

# Amazon

## SOA-C01 Exam

### Amazon AWS Certified SysOps Administrator – Associate Exam

# Version: 13.2

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## Question: 1

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A SysOps Administrator is troubleshooting Amazon EC2 connectivity issues to the internet. The EC2 instance is in a private subnet. Below is the route table that is applied to the subnet of the EC2 instance.

Destination – 10.2.0.0/16

Target – local

Status – Active

Propagated – No

Destination – 0.0.0.0/0

Target – nat-xxxxxxx

Status – Blackhole

Propagated – No

What has caused the connectivity issue?

- A. The NAT gateway no longer exists
- B. There is no route to the internet gateway.
- C. The routes are no longer propagating.
- D. There is no route rule with a destination for the internet.

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**Answer: A**

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## Question: 2

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A company has adopted a security policy that requires all customer data to be encrypted at rest. Currently, customer data is stored on a central Amazon EFS file system and accessed by a number of different applications from Amazon EC2 instances.

How can the SysOps Administrator ensure that all customer data stored on the EFS file system meets the new requirement?

- A. Update the EFS file system settings to enable server-side encryption using AES-256.
- B. Create a new encrypted EFS file system and copy the data from the unencrypted EFS file system to the new encrypted EFS file system.
- C. Use AWS CloudHSM to encrypt the files directly before storing them in the EFS file system.
- D. Modify the EFS file system mount options to enable Transport Layer Security (TLS) on each of the EC2 instances.

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**Answer: B**

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## Question: 3

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A SysOps Administrator has implemented an Auto Scaling group with a step scaling policy. The Administrator notices that the additional instances have not been included in the aggregated metrics. Why are the additional instances missing from the aggregated metrics?

- A. The warm-up period has not expired
- B. The instances are still in the boot process
- C. The instances have not been attached to the Auto Scaling group
- D. The instances are included in a different set of metrics

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**Answer: B**

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**Question: 4**

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A company using AWS Organizations requires that no Amazon S3 buckets in its production accounts should ever be deleted.

What is the SIMPLEST approach the SysOps Administrator can take to ensure S3 buckets in those accounts can never be deleted?

- A. Set up MFA Delete on all the S3 buckets to prevent the buckets from being deleted.
- B. Use service control policies to deny the s3:DeleteBucket action on all buckets in production accounts.
- C. Create an IAM group that has an IAM policy to deny the s3:DeleteBucket action on all buckets in production accounts.
- D. Use AWS Shield to deny the s3:DeleteBucket action on the AWS account instead of all S3 buckets.

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**Answer: B**

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**Question: 5**

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A company's static website hosted on Amazon S3 was launched recently, and is being used by tens of thousands of users. Subsequently, website users are experiencing 503 service unavailable errors. Why are these errors occurring?

- A. The request rate to Amazon S3 is too high.
- B. There is an error with the Amazon RDS database.
- C. The requests to Amazon S3 do not have the proper permissions.
- D. The users are in different geographical region and Amazon Route 53 is restricting access.

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**Answer: A**

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**Question: 6**

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A SysOps Administrator is using AWS KMS with AWS-generated key material to encrypt an Amazon EBS

volume in a company's AWS environment. The Administrator wants to rotate the KMS keys using automatic key rotation, and needs to ensure that the EBS volume encrypted with the current key remains readable.

What should be done to accomplish this?

- A. Back up the current KMS key and enable automatic key rotation.
- B. Create a new key in AWS KMS and assign the key to Amazon EBS.
- C. Enable automatic key rotation of the EBS volume key in AWS KMS.
- D. Upload ne key material to the EBS volume key in AWS KMS to enable automatic key rotation for the volume.

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**Answer: C**

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Explanation:

References: <https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html>

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### Question: 7

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A company has an application running on a fleet of Microsoft Windows instances. Patches to the operating system need to be applied each month. AWS Systems Manager Patch Manager is used to apply the patches on a schedule.

When the fleet is being patched, customers complain about delayed service responses.

- A. Change the number of instances patched at any one time to 100%.
- B. Create a snapshot of each server in the fleet using a Systems Manager Automation document before starting the patch process.
- C. Configure the maintenance window to patch 10% of the instance in the patch group at a time.
- D. Create a patched Amazon Machine Image (AMI). Configure the maintenance window option to deploy the patched AMI on only 10% of the fleet at a time.

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**Answer: C**

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Reference:

<https://aws.amazon.com/blogs/mt/patching-your-windows-ec2-instances-using-aws-systems-manager-patch-manager/>

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### Question: 8

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An organization has decided to consolidate storage and move all of its backups and archives to Amazon S3. With all of the data gathered into a hierarchy under a single directory, the organization determines there is 70 TB data that needs to be uploaded. The organization currently has a 150-Mbps connection with 10 people working at the location.

Which service would be the MOST efficient way to transfer this data to Amazon S3?

- A. AWS Snowball

- B. AWS Direct Connect
- C. AWS Storage Gateway
- D. Amazon S3 Transfer Acceleration

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**Answer: A**

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**Question: 9**

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A SysOps Administrator is writing a utility that publishes resources from an AWS Lambda function in AWS account A to an Amazon S3 bucket in AWS Account B. The Lambda function is able to successfully write new objects to the S3 bucket, but IAM users in Account B are unable to delete objects written to the bucket by Account A.

Which step will fix this issue?

- A. Add s3:Deleteobject permission to the IAM execution role of the AWS Lambda function in Account A
- B. Change the bucket policy of the S3 bucket in Account B to allow s3:Deleteobject permission for Account A
- C. Disable server-side encryption for objects written to the S3 bucket by the Lambda function.
- D. Call the S3:PutObjectAcl API operation from the Lambda function in Account A to specify bucket owner, full control.

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**Answer: D**

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**Question: 10**

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A company's customers are reporting increased latency while accessing static web content from Amazon S3. A SysOps Administrator observed a very high rate of read operations on a particular S3 bucket. What will minimize latency by reducing load on the S3 bucket?

- A. Migrate the S3 bucket to a region that is closer to end users' geographic locations.
- B. Use cross-regions replication to replicate all of the data to another region.
- C. Create an Amazon CloudFront distribution with the S3 bucket as the origin.
- D. Use Amazon ElasticCache to cache data being served from Amazon S3.

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**Answer: C**

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