- A. Use Amazon SQS FIFO queues.
- B. Use an AWS Lambda function along with Amazon SQS standard queues
- C. Create an SNS topic and subscribe an Amazon SQS FIFO queue to that topic
- D. Create an SNS topic and subscribe an Amazon SQS Standard queue to that topic.

**Answer:** C

### NEW QUESTION 36

A company built a food ordering application that captures user data and stores it for future analysis The application's static front end is deployed on an Amazon EC2 instance The front-end application sends the requests to the backend application running on separate EC2 instance The backend application then stores the data in Amazon RDS

What should a solutions architect do to decouple the architecture and make it scalable"

- A. Use Amazon S3 to serve the front-end application which sends requests to Amazon EC2 to execute the backend application The backend application will process and store the data in Amazon RDS
- B. Use Amazon S3 to serve the front-end application and write requests to an Amazon Simple Notification Service (Amazon SNS) topic Subscribe Amazon EC2 instances to the HTTP/HTTPS endpoint of the topic and process and store the data in Amazon RDS
- C. Use an EC2 instance to serve the front end and write requests to an Amazon SQS queue Place the backend instance in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS
- D. Use Amazon S3 to serve the static front-end application and send requests to Amazon API Gateway which writes the requests to an Amazon SQS queue Place the backend instances in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS

**Answer:** D

### NEW QUESTION 41

A company wants to migrate a high performance computing (HPC) application and data from on-premises to the AWS Cloud The company uses tiered storage on premises with hot high-performance parallel storage to support the application during periodic runs of the application and more economical cold storage to hold the data when the application is not actively running

Which combination of solutions should a solutions architect recommend to support the storage needs of the application? (Select TWO )

- A. Amazon S3 for cold data storage
- B. Amazon EFS for cold data storage
- C. Amazon S3 for high-performance parallel storage
- D. Amazon FSx for Lustre for high-performance parallel storage
- E. Amazon FSx for Windows for high-performance parallel storage

**Answer:** AD

### NEW QUESTION 45

A company allows its developers to attach existing 1AM policies to existing 1AM roles to enable (aster experimentation and agility However the security operations team is concerned that the developers could attach the existing administrator policy, which would allow the developers to circumvent any other security policies  
How should a solutions architect address this issue?

- A. Create an Amazon SNS topic to send an alert every time a developer creates a new policy
- B. Use service control policies to disable IAM activity across all accounts in the organizational unit
- C. Prevent the developers from attaching any policies and assign all 1AM duties to the security operations team
- D. Set an IAM permissions boundary on the developer 1AM role that explicitly denies attaching the administrator policy

**Answer:** D

### Explanation:

[https://docs.aws.amazon.com/IAM/latest/UserGuide/access\\_policies\\_boundaries.html](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html)

### NEW QUESTION 50

.....

## Thank You for Trying Our Product

\* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

\* One year free update

You can enjoy free update one year. 24x7 online support.

\* Trusted by Millions

We currently serve more than 30,000,000 customers.

\* Shop Securely

All transactions are protected by VeriSign!

**100% Pass Your SAA-C02 Exam with Our Prep Materials Via below:**

<https://www.certleader.com/SAA-C02-dumps.html>