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Amazon SOA-C02 (AWS Certified SysOps Administrator - Associate) certification exam is a valuable credential for professionals who work with AWS services. It validates their knowledge and skills, and demonstrates their commitment to excellence in the field. With the growing demand for cloud-based solutions, this certification can open up new career opportunities and help individuals stay competitive in the job market.

To be eligible for the exam, candidates are required to have at least one year of experience in operating and managing AWS systems. Additionally, they should have a good understanding of various security measures and compliance requirements on the AWS platform. SOA-C02 Exam is ideal for professionals who are responsible for ensuring the availability, scalability, and security of AWS systems.

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Amazon SOA-C02 exam consists of 65 multiple-choice and multiple-response questions, which candidates must complete within 130 minutes. SOA-C02 exam fee is \$150, and it can be taken in-person at a testing center or online, using a remote proctoring service. SOA-C02 Exam is available in several languages, including English, Japanese, Korean, and Simplified Chinese.

Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q137-Q142):

NEW QUESTION # 137

A company manages an application that uses Amazon ElastiCache for Redis with two extra-large nodes spread across two different Availability Zones. The company's IT team discovers that the ElastiCache for Redis cluster has 75% freeable memory. The application must maintain high availability.

What is the MOST cost-effective way to resize the cluster?

- A. Deploy a new ElastiCache for Redis cluster that uses large node types. Migrate the data from the original cluster to the new cluster. After the process is complete, shut down the original cluster.
- B. Decrease the number of nodes in the ElastiCache for Redis cluster from 2 to 1.
- C. Perform an online resizing for the ElastiCache for Redis cluster. Change the node types from extra-large nodes to large nodes.
- D. Deploy a new ElastiCache for Redis cluster that uses large node types. Take a backup from the original cluster, and restore the backup in the new cluster. After the process is complete, shut down the original cluster.

Answer: C

Explanation:

<https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/scaling-redis-cluster-mode-enabled.html> As demand on your clusters changes, you might decide to improve performance or reduce costs by changing the number of shards in your Redis (cluster mode enabled) cluster. We recommend using online horizontal scaling to do so, because it allows your cluster to continue serving requests during the scaling process. <https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/redis-cluster-vertical-scaling-scaling-down.html>

NEW QUESTION # 138

A company is using Amazon EventBridge to deliver events to an Amazon Simple Queue Service (Amazon SQS) queue. The solution was fully functional until the company enabled AWS Key Management Service (AWS KMS) encryption with a customer managed key on the SQS queue.

A SysOps administrator must add KMS permissions to allow EventBridge to publish to the KMS-encrypted SQS queue.

The SysOps administrator must add the permissions to the Action section of the following KMS key policy:

```
{
  "Sid": "Allow EventBridge to use the key",
  "Effect": "Allow",
  "Principal": {
    "Service": "events.amazonaws.com"
  },
  "Action": [
    "xxx",
    "xxx"
  ],
  "Resource": "*"
}
```

Which two permissions will allow EventBridge to publish to the KMS encrypted SQS queue?

- A.

```
"kms:Decrypt",
"kms:GetPublicKey"
```

- B. 
- C. 
- D.

Answer: C

Explanation:

When using AWS Key Management Service (AWS KMS) to encrypt an Amazon SQS queue, any service- like Amazon EventBridge-that attempts to publish messages to that queue must have the appropriate KMS permissions to perform encryption operations using the customer managed key (CMK).

To allow EventBridge to send messages to an encrypted SQS queue, it needs permissions to:

- * kms:Encrypt - This allows EventBridge to encrypt the message data before writing it to the SQS queue.
- * kms:DescribeKey - This is required so EventBridge can validate and retrieve metadata about the KMS key being used.

These actions are sufficient and minimal for the service to encrypt messages using the key.

Therefore, Option A provides the exact permissions required in the KMS key policy's Action section for EventBridge to continue publishing to the encrypted SQS queue.

Reference Extract from AWS Documentation:

When a customer managed CMK is used with an encrypted resource like an SQS queue, AWS services that write to that resource (such as EventBridge writing to SQS) must be granted kms:Encrypt and kms:

DescribeKey permissions in the key policy.

NEW QUESTION # 139

A company has scientists who upload large data objects to an Amazon S3 bucket The scientists upload the objects as multipart uploads. The multipart uploads often fail because of poor end-client connectivity.

