

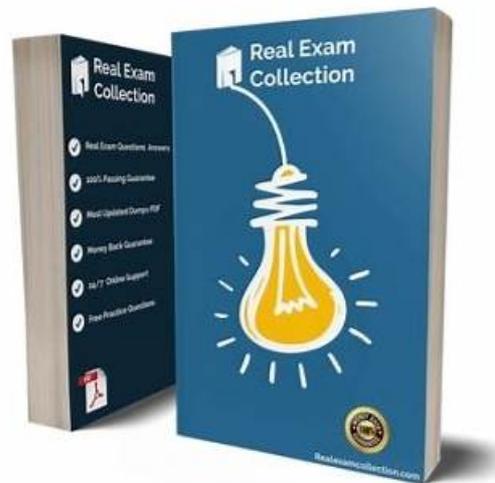
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The SAP-C02 Certification Exam is a challenging assessment that covers a wide range of topics, including architecture design, security, data storage, migration, and networking. It consists of multiple-choice and multiple-response questions and is conducted in a proctored environment. SAP-C02 exam is designed to test an individual's ability to design, deploy, and operate scalable, highly available, and fault-tolerant systems on AWS.

The AWS Certified Solutions Architect - Professional (SAP-C02) certification exam is designed to validate the advanced technical skills and experience of individuals in designing and deploying AWS solutions. AWS Certified Solutions Architect - Professional (SAP-C02) certification is intended for professionals who have already earned the AWS Certified Solutions Architect - Associate certification and have hands-on experience in designing and deploying scalable, fault-tolerant, and highly available AWS systems.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q99-Q104):

NEW QUESTION # 99

A company has a web application that allows users to upload short videos. The videos are stored on Amazon EBS volumes and analyzed by custom recognition software for categorization.

The website contains static content that has variable traffic with peaks in certain months. The architecture consists of Amazon EC2 instances running in an Auto Scaling group for the web application and EC2 instances running in an Auto Scaling group to process an Amazon SQS queue. The company wants to re-architect the application to reduce operational overhead using AWS managed services where possible and remove dependencies on third-party software.

Which solution meets these requirements?

- A. Store the uploaded videos in Amazon EFS and mount the file system to the EC2 instances for the web application. Process the SQS queue with an AWS Lambda function that calls the Amazon Rekognition API to categorize the videos.
- **B. Host the web application in Amazon S3. Store the uploaded videos in Amazon S3. Use S3 event notifications to publish events to the SQS queue. Process the SQS queue with an AWS Lambda function that calls the Amazon Rekognition API to categorize the videos.**
- C. Use AWS Elastic Beanstalk to launch EC2 instances in an Auto Scaling group for the web application and launch a worker environment to process the SQS queue. Replace the custom software with Amazon Rekognition to categorize the videos.
- D. Use Amazon ECS containers for the web application and Spot Instances for the Auto Scaling group that processes the SQS queue. Replace the custom software with Amazon Rekognition to categorize the videos.

Answer: B

Explanation:

Explanation

Option C is correct because hosting the web application in Amazon S3, storing the uploaded videos in Amazon S3, and using S3 event notifications to publish events to the SQS queue reduces the operational overhead of managing EC2 instances and EBS volumes. Amazon S3 can serve static content such as HTML, CSS, JavaScript, and media files directly from S3 buckets. Amazon S3 can also trigger AWS Lambda functions through S3 event notifications when new objects are created or existing objects are updated or deleted. AWS Lambda can process the SQS queue with an AWS Lambda function that calls the Amazon Rekognition API to categorize the videos. This solution eliminates the need for custom recognition software and third-party dependencies.

References: 1: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-spot-instances.html> 2:

<https://aws.amazon.com/efs/pricing/> 3:

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html> 4:

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/NotificationHowTo.html> 5:

<https://docs.aws.amazon.com/rekognition/latest/dg/what-is.html> 6:

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/Welcome.html>

NEW QUESTION # 100

A company is designing an AWS Organizations structure. The company wants to standardize a process to apply tags across the entire organization. The company will require tags with specific values when a user creates a new resource. Each of the company's OUs will have unique tag values.

Which solution will meet these requirements?

- A. Use an SCP to allow the creation of resources only when the resources have the required tags. Create a tag policy that includes the tag values that the company has assigned to each OU. Attach the tag policies to the OUs.
- B. Use an SCP to deny the creation of resources that do not have the required tags. Define the list of tags. Attach the SCP to the OUs
- **C. Use an SCP to deny the creation of resources that do not have the required tags. Create a tag policy that Includes the tag values that the company has assigned to each OU. Attach the tag policies to the OUs.**
- D. Use an SCP to deny the creation of resources that do not have the required tags. Create a tag policy that includes the tag values that the company has assigned to each OU. Attach the tag policies to the organization's management account.

