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To prepare for the SAP-C02 exam, candidates are encouraged to have hands-on experience designing and deploying complex systems on AWS. AWS offers a range of training and certification resources, including classroom training, online training, and self-paced labs. In addition, there are several third-party training providers that offer courses and study materials specifically tailored to the SAP-C02 Exam.

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Pass Guaranteed Quiz 2025 Amazon Updated SAP-C02: AWS Certified Solutions Architect - Professional (SAP-C02) Certification Dumps

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Amazon SAP-C02 Exam is a professional level certification that tests the skills and expertise of an individual in designing and deploying AWS solutions. AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed for professionals who are already certified as AWS Certified Solutions Architect – Associate and have hands-on experience in designing and deploying scalable, fault-tolerant, and highly available systems on AWS.

The SAP-C02 certification exam covers a wide range of topics, including advanced networking concepts such as VPC peering and transit gateways, security concepts such as encryption and access control, cost optimization strategies such as reserved instances

and spot instances, and application design concepts such as microservices and serverless architectures. Candidates should have a solid understanding of these topics and be able to apply them to real-world scenarios.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q156-Q161):

NEW QUESTION # 156
A company is developing a gene reporting device that will collect genomic information to assist researchers with collecting large samples of data from a diverse population. The device will push 8 KB of genomic data every second to a data platform that will need to process and analyze the data and provide information back to researchers The data platform must meet the following requirements:
* Provide near-real-time analytics of the inbound genomic data
* Ensure the data is flexible, parallel, and durable
* Deliver results of processing to a data warehouse
Which strategy should a solutions architect use to meet these requirements?

- A. Use an Amazon API Gateway to put requests into an Amazon SQS queue analyze the data with an AWS Lambda function and save the results an Amazon Redshift duster using Amazon EMR
- B. Use Amazon S3 to collect the inbound device data analyze the data from Amazon SOS with Kinesis and save the results to an Amazon Redshift duster
- C. Use Amazon Kinesis Data Streams to collect the inbound sensor data analyze the data with Kinesis clients and save the results to an Amazon Redshift duster using Amazon EMR
- D. Use Amazon Kinesis Data Firehose to collect the inbound sensor data analyze the data with Kinesis clients. and save the results to an Amazon RDS instance

Answer: D

NEW QUESTION # 157
An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's dynamic website currently uses an Application Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only. The magazine is expecting a significant spike in internet traffic when the new edition is launched. Optimal performance is a top priority for the week following the launch.
Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Choose two.)

- A. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.
- B. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers web, application, and database are in private subnets.
- C. Use an Aurora global database for physical cross-Region replication. Use Amazon S3 with cross-Region replication for static content and resources. Deploy the web and application tiers in Regions across the world.
- D. Ensure the web and application tiers are each in Auto Scaling groups. Introduce an AWS Direct Connect connection. Deploy the web and application tiers in Regions across the world.
- E. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region.
Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.

Answer: A,C

NEW QUESTION # 158
A company maintains a restaurant review website. The website is a single-page application where files are stored in Amazon S3 and delivered using Amazon CloudFront. The company receives several fake postings every day that are manually removed.
The security team has identified that most of the fake posts are from bots with IP addresses that have a bad reputation within the same global region. The team needs to create a solution to help restrict the bots from accessing the website.
Which strategy should a solutions architect use?

- A. Use AWS Firewall Manager to control the CloudFront distribution security settings. Create a geographical block rule and associate it with Firewall Manager.
- B. Use AWS Firewall Manager to control the CloudFront distribution security settings. Select the managed Amazon IP

reputation rule group and associate it with Firewall Manager with a deny action.
- C. Associate an AWS WAF web ACL with the CloudFront distribution. Create a rule group for the web ACL with a geographical match statement with a deny action.
- D. Associate an AWS WAF web ACL with the CloudFront distribution. Select the managed Amazon IP reputation rule group for the web ACL with a deny action.

Answer: D

Explanation:
IP reputation rule groups allow you to block requests based on their source. Choose one or more of these rule groups if you want to reduce your exposure to BOTS!!!! traffic or exploitation attempts The Amazon IP reputation list rule group contains rules that are based on Amazon internal threat intelligence. This is useful if you would like to block IP addresses typically associated with bots or other threats. Inspects for a list of IP addresses that have been identified as bots by Amazon threat intelligence.

NEW QUESTION # 159
An application is using an Amazon RDS for MySQL Multi-AZ DB instance in the us-east-1 Region. After a failover test, the application lost the connections to the database and could not re-establish the connections. After a restart of the application, the application re-established the connections.
A solutions architect must implement a solution so that the application can re-establish connections to the database without requiring a restart.
Which solution will meet these requirements?

