Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

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NEW QUESTION 1
A solutions architect is designing a system to analyze the performance of financial markets while the markets are closed The system will run a series of compute-intensive jobs for 4 hours every night The time to complete the compute jobs is expected to remain constant, and jobs cannot be interrupted once started Once completed, the system is expected to run for a minimum of 1 year
Which type of Amazon EC2 instances should be used to reduce the cost of the system?

A. Spot Instances
B. On-Demand Instances
C. Standard Reserved Instances
D. Scheduled Reserved Instances

Answer: D

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 manufacturing company wants to implement predictive maintenance on its machinery equipment The company will install thousands of loT sensors that will send data to AWS in real time A solutions architect is tasked with implementing a solution that will receive events in an ordered manner for each machinery asset and ensure that data is saved for further processing at a later time
Which solution would be MOST efficient?

A. Use Amazon Kinesis Data Streams for real-time events with a partition for each equipment asset Use Amazon Kinesis Data Firehose to save data to Amazon S3
B. Use Amazon Kinesis Data Streams for real-time events with a shard for each equipment asset Use Amazon Kinesis Data Firehose to save data to Amazon EBS
C. Use an Amazon SQS FIFO queue for real-time events with one queue for each equipment asset Trigger an AWS Lambda function for the SQS queue to save data to Amazon EFS
D. Use an Amazon SQS standard queue for real-time events with one queue for each equipment asset Trigger an AWS Lambda function from the SQS queue to save data to Amazon S3

Answer: A

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
A security team wants to limit access to specific services or actions in all of the team's AWS accounts. All accounts belong to a large organization in AWS Organizations The solution must be scalable and there must be a single point where permissions can be maintained.
What should a solutions architect do to accomplish this?

A. Create an ACL to provide access to the services or actions.
B. Create a security group to allow accounts and attach it to user groups
C. Create cross-account roles in each account to deny access to the services or actions.
D. Create a service control policy in the root organizational unit to deny access to the services or actions

Answer: D

NEW QUESTION 6
A company’s web application uses an Amazon RDS PostgreSQL DB instance to store its application data. During the financial closing period at the start of every month. Accountants run large queries that impact the database's performance due to high usage. The company wants to minimize the impact that the reporting activity has on the web application.
What should a solutions architect do to reduce the impact on the database with the LEAST amount of effort?

A. Create a read replica and direct reporting traffic to the replica.
B. Create a Multi-AZ database and direct reporting traffic to the standby.
C. Create a cross-Region read replica and direct reporting traffic to the replica.
D. Create an Amazon Redshift database and direct reporting traffic to the Amazon Redshift database.

Answer: B

NEW QUESTION 7
A company must generate sales reports at the beginning of every month. The reporting process launches 20 Amazon EC2 instances on the first of the month. The process runs for 7 days and cannot be interrupted. The company wants to minimize costs.
Which pricing model should the company choose?

A. Reserved Instances
B. Spot Block Instances
C. On-Demand Instances
D. Scheduled Reserved Instances D18912E1457D5D1DDCBD40AB3BF70D5D

Answer: C

NEW QUESTION 8
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 9
A solutions architect has created a new AWS account and must secure AWS account root user access Which combination of actions will accomplish this? (Select TWO.)

A. Ensure the root user uses a strong password
B. Enable multi-factor authentication to the root user
C. Store root user access keys in an encrypted Amazon S3 bucket
D. Add the root user to a group containing administrative permissions.
E. Apply the required permissions to the root user with an inline policy document

Answer: AB

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html

NEW QUESTION 10
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 bucke
B. Use S3 event notifications to invoke microservice 2.
C. Implement code in microservice 1 to publish data to an Amazon SNS topic Implement code in microservice 2 to subscribe to this topic
D. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehos
E. Implement code in microservice 2 to read from Kinesis Data Firehose.
F. 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: C

NEW QUESTION 10
A company's website is used to sell products to the public The site runs on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB) There is also an Amazon CloudFront distribution and AWS WAF is being used to protect against SQL injection attacks The ALB is the origin for the CloudFront distribution A recent review of security logs revealed an external malicious IP that needs to be blocked from accessing the website
What should a solutions architect do to protect the application"?

