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As we discussed above that the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam preparation material is available in three different formats. One of them is Amazon SAP-C02 PDF questions format which is portable. Users of this format can print AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) real exam questions in this file to study without accessing any device. Furthermore, smart devices like laptops, smartphones, and tablets support the SAP-C02 PDF Questions. Hence, you can carry this material to any place and revise SAP-C02 exam questions conveniently without time restrictions.

To pass the SAP-C02 exam, a candidate should have a thorough understanding of AWS services and architectures, an ability to design and deploy scalable, fault-tolerant, and highly available systems on AWS, and a deep knowledge of security and compliance requirements in AWS deployments. SAP-C02 exam consists of 75 multiple-choice and multiple-answer questions and has a duration of 180 minutes.

Amazon SAP-C02 (AWS Certified Solutions Architect - Professional (SAP-C02)) certification exam is a highly sought-after certification for IT professionals who want to validate their advanced technical skills and expertise in designing and deploying scalable, fault-tolerant systems on AWS. AWS Certified Solutions Architect - Professional (SAP-C02) certification is intended for individuals who have already obtained the AWS Certified Solutions Architect - Associate certification and have at least two years of hands-on experience in designing and deploying cloud-based solutions using AWS.

The SAP-C02 Exam is the updated version of the previous SAP-C01 exam, and it is designed to test the candidate's knowledge of the latest AWS services and best practices. SAP-C02 exam consists of multiple-choice and multiple-response questions, and it is timed for 180 minutes. SAP-C02 exam is available in English, Japanese, Korean, and Simplified Chinese. The SAP-C02 certification is a valuable asset for professionals who are looking to advance their careers in AWS and want to demonstrate their expertise in designing and deploying scalable and reliable solutions on the AWS platform.

>> SAP-C02 Exam Preparation <<

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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample

Questions (Q489-Q494):

NEW QUESTION # 489

A company is running a compute workload by using Amazon EC2 Spot Instances that are in an Auto Scaling group. The launch template uses two placement groups and a single instance type.

Recently, a monitoring system reported Auto Scaling instance launch failures that correlated with longer wait times for system users. The company needs to improve the overall reliability of the workload.

Which solution will meet this requirement?

- A. Create a new launch template version that uses attribute-based instance type selection. Configure the Auto Scaling group to use the new launch template version.
- B. Replace the launch template with a launch configuration to use an Auto Scaling group that uses attribute-based instance type selection.
- C. Update the launch template Auto Scaling group to increase the number of placement groups.
- D. Update the launch template to use a larger instance type.

Answer: A

Explanation:

<https://docs.aws.amazon.com/autoscaling/ec2/userguide/create-asg-instance-type-requirements.html#use-attribut>

NEW QUESTION # 490

A solutions architect is responsible (or redesigning a legacy Java application to improve its availability, data durability, and scalability. Currently, the application runs on a single high-memory Amazon EC2 instance. It accepts HTTP requests from upstream clients, adds them to an in-memory queue, and responds with a 200 status. A separate application thread reads items from the queue, processes them, and persists the results to an Amazon RDS MySQL instance. The processing time for each item takes 90 seconds on average, most of which is spent waiting on external service calls, but the application is written to process multiple items in parallel. Traffic to this service is unpredictable. During periods of high load, items may sit in the internal queue for over an hour while the application processes the backlog. In addition, the current system has issues with availability and data loss if the single application node fails.

Clients that access this service cannot be modified. They expect to receive a response to each HTTP request they send within 10 seconds before they will time out and retry the request.

Which approach would improve the availability and durability of the system while decreasing the processing latency and minimizing costs?

- A. Create an Amazon API Gateway REST API that uses Lambda proxy integration to pass requests to an AWS Lambda function. Migrate the core processing code to a Lambda function and write a wrapper class that provides a handler method that converts the proxy events to the internal application data model and invokes the processing module.
- B. Create an Amazon API Gateway REST API that uses a service proxy to put items in an Amazon SQS queue. Extract the core processing code from the existing application and update it to pull items from Amazon SQS instead of an in-memory queue. Deploy the new processing application to smaller EC2 instances within an Auto Scaling group that scales dynamically based on the approximate number of messages in the Amazon SQS queue.
- C. Update the application to use a Redis task queue instead of the in-memory queue. Build a Docker container image for the application. Create an Amazon ECS task definition that includes the application container and a separate container to host Redis. Deploy the new task definition as an ECS service using AWS Fargate, and enable Auto Scaling.
- D. Modify the application to use Amazon DynamoDB instead of Amazon RDS. Configure Auto Scaling for the DynamoDB table. Deploy the application within an Auto Scaling group with a scaling policy based on CPU utilization. Back the in-memory queue with a memory-mapped file to an instance store volume and periodically write that file to Amazon S3.

Answer: B

Explanation:

Explanation

The obvious challenges here are long workloads, scalability based on queue load, and reliability. Almost always the defacto answer to queue related workload is SQS. Since the workloads are very long (90 minutes) Lambdas cannot be used (15 mins max timeout). So, autoscaled smaller EC2 nodes that wait on external services to complete the task makes more sense. If the task fails, the message is returned to the queue and retried.

