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Prep4cram provides 24/7 customer support to answer any of your queries or concerns regarding the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) certification exam. They have a team of highly skilled and experienced professionals who have a thorough knowledge of the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam questions and format.

The SAP-C02 Exam is designed to test the knowledge and skills of professionals in designing and deploying AWS solutions using best practices and architectural principles. SAP-C02 exam consists of multiple-choice questions and takes approximately 180 minutes to complete. The questions are designed to test the candidate's ability to understand and apply AWS services and features in different scenarios.

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Useful SAP-C02 Valid Cram Materials to Obtain Amazon Certification

Because the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) test has a restricted time constraint, time management must be exercised to get success. Only with enough practice one can answer real Amazon SAP-C02 Exam Questions

in a given amount of time. It has created three formats to aid Amazon SAP-C02 applicants in practicing and organizing their time for this aim.

Amazon SAP-C02 (AWS Certified Solutions Architect - Professional (SAP-C02)) Exam is a highly respected certification that demonstrates an individual's expertise in designing and deploying scalable, highly available, and fault-tolerant systems on the AWS platform. SAP-C02 exam covers a wide range of topics related to AWS architecture and requires extensive preparation and study. However, achieving this certification can open up a wide range of career opportunities and help professionals stand out in a highly competitive job market.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q102-Q107):

NEW QUESTION # 102

An e-commerce company runs an application on AWS. The application has an Amazon API Gateway API that invokes an AWS Lambda function. The data is stored in an Amazon RDS for PostgreSQL DB instance.

During the company's most recent flash sale, a sudden increase in API calls negatively affected the application's performance. A solutions architect reviewed the Amazon CloudWatch metrics during that time and noticed a significant increase in Lambda invocations and database connections. The CPU utilization also was high on the DB instance.

What should the solutions architect recommend to optimize the application's performance?

- A. Create an RDS proxy by using the Lambda console. Modify the Lambda function to use the proxy endpoint.
- B. Add an Amazon ElastiCache for Redis cluster to store the frequently accessed data from the RDS database.
- C. Modify the Lambda function to connect to the database outside of the function's handler. Check for an existing database connection before creating a new connection.
- D. Increase the memory of the Lambda function. Modify the Lambda function to close the database connections when the data is retrieved.

Answer: A

Explanation:

Explanation

This option will optimize the application's performance by reducing the overhead of opening and closing database connections for each Lambda invocation. An RDS proxy is a fully managed database proxy for Amazon RDS that makes applications more scalable, more resilient to database failures, and more secure¹. It allows applications to pool and share connections established with the database, improving database efficiency and application scalability¹. By creating an RDS proxy by using the Lambda console, you can easily configure your Lambda function to use the proxy endpoint instead of the direct database endpoint². This will enable your Lambda function to reuse existing connections from the proxy's connection pool, reducing the latency and CPU utilization caused by establishing new connections for each invocation. It will also prevent connection saturation or exhaustion on the database, which can degrade performance or cause errors³.

NEW QUESTION # 103

A company ingests and processes streaming market data. The data rate is constant. A nightly process that calculates aggregate statistics takes 4 hours to complete. The statistical analysis is not critical to the business, and data points are processed during the next iteration if a particular run fails.

The current architecture uses a pool of Amazon EC2 Reserved Instances with 1-year reservations. These EC2 instances run full time to ingest and store the streaming data in attached Amazon Elastic Block Store (Amazon EBS) volumes. A scheduled script launches EC2 On-Demand Instances each night to perform the nightly processing. The instances access the stored data from NFS shares on the ingestion servers. The script terminates the instances when the processing is complete.

The Reserved Instance reservations are expiring. The company needs to determine whether to purchase new reservations or implement a new design.

Which solution will meet these requirements MOST cost-effectively?

- A. Update the ingestion process to use a fleet of EC2 Reserved Instances with 3-year reservations behind a Network Load Balancer. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.
- B. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon Redshift. Use Amazon EventBridge to schedule an AWS Lambda function to run nightly to query Amazon Redshift to generate the daily statistics.
- C. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon S3. Use a scheduled script to launch a fleet of EC2 On-Demand Instances each night to perform the batch processing of the S3 data. Configure the script to terminate the instances when the processing is complete.

- D. Update the ingestion process to use Amazon Kinesis Data Firehose to save data to Amazon S3. Use AWS Batch with Spot Instances to perform nightly processing with a maximum Spot price that is 50% of the On-Demand price.

Answer: D

NEW QUESTION # 104

A company manages multiple AWS accounts by using AWS Organizations. Under the root OU, the company has two OUs: Research and DataOps.

Because of regulatory requirements, all resources that the company deploys in the organization must reside in the ap-northeast-1 Region. Additionally, EC2 instances that the company deploys in the DataOps OU must use a predefined list of instance types. A solutions architect must implement a solution that applies these restrictions. The solution must maximize operational efficiency and must minimize ongoing maintenance. Which combination of steps will meet these requirements? (Select TWO)

- A. Create an IAM role in one account under the DataOps OU. Use the ec2 Instance Type condition key in an inline policy on the role to restrict access to specific instance types.
- B. Create an IAM user in all accounts under the root OU. Use the aws:RequestedRegion condition key in an inline policy on each user to restrict access to all AWS Regions except ap-northeast-1.
- C. Create an SCP. Use the aws:RequestedRegion condition key to restrict access to all AWS Regions except ap-northeast-1. Apply the SCP to the root OU.
- D. Create an SCP. Use the ec2:InstanceType condition key to restrict access to specific instance types. Apply the SCP to the DataOps OU.
- E. Create an SCP. Use the ec2:Region condition key to restrict access to all AWS Regions except ap-northeast-1. Apply the SCP to the root OU, the DataOps OU, and the Research OU.

Answer: C,D

Explanation:

https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-requested-region.html

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_ec2.html

NEW QUESTION # 105

A company is migrating to the cloud. It wants to evaluate the configurations of virtual machines in its existing data center environment to ensure that it can size new Amazon EC2 instances accurately. The company wants to collect metrics, such as CPU, memory, and disk utilization, and it needs an inventory of what processes are running on each instance. The company would also like to monitor network connections to map communications between servers.

Which would enable the collection of this data MOST cost effectively?

- A. Enable AWS Application Discovery Service in the AWS Management Console and configure the corporate firewall to allow scans over a VPN.
- B. Configure the Amazon CloudWatch agent on all servers within the local environment and publish metrics to Amazon CloudWatch Logs.
- C. Use AWS Application Discovery Service and deploy the data collection agent to each virtual machine in the data center.
- D. Use AWS Application Discovery Service and enable agentless discovery in the existing virtualization environment.

Answer: C

NEW QUESTION # 106

A health insurance company stores personally identifiable information (PII) in an Amazon S3 bucket. The company uses server-side encryption with S3 managed encryption keys (SSE-S3) to encrypt the objects.

According to a new requirement, all current and future objects in the S3 bucket must be encrypted by keys that the company's security team manages. The S3 bucket does not have versioning enabled.

Which solution will meet these requirements?

- A. In the S3 bucket properties, change the default encryption to server-side encryption with AWS KMS managed encryption keys (SSE-KMS). Set an S3 bucket policy to automatically encrypt objects on GetObject and PutObject requests.
- B. In the S3 bucket properties, change the default encryption to server-side encryption with AWS KMS managed encryption

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