A. Modify the network ACL on the CloudFront distribution to add a deny rule for the malicious IP address
B. Modify the configuration of AWS WAF to add an IP match condition to block the malicious IP address
C. Modify the network ACL for the EC2 instances in the target groups behind the ALB to deny the malicious IP address
D. Modify the security groups for the EC2 instances in the target groups behind the ALB to deny the malicious IP address

Answer: B

NEW QUESTION 14
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 1AM user for the application with specific permissions to the S3 bucket
C. Associate an 1AM 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 18
A financial services company has a web application that serves users in the United States and Europe The application consists of a database tier and a web server tier The database tier consists of a MySQL database hosted in us-east-1 Amazon Route 53 geoproximity routing is used to direct traffic to instances in the closest Region A performance review of the system reveals that European users are not receiving the same level of query performance as those in the United States
Which changes should be made to the database tier to improve performance?

A. Migrate the database to Amazon RDS for MySQL Configure Multi-AZ in one of the European Regions
B. Migrate the database to Amazon DynamoDB Use DynamoDB global tables to enable replication to additional Regions
C. Deploy MySQL instances in each Region Deploy an Application Load Balancer in front of MySQL to reduce the load on the primary instance
D. Migrate the database to an Amazon Aurora global database in MySQL compatibility mode Configure read replicas in one of the European Regions

Answer: D

NEW QUESTION 23
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 27
A media streaming company collects real-time data and stores it in a disk-optimized database system The company is not getting the expected throughput and wants an in-memory database storage solution that performs faster and provides high availability using data replication.
Which database should a solutions architect recommend'?

A. Amazon RDS for MySQL
B. Amazon RDS for PostgreSQL
C. Amazon ElastiCache for Redis
D. Amazon ElastiCache for Memcached

Answer: C

NEW QUESTION 32
A company has a three-tier image-sharing application it uses an Amazon EC2 instance for the front-end layer, another for the backend tier, and a third for the MySQL database A solutions architect has been tasked with designing a solution that is highly available, and requires the least amount of changes to the application
Which solution meets these requirements'?

A. Use Amazon S3 to host the front-end layer and AWS Lambda functions for the backend layer Move the database to an Amazon DynamoDB table and use Amazon S3 to store and serve users' images
B. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layersMove the database to an Amazon RDS instance with multiple read replicas to store and serve users' images.
C. Use Amazon S3 to host the front-end layer and a fleet of Amazon EC2 instances in an Auto Scaling group for the backend layer Move the database to a memory optimized instance type to store and serve users' images
D. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers Move the database to an Amazon RDS instance with a Multi-AZ deployment Use Amazon S3 to store and serve users' images

Answer: D

NEW QUESTION 34
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 36
A company runs an application on a group of Amazon Linux EC2 instances The application writes log files using standard API calls For compliance reasons, all log files must be retained indefinitely and will be analyzed by a reporting tool that must access all files concurrently
Which storage service should a solutions architect use to provide the MOST cost-effective solution?

A. Amazon EBS

B. Amazon EFS
C. Amazon EC2 instance store
D. Amazon S3

Answer: D

NEW QUESTION 41
A product team is creating a new application that will store a large amount of data The data will be analyzed hourly and modified by multiple Amazon EC2 Linux instances The application team believes the amount of space needed will continue to grow for the next 6 months
Which set of actions should a solutions architect take to support these needs'?

A. Store the data in an Amazon EBS volume Mount the EBS volume on the application instances
B. Store the data in an Amazon EFS file system Mount the file system on the application instances
C. Store the data in Amazon S3 Glacier Update the vault policy to allow access to the application instances
D. Store the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA) Update the bucket policy to allow access to the application instances

Answer: B

NEW QUESTION 44
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 47
A bicycle sharing company is developing a multi-tier architecture to track the location of its bicycles during peak operating hours The company wants to use these data points in its existing analytics platform A solutions architect must determine the most viable multi-tier option to support this architecture The data points must be accessible from the REST API
Which action meets these requirements for storing and retrieving location data?

A. Use Amazon Athena with Amazon S3
B. Use Amazon API Gateway with AWS Lambda
C. Use Amazon QuickSight with Amazon Redshift
D. Use Amazon API Gateway with Amazon Kinesis Data Analytics

Answer: D

NEW QUESTION 48
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