- A. Create a two-node Amazon Aurora MySQL DB cluster. Migrate the RDS DB instance to the Aurora DB cluster. Create an RDS proxy. Configure the existing RDS endpoint as a target. Update the connection settings in the application to point to the RDS proxy endpoint.
- B. Create an Amazon Aurora MySQL Serverless v1 DB instance. Migrate the RDS DB instance to the Aurora Serverless v1 DB instance. Update the connection settings in the application to point to the Aurora reader endpoint.
- C. Create an Amazon S3 bucket. Export the database to Amazon S3 by using AWS Database Migration Service (AWS DMS). Configure Amazon Athena to use the S3 bucket as a data store. Install the latest Open Database Connectivity (ODBC) driver for the application. Update the connection settings in the application to point to the Athena endpoint
- D. Create an RDS proxy. Configure the existing RDS endpoint as a target. Update the connection settings in the application to point to the RDS proxy endpoint.

Answer: D

Explanation:
Creating an RDS Proxy and configuring the existing RDS endpoint as a target, and then updating the connection settings in the application to point to the RDS proxy endpoint will meet the requirement of the application being able to re-establish connections to the database without requiring a restart.
Amazon RDS Proxy is a fully managed, highly available database proxy for Amazon RDS that makes applications more scalable, more resilient to database failures, and more secure. With RDS Proxy, applications can pool and share connections to RDS databases, reducing the number of connections each RDS instance needs to handle. This can improve the performance and scalability of the application.
In the event of a failover or interruption, RDS Proxy automatically redirects connections to the new primary instance, so the application can continue to function without interruption. RDS Proxy also provides connection pooling, which reduces the number of connections to the primary RDS instance, so the primary instance can handle more traffic.
Here is an example of how to set up an RDS proxy and configure it to work with an existing RDS instance: 1.Create an RDS proxy in the AWS Management Console, and configure it to use the existing RDS instance as a target.
Update the connection settings in the application to use the RDS proxy endpoint instead of the RDS instance endpoint.
Reference:
https://aws.amazon.com/rds/proxy/
https://aws.amazon.com/blogs/database/using-amazon-rds-proxy-with-amazon-rds-for-mysql-and-amazon-aurora-mysql-to-improve-app-scalability-and-availability/

NEW QUESTION # 160
A company is running an application that uses an Amazon ElastiCache for Redis cluster as a caching layer A recent security audit revealed that the company has configured encryption at rest for ElastiCache However the company did not configure ElastiCache to use encryption in transit Additionally, users can access the cache without authentication A solutions architect must make changes to require user authentication and to ensure that the company is using end-to-end encryption Which solution will meet these

requirements?

- A. Create an AUTH token Store the token in AWS Secrets Manager Configure the existing cluster to use the AUTH token and configure encryption in transit Update the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication.
- B. Create an AUTH token Store the token in AWS System Manager Parameter Store, as an encrypted parameter Create a new cluster with AUTH and configure encryption in transit Update the application to retrieve the AUTH token from Parameter Store when necessary and to use the AUTH token for authentication
- C. Create an SSL certificate Store the certificate in AWS Systems Manager Parameter Store, as an encrypted advanced parameter Update the existing cluster to configure encryption in transit Update the application to retrieve the SSL certificate from Parameter Store when necessary and to use the certificate for authentication
- D. Create an SSL certificate Store the certificate in AWS Secrets Manager Create a new cluster and configure encryption in transit Update the application to retrieve the SSL certificate from Secrets Manager when necessary and to use the certificate for authentication.

Answer: A

Explanation:
Creating an AUTH token and storing it in AWS Secrets Manager and configuring the existing cluster to use the AUTH token and configure encryption in transit, and updating the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication, would meet the requirements for user authentication and end-to-end encryption.
AWS Secrets Manager is a service that enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. Secrets Manager also enables you to encrypt the data and ensure that only authorized users and applications can access it.
By configuring the existing cluster to use the AUTH token and encryption in transit, all data will be encrypted as it is sent over the network, providing additional security for the data stored in ElastiCache.
Additionally, by updating the application to retrieve the AUTH token from Secrets Manager when necessary and to use the AUTH token for authentication, it ensures that only authorized users and applications can access the cache.
Reference:
AWS Secrets Manager documentation: https://aws.amazon.com/secrets-manager/ Encryption in transit for ElastiCache: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/encryption.html Authentication and Authorization for ElastiCache: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/accessing-elasticache.html

NEW QUESTION # 161
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