



# SOA-C02<sup>Q&As</sup>

AWS Certified SysOps Administrator - Associate (SOA-C02)

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### QUESTION 1

A company needs to create a daily Amazon Machine Image (AMI) of an existing Amazon Linux EC2 instance that hosts the operating system, application, and database on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes. File system integrity must be maintained.

Which solution will meet these requirements?

- A. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the no-reboot parameter enabled. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- B. Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the reboot parameter enabled. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- C. Use AWS Backup to create a backup plan with a backup rule that runs daily. Assign the resource ID of the EC2 instance with the no-reboot parameter enabled.
- D. Use AWS Backup to create a backup plan with a backup rule that runs daily. Assign the resource ID of the EC2 instance with the reboot parameter enabled.

Correct Answer: B

[https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating\\_EBSbacked\\_WinAMI.html](https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating_EBSbacked_WinAMI.html) "NoReboot By default, Amazon EC2 attempts to shut down and reboot the instance before creating the image. If the No Reboot option is set, Amazon EC2 doesn't shut down the instance before creating the image. When this option is used, file system integrity on the created image can't be guaranteed." Besides, we can use AWS EventBridge to invoke Lambda function [https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API\\_CreateImage.html](https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_CreateImage.html)

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### QUESTION 2

A company has an application that is deployed in two AWS Regions in an active-passive configuration. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB) in each Region. The instances are in an Amazon EC2 Auto Scaling group in each Region. The application uses an Amazon Route 53 hosted zone (or DNS). A SysOps administrator needs to configure automatic failover to the secondary Region.

What should the SysOps administrator do to meet these requirements?

- A. Configure Route 53 alias records that point to each ALB. Choose a failover routing policy. Set Evaluate Target Health to Yes.
- B. Configure CNAME records that point to each ALB. Choose a failover routing policy. Set Evaluate Target Health to Yes.
- C. Configure Elastic Load Balancing (ELB) health checks for the Auto Scaling group. Add a target group to the ALB in the primary Region. Include the EC2 instances in the secondary Region as targets.
- D. Configure EC2 health checks for the Auto Scaling group. Add a target group to the ALB in the primary Region. Include the EC2 instances in the secondary Region as targets.

Correct Answer: A



To configure automatic failover to the secondary Region for an application that is deployed to two AWS Regions in an active-passive configuration, the following steps should be taken:

Configure Route 53 alias records that point to each ALB in the two Regions.

Choose a failover routing policy, such as Failover or Geolocation.

Set Evaluate Target Health to Yes to ensure that Route 53 only responds to DNS queries with healthy ALB endpoints.

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### QUESTION 3

A company is undergoing an external audit of its systems, which run wholly on AWS. A SysOps administrator must supply documentation of Payment Card Industry Data Security Standard (PCI DSS) compliance for the infrastructure managed by AWS.

Which set of action should the SysOps administrator take to meet this requirement?

- A. Download the applicable reports from the AWS Artifact portal and supply these to the auditors.
- B. Download complete copies of the AWS CloudTrail log files and supply these to the auditors.
- C. Download complete copies of the AWS CloudWatch logs and supply these to the auditors.
- D. Provide the auditors with administrative access to the production AWS account so that the auditors can determine compliance.

Correct Answer: A

The PCI DSS Attestation of Compliance (AOC) and Responsibility Summary is available to customers through AWS Artifact, a self-service portal for on-demand access to AWS compliance reports. Sign in to AWS Artifact in the AWS Management Console, or learn more at [Getting Started with AWS Artifact](#).

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### QUESTION 4

A company is hosting applications on Amazon EC2 instances. The company is hosting a database on an Amazon RDS for PostgreSQL DB instance. The company requires all connections to the DB instance to be encrypted.

What should a SysOps administrator do to meet this requirement?

- A. Allow SSL connections to the database by using an inbound security group rule.
- B. Encrypt the database by using an AWS Key Management Service (AWS KMS) encryption key.
- C. Enforce SSL connections to the database by using a custom parameter group.
- D. Patch the database with SSL/TLS by using a custom PostgreSQL extension.

Correct Answer: C

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/PostgreSQL.Concepts.General.SSL.htm>

Amazon RDS supports SSL/TLS encryption for connections to the database, and this can be enabled by creating a custom parameter group and setting the `rds.force_ssl` parameter to 1. This will ensure that all connections to the



database are encrypted, protecting the data and maintaining compliance with the company's requirements.

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#### QUESTION 5

An errant process is known to use an entire processor and run at 100%. A SysOps administrator wants to automate restarting the instance once the problem occurs for more than 2 minutes. How can this be accomplished?

- A. Create an Amazon CloudWatch alarm for the Amazon EC2 instance with basic monitoring. Enable an action to restart the instance.
- B. Create a CloudWatch alarm for the EC2 instance with detailed monitoring. Enable an action to restart the instance.
- C. Create an AWS Lambda function to restart the EC2 instance, triggered on a scheduled basis every 2 minutes.
- D. Create a Lambda function to restart the EC2 instance, triggered by EC2 health checks.

Correct Answer: B

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