The company wants to optimize storage costs that are associated with the data. A SysOps administrator must implement a solution that presents metrics for incomplete uploads. The solution also must automatically delete any incomplete uploads after 7 days. Which solution will meet these requirements?

- A. Use the S3 analytics storage class analysis tool to identify and measure incomplete multipart uploads. Configure an S3 bucket policy to enforce restrictions on multipart uploads to delete incomplete multipart uploads after 7 days.
- B. Access the S3 console Review the Metrics tab to check the storage that incomplete multipart uploads are consuming. Create an AWS Lambda function to delete any incomplete multipart uploads after 7 days.
- C. Implement S3 Intelligent-Tiering to move data into lower-cost storage classes after 7 days. Create an S3 Storage Lens policy to automatically delete any incomplete multipart uploads after 7 days.
- D. Review the Incomplete Multipart Upload Bytes metric in the S3 Storage Lens dashboard Create an S3 Lifecycle policy to automatically delete any incomplete multipart uploads after 7 days.

Answer: D

Explanation:

S3 Storage Lens and Lifecycle Policies:

* Incomplete Multipart Upload Bytes Metric: This metric in S3 Storage Lens helps you identify the storage consumed by incomplete multipart uploads.

* S3 Lifecycle Policies: Lifecycle policies allow you to automatically manage the lifecycle of objects, including deleting incomplete multipart uploads after a specified number of days.

* Steps:

* Go to the AWS Management Console.

* Navigate to S3 and select the bucket.

* Go to the "Metrics" tab and view the "Incomplete Multipart Upload Bytes" metric in the S3 Storage Lens dashboard.

- * To create a lifecycle policy:
- * Select the bucket.
- * Go to the "Management" tab.
- * Under "Lifecycle rules," click "Create lifecycle rule."
- * Define a rule name.
- * Choose "Multipart upload" and specify "Delete incomplete multipart uploads" after 7 days.
- * Save the rule.

AWS S3 Storage Lens

AWS S3 Lifecycle Policies

NEW QUESTION # 140

A company needs to deploy a new workload on AWS. The company must encrypt all data at rest and must rotate the encryption keys once each year. The workload uses an Amazon RDS for MySQL Multi-AZ database for data storage.

Which configuration approach will meet these requirements?

- A. Enable Transparent Data Encryption (TDE) in the MySQL configuration file. Manually rotate the key every 12 months.
- B. Enable RDS encryption on the database at creation time by using the AWS managed key for Amazon RDS.
- C. Create a new AWS Key Management Service (AWS KMS) customer managed key. Enable automatic key rotation. Enable RDS encryption on the database at creation time by using the KMS key.
- D. Create a new AWS Key Management Service (AWS KMS) customer managed key. Enable automatic key rotation. Enable encryption on the Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the RDS DB instance.

Answer: C

NEW QUESTION # 141

A SysOps administrator needs to control access to groups of Amazon EC2 instances using AWS Systems Manager Session Manager. Specific tags on the EC2 instances have already been added.

Which additional actions should the administrator take to control access? (Choose two.)

- A. Create a service account and attach it to the EC2 instances that need to be controlled.
- B. Create an IAM policy that grants access to any EC2 instances with a tag specified in the Condition element.
- C. Create a placement group for the EC2 instances and add a specific tag.
- D. Attach an IAM policy to the users or groups that require access to the EC2 instances.
- E. Attach an IAM role to control access to the EC2 instances.

Answer: B,D

Explanation:

To control access to Amazon EC2 instances using AWS Systems Manager Session Manager based on specific tags: Attach an IAM Policy to Users or Groups: Create and attach an Identity and Access Management (IAM) policy to the IAM users or groups who need access to the EC2 instances. This policy should specify the permissions required to use Session Manager to start sessions with the instances.

Create an IAM Policy with Tag-Based Conditions: Create an IAM policy that includes a condition element to allow access to EC2 instances based on specific tags. This policy can be designed to grant the `ssm:StartSession` permission only for instances that match certain tags, as defined in the condition block of the IAM policy. Here is a sample condition block that could be used:

StartSession permission only for instances that match certain tags, as defined in the condition block of the IAM policy. Here is a sample condition block that could be used:

```
"Condition": {
  "StringEquals": {
    "ec2:ResourceTag/YourTagName": "YourTagValue"
  }
}
```

This ensures that only authorized users can initiate sessions with instances that have the specified tags, enhancing security and operational management.

By implementing these policies, you ensure that only the appropriate personnel have the controlled access required, based on the specific business needs and security guidelines.

NEW QUESTION # 142

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