NEW QUESTION # 491

A solutions architect must analyze a company's Amazon EC2 Instances and Amazon Elastic Block Store (Amazon EBS) volumes to determine whether the company is using resources efficiently. The company is running several large, high-memory EC2 instances to host database clusters that are deployed in active/passive configurations. The utilization of these EC2 instances varies by the applications that use the databases, and the company has not identified a pattern.

The solutions architect must analyze the environment and take action based on the findings.

Which solution meets these requirements MOST cost-effectively?

- A. Create a dashboard by using AWS Systems Manager OpsCenter.
Configure visualizations for Amazon CloudWatch metrics that are associated with the EC2 instances and their EBS volumes.
Review the dashboard periodically and identify usage patterns
Rightsize the EC2 instances based on the peaks in the metrics
- **B. Install the Amazon CloudWatch agent on each of the EC2 Instances.
Turn on AWS Compute Optimizer, and let it run for at least 12 hours.
Review the recommendations from Compute Optimizer, and rightsize the EC2 instances as directed**
- C. Turn on Amazon CloudWatch detailed monitoring for the EC2 instances and their EBS volumes.
Create and review a dashboard that is based on the metrics.
Identify usage patterns
Rightsize the EC2 instances based on the peaks in the metrics
- D. Sign up for the AWS Enterprise Support plan.
Turn on AWS Trusted Advisor
Wait 12 hours.
Review the recommendations from Trusted Advisor, and rightsize the EC2 instances as directed

Answer: B

Explanation:

CloudWatch Agent is a software package that autonomously and continuously runs on your servers. Using CloudWatch Agent, we can collect metrics and logs from Amazon Elastic Compute Cloud (Amazon EC2), hybrid, and on-premises servers running both Linux and Windows.

<https://aws.amazon.com/compute-optimizer/>

NEW QUESTION # 492

A company has a solution that analyzes weather data from thousands of weather stations. The weather stations send the data over an Amazon API Gateway REST API that has an AWS Lambda function integration. The Lambda function calls a third-party service for data pre-processing. The third-party service gets overloaded and fails the pre-processing, causing a loss of data.

A solutions architect must improve the resiliency of the solution. The solutions architect must ensure that no data is lost and that data can be processed later if failures occur.

What should the solutions architect do to meet these requirements?

- A. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure the queue as the dead-letter queue for the API.
- **B. Create two Amazon EventBridge event buses: a primary event bus and a secondary event bus. Update the API to use a new integration to the primary event bus. Configure an EventBridge rule to react to all events on the primary event bus. Specify the Lambda function as the target of the rule. Configure the secondary event bus as the failure destination for the Lambda function.**
- C. Create a custom Amazon EventBridge event bus. Configure the event bus as the failure destination for the Lambda function.
- D. Create two Amazon Simple Queue Service (Amazon SQS) queues: a primary queue and a secondary queue. Configure the secondary queue as the dead-letter queue for the primary queue. Update the API to use a new integration to the primary queue. Configure the Lambda function as the invocation target for the primary queue.

Answer: B

Explanation:

Explanation: This option allows the solution to decouple the API from the Lambda function and use EventBridge as an event-driven service that can handle failures gracefully¹. By using two event buses, one for normal events and one for failed events, the solution can ensure that no data is lost and that data can be processed later if failures occur². The primary event bus receives the data from the weather stations through the API integration and triggers the Lambda function through a rule. The Lambda function can then call the third-party service for data pre-processing. If the third-party service fails, the Lambda function can send an error response to EventBridge, which will route it to the secondary event bus as a failure destination³. The secondary event bus can then store the failed events in another service, such as Amazon S3 or Amazon SQS, for troubleshooting or reprocessing.

References:

Using Amazon EventBridge with AWS Lambda
Using multiple event buses
Using failure destinations
[Using dead-letter queues]

NEW QUESTION # 493

A company provisions short-lived AWS accounts for students. Each account needs access to ml.p2.xlarge SageMaker instances for training and inference. The default quotas are insufficient. How should quota increases be automated during account provisioning?

- A. Use ml.p2.xlarge training warm pool quota in ap-southeast-2.
- B. Use warm pool quotas in us-east-1.
- C. Create the template in ap-southeast-2 for SageMaker quotas in us-east-1.
- **D. Create a quota request template in us-east-1, enable template association, and add quotas for ml.p2.xlarge training and endpoint usage in ap-southeast-2.**

Answer: D

Explanation:

A is correct: Quota request templates must be created in us-east-1, the only region that supports them. You specify the desired quota in the correct target Region (ap-southeast-2) for SageMaker training and endpoint usage. This enables automatic quota increases for newly created accounts in the org.

B, C, and D misconfigure either region or quota type.

NEW QUESTION # 494

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However, you should keep in mind that to get success in the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam is not an easy task. It is a challenging exam and not a traditional exam. But complete Amazon SAP-C02 exam preparation can enable you to crack the Amazon SAP-C02 exam easily. For the quick and complete AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam preparation you can trust SAP-C02 exam practice test questions. The Amazon SAP-C02 exam practice test questions have already helped many Amazon SAP-C02 exam candidates in their preparation and success and you can also trust "Prep4cram" exam questions and start preparing today.

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