Answer: C

Explanation:

Explanation

<https://aws.amazon.com/blogs/mt/implement-aws-resource-tagging-strategy-using-aws-tag-policies-and-service->

NEW QUESTION # 101

A company runs a content management application on a single Windows Amazon EC2 instance in a development environment. The application reads and writes static content to a 2 TB Amazon Elastic Block Store (Amazon EBS) volume that is attached to the instance as the root device. The company plans to deploy this application in production as a highly available and fault-tolerant solution that runs on at least three EC2 instances across multiple Availability Zones. A solutions architect must design a solution that joins all the instances that run the application to an Active Directory domain. The solution also must implement Windows ACLs to control access to file contents. The application always must maintain exactly the same content on all running instances at any given point in time.

Which solution will meet these requirements with the LEAST management overhead?

- A. Create an Amazon Elastic File System (Amazon EFS) file share. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to install the application, join the instance to the AD domain, and mount the EFS file share.
- B. Create a new AMI from the current EC2 instance that is running. Create an Amazon FSx for Lustre file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to join the instance to the AD domain and mount the FSx for Lustre file system.
- C. Create a new AMI from the current EC2 instance that is running. Create an Amazon Elastic File System (Amazon EFS) file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Perform a seamless domain join to join the instance to the AD domain.
- **D. Create an Amazon FSx for Windows File Server file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to install the application and mount the FSx for Windows File Server file system. Perform a seamless domain join to join the instance to the AD domain.**

Answer: D

Explanation:

<https://docs.aws.amazon.com/fsx/latest/WindowsGuide/what-is.html>

https://docs.aws.amazon.com/directoryservice/latest/admin-guide/ms_ad_join_instance.html

NEW QUESTION # 102

A solutions architect needs to improve an application that is hosted in the AWS Cloud. The application uses an Amazon Aurora MySQL DB instance that is experiencing overloaded connections. Most of the application's operations insert records into the database. The application currently stores credentials in a text-based configuration file.

The solutions architect needs to implement a solution so that the application can handle the current connection load. The solution must keep the credentials secure and must provide the ability to rotate the credentials automatically on a regular basis.

Which solution will meet these requirements?

- A. Create an Aurora Replica. Store the connection credentials as a secret in AWS Secrets Manager.

- B. Deploy an Amazon RDS Proxy layer in front of the DB instance. Store the connection credentials in AWS Systems Manager Parameter Store.
- **C. Deploy an Amazon RDS Proxy layer in front of the DB instance. Store the connection credentials as a secret in AWS Secrets Manager.**
- D. Create an Aurora Replica. Store the connection credentials in AWS Systems Manager Parameter Store.

Answer: C

Explanation:

Explanation

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/rds-proxy.html>

NEW QUESTION # 103

A company runs an ecommerce web application on AWS. The web application is hosted as a static website on Amazon S3 with Amazon CloudFront for content delivery. An Amazon API Gateway API invokes AWS Lambda functions to handle user requests and order processing for the web application. The Lambda functions store data in an Amazon RDS for MySQL DB cluster that uses On-Demand instances. The DB cluster usage has been consistent in the past 12 months.

Recently, the website has experienced SQL injection and web exploit attempts. Customers also report that order processing time has increased during periods of peak usage. During these periods, the Lambda functions often have cold starts. As the company grows, the company needs to ensure scalability and low-latency access during traffic peaks. The company also must optimize the database costs and add protection against the SQL injection and web exploit attempts.

Which solution will meet these requirements?

- **A. Use Lambda functions with provisioned concurrency for compute during peak periods. Use RDS Reserved Instances for the database. Integrate AWS WAF with CloudFront to protect against the SQL injection and web exploit attempts.**
- B. Configure the Lambda functions to have an increased timeout value during peak periods. Use RDS Reserved Instances for the database. Use CloudFront and subscribe to AWS Shield Advanced to protect against the SQL injection and web exploit attempts.
- C. Increase the memory of the Lambda functions, Transition to Amazon Redshift for the database. Integrate Amazon Inspector with CloudFront to protect against the SQL injection and web exploit attempts.
- D. Use Lambda functions with provisioned concurrency for compute during peak periods, Transition to Amazon Aurora Serverless for the database. Use CloudFront and subscribe to AWS Shield Advanced to protect against the SQL injection and web exploit attempts.

Answer: A

Explanation:

AWS Shield Advanced is not required; AWS WAF can be used to protect against common web exploits such as SQL injection and cross-site scripting (XSS) attacks.

NEW QUESTION # 104

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