

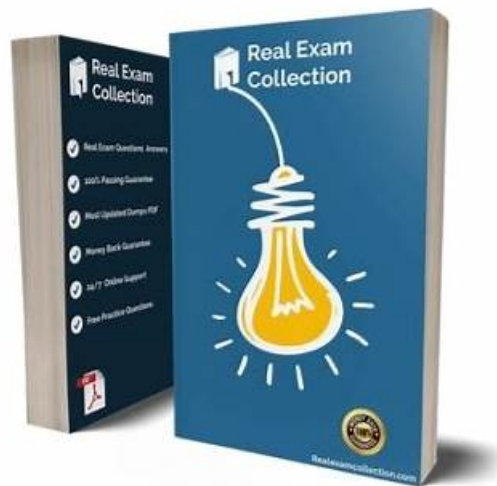
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*AWS Certified Solutions Architect - Professional*



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## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q339-Q344):

### NEW QUESTION # 339

A company uses AWS CloudFormation to deploy applications within multiple VPCs that are all attached to a transit gateway. Each VPC that sends traffic to the public internet must send the traffic through a shared services VPC. Each subnet within a VPC uses the default VPC route table, and the traffic is routed to the transit gateway. The transit gateway uses its default route table for any VPC attachment.

A security audit reveals that an Amazon EC2 instance that is deployed within a VPC can communicate with an EC2 instance that is deployed in any of the company's other VPCs. A solutions architect needs to limit the traffic between the VPCs. Each VPC must be able to communicate only with a predefined, limited set of authorized VPCs.

What should the solutions architect do to meet these requirements?

- A. Update the network ACL of each subnet within a VPC to allow outbound traffic only to the authorized VPCs. Remove all deny rules except the default deny rule.
- B. Update the main route table of each VPC to route traffic only to the authorized VPCs through the transit gateway.
- **C. Create a dedicated transit gateway route table for each VPC attachment. Route traffic only to the authorized VPCs.**
- D. Update all the security groups that are used within a VPC to deny outbound traffic to security groups that are used within the unauthorized VPCs.

**Answer: C**

Explanation:

Option C suggests creating a dedicated transit gateway route table for each VPC attachment.

This allows fine-grained control over the routing of traffic between VPCs. By creating separate route tables, the architect can specify the allowed routes for each VPC attachment and limit traffic to only the authorized VPCs. This approach ensures that communication between VPCs is restricted and provides a secure and controlled network environment.

### NEW QUESTION # 340

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 AES-256 with a customer managed key. Attach a policy to deny unencrypted PutObject requests to any entities that access the S3 bucket. Use the AWS CLI to re-upload all objects in the S3 bucket.
- B. 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.
- **C. 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 deny unencrypted PutObject requests. Use the AWS CLI to re-upload all objects in the S3 bucket.**
- D. In the S3 bucket properties, change the default encryption to SSE-S3 with a customer managed key. Use the AWS CLI to re-upload all objects in the S3 bucket. Set an S3 bucket policy to deny unencrypted PutObject requests.

**Answer: C**

Explanation:

SSE-KMS provides the necessary encryption of the PII with customer-managed keys, which the company's security team controls. Setting a bucket policy to deny unencrypted PutObject requests ensures that all future objects in the bucket will be encrypted. Re-uploading all existing objects using the AWS CLI allows for the encryption of the current objects. According to the AWS Certified Solutions Architect - Professional Official Amazon Text Book, SSE-KMS is "a fully managed encryption service that enables you to encrypt your data with keys that you manage."

#### NEW QUESTION # 341

A company runs a new application as a static website in Amazon S3. The company has deployed the application to a production AWS account and uses Amazon CloudFront to deliver the website. The website calls an Amazon API Gateway REST API. An AWS Lambda function backs each API method.

The company wants to create a CSV report every 2 weeks to show each API Lambda function's recommended configured memory, recommended cost, and the price difference between current configurations and the recommendations. The company will store the reports in an S3 bucket.

Which solution will meet these requirements with the LEAST development time?

- A. Create a Lambda function that extracts metrics data for each API Lambda function from Amazon CloudWatch Logs for the 2-week period. Collate the data into tabular format. Store the data as a \_csvfile in an S3 bucket. Create an Amazon EventBridge rule to schedule the Lambda function to run every 2 weeks.
- B. Opt in to AWS Compute Optimizer. Create a Lambda function that calls the `ExportLambdaFunctionRecommendations` operation. Export the \_csv file to an S3 bucket. Create an Amazon EventBridge rule to schedule the Lambda function to run every 2 weeks.
- C. Opt in to AWS Compute Optimizer. Set up enhanced infrastructure metrics. Within the Compute Optimizer console, schedule a job to export the Lambda recommendations to a \_csvfile. Store the file in an S3 bucket every 2 weeks.
- D. Purchase the AWS Business Support plan for the production account. Opt in to AWS Compute Optimizer for AWS Trusted Advisor checks. In the Trusted Advisor console, schedule a job to export the cost optimization checks to a \_csvfile. Store the file in an S3 bucket every 2 weeks.

**Answer: B**

Explanation:

[https://docs.aws.amazon.com/compute-optimizer/latest/APIReference/API\\_ExportLambdaFunctionRecommendations.html](https://docs.aws.amazon.com/compute-optimizer/latest/APIReference/API_ExportLambdaFunctionRecommendations.html)

#### NEW QUESTION # 342

A company is running a two-tier web-based application in an on-premises data center. The application layer consists of a single server running a stateful application. The application connects to a PostgreSQL database running on a separate server. The application's user base is expected to grow significantly, so the company is migrating the application and database to AWS. The solution will use Amazon Aurora PostgreSQL, Amazon EC2 Auto Scaling, and Elastic Load Balancing.

Which solution will provide a consistent user experience that will allow the application and database tiers to scale?

- A. Aurora Auto Scaling for Aurora Replicas. Use an Application Load Balancer with the round robin routing algorithm and sticky sessions enabled.
- B. Enable Aurora Auto Scaling for Aurora Replicas. Use a Network Load Balancer with the least outstanding requests routing algorithm and sticky sessions enabled.
- C. Aurora Auto Scaling for Aurora writers. Use a Network Load Balancer with the least outstanding requests routing algorithm and sticky sessions enabled.
- D. Enable Aurora Auto Scaling for Aurora writers. Use an Application Load Balancer with the round robin routing algorithm and sticky sessions enabled.

**Answer: A**

Explanation:

Explanation

Aurora Auto Scaling enables your Aurora DB cluster to handle sudden increases in connectivity or workload.

When the connectivity or workload decreases, Aurora Auto Scaling removes unnecessary Aurora Replicas so that you don't pay for unused provisioned DB instances.

#### NEW QUESTION # 343

A company is deploying a new web-based application and needs a storage solution for the Linux application servers. The company wants to create a single location for updates to application data for all instances. The active dataset will be up to 100 GB in size. A solutions architect has determined that peak operations will occur for 3 hours daily and will require a total of 225 MiBps of read throughput.

The solutions architect must design a Multi-AZ solution that makes a copy of the data available in another AWS Region for disaster

recovery (DR). The DR copy has an RPO of less than 1 hour.  
Which solution will meet these requirements?

- **A. Deploy a new Amazon Elastic File System (Amazon EFS) Multi-AZ file system. Configure the file system for 75 MiBps of provisioned throughput. Implement replication to a file system in the DR Region.**
- B. Deploy a new Amazon FSx for Lustre file system. Configure Bursting Throughput mode for the file system. Use AWS Backup to back up the file system to the DR Region.
- C. Deploy an Amazon FSx for OpenZFS file system in both the production Region and the DR Region. Create an AWS DataSync scheduled task to replicate the data from the production file system to the DR file system every 10 minutes.
- D. Deploy a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume with 225 MiBps of throughput. Enable Multi-Attach for the EBS volume. Use AWS Elastic Disaster Recovery to replicate the EBS volume to the DR Region.

**Answer: A**

Explanation:

The company should deploy a new Amazon Elastic File System (Amazon EFS) Multi-AZ file system. The company should configure the file system for 75 MiBps of provisioned throughput. The company should implement replication to a file system in the DR Region. This solution will meet the requirements because Amazon EFS is a serverless, fully elastic file storage service that lets you share file data without provisioning or managing storage capacity and performance. Amazon EFS is built to scale on demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove files<sup>1</sup>. By deploying a new Amazon EFS Multi-AZ file system, the company can create a single location for updates to application data for all instances. A Multi-AZ file system replicates data across multiple Availability Zones (AZs) within a Region, providing high availability and durability<sup>2</sup>. By configuring the file system for 75 MiBps of provisioned throughput, the company can ensure that it meets the peak operations requirement of 225 MiBps of read throughput. Provisioned throughput is a feature that enables you to specify a level of throughput that the file system can drive independent of the file system's size or burst credit balance<sup>3</sup>. By implementing replication to a file system in the DR Region, the company can make a copy of the data available in another AWS Region for disaster recovery. Replication is a feature that enables you to replicate data from one EFS file system to another EFS file system across AWS Regions. The replication process has an RPO of less than 1 hour.

The other options are not correct because:

Deploying a new Amazon FSx for Lustre file system would not provide a single location for updates to application data for all instances. Amazon FSx for Lustre is a fully managed service that provides cost-effective, high-performance storage for compute workloads. However, it does not support concurrent write access from multiple instances. Using AWS Backup to back up the file system to the DR Region would not provide real-time replication of data. AWS Backup is a service that enables you to centralize and automate data protection across AWS services. However, it does not support continuous data replication or cross-Region disaster recovery.

Deploying a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume with 225 MiBps of throughput would not provide a single location for updates to application data for all instances. Amazon EBS is a service that provides persistent block storage volumes for use with Amazon EC2 instances. However, it does not support concurrent access from multiple instances, unless Multi-Attach is enabled. Enabling Multi-Attach for the EBS volume would not provide Multi-AZ resilience or cross-Region replication. Multi-Attach is a feature that enables you to attach an EBS volume to multiple EC2 instances within the same Availability Zone. Using AWS Elastic Disaster Recovery to replicate the EBS volume to the DR Region would not provide real-time replication of data.

AWS Elastic Disaster Recovery (AWS DRS) is a service that enables you to orchestrate and automate disaster recovery workflows across AWS Regions. However, it does not support continuous data replication or sub-hour RPOs.

Deploying an Amazon FSx for OpenZFS file system in both the production Region and the DR Region would not be as simple or cost-effective as using Amazon EFS. Amazon FSx for OpenZFS is a fully managed service that provides high-performance storage with strong data consistency and advanced data management features for Linux workloads. However, it requires more configuration and management than Amazon EFS, which is serverless and fully elastic. Creating an AWS DataSync scheduled task to replicate the data from the production file system to the DR file system every 10 minutes would not provide real-time replication of data. AWS DataSync is a service that enables you to transfer data between on-premises storage and AWS services, or between AWS services. However, it does not support continuous data replication or sub-minute RPOs.

References:

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