

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

AWS Certified SysOps Administrator - Associate (SOA-C02)

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### QUESTION 1

A company runs its applications on a large number of Amazon EC2 instances. A SysOps administrator must implement a solution to notify the operations team whenever an EC2 instance state changes.

What is the MOST operationally efficient solution that meets these requirements?

- A. Create a script that captures instance state changes and publishes a notification to an Amazon Simple Notification Service (Amazon SNS) topic. Use AWS Systems Manager Run Command to run the script on all EC2 instances.
- B. Create an Amazon EventBridge event rule that captures EC2 instance state changes. Set an Amazon Simple Notification Service (Amazon SNS) topic as the target
- C. Create an Amazon EventBridge event rule that captures EC2 instance state changes. Set as the target an AWS Lambda function that publishes a notification to an Amazon Simple Notification Service (Amazon SNS) topic.
- D. Create an AWS Config custom rule that evaluates instance state changes with automatic remediation. Use the rule to invoke an AWS Lambda function that publishes a notification to an Amazon Simple Notification Service (Amazon SNS) topic.

Correct Answer: B

instance stage change-> eventbridge rule-> target SNS topic

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### QUESTION 2

A SysOps administrator is troubleshooting an AWS CloudFormation template whereby multiple Amazon EC2 instances are being created. The template is working in us-east-1, but it is failing in us-west-2 with the error code:

AMI [ami-12345678] does not exist

How should the administrator ensure that the AWS CloudFormation template is working in every region?

- A. Copy the source region's Amazon Machine Image (AMI) to the destination region and assign it the same ID.
- B. Edit the AWS CloudFormation template to specify the region code as part of the fully qualified AMI ID.
- C. Edit the AWS CloudFormation template to offer a drop-down list of all AMIs to the user by using the `aws::EC2::ami::imageID` control.
- D. Modify the AWS CloudFormation template by including the AMI IDs in the "Mappings" section. Refer to the proper mapping within the template for the proper AMI ID.

Correct Answer: D

Parameters:

EnvironmentType:

Description: The environment type

Type: String

Default: test

AllowedValues:

-prod

-test

ConstraintDescription: must be a prod or test

Mappings:

RegionAndInstanceTypeToAMIID:

us-east-1:

test: "ami-8ff710e2"

prod: "ami-f5f41398"

us-west-2:

test: "ami-eff1028f"

prod: "ami-d0f506b0"

...other regions and AMI IDs...

Resources:

...other resources...

Outputs:

TestOutput:

Description: Return the name of the AMI ID that matches the region and environment type keys

Value: !FindInMap [RegionAndInstanceTypeToAMIID, !Ref "AWS::Region", !Ref EnvironmentType]

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### QUESTION 3

A recent audit found that most resources belonging to the development team were in violation of patch compliance standards. The resources were properly tagged.

Which service should be used to quickly remediate the issue and bring the resources back into compliance?

- A. AWS Config
- B. Amazon Inspector
- C. AWS Trusted Advisor
- D. AWS Systems Manager

Correct Answer: D

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#### QUESTION 4

A SysOps administrator is tasked with analyzing database performance. The database runs on a single Amazon RDS D6 instance. The SysOps administrator finds that, during times of peak traffic, resources on the database are over utilized due to the amount of read traffic.

Which actions should the SysOps administrator take to improve RDS performance? (Select TWO.)

- A. Add a read replica.
- B. Modify the application to use Amazon ElastiCache for Memcached.
- C. Migrate the database from RDS to Amazon DynamoDB.
- D. Migrate the database to Amazon EC2 with enhanced networking enabled
- E. Upgrade the database to a Multi-AZ deployment.

Correct Answer: AB

- A. Adding a read replica can offload read traffic from the primary RDS instance to the replica, thus improving performance during times of peak traffic.
  - B. Amazon ElastiCache for Memcached is an in-memory data store that can be used to improve read performance.
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#### QUESTION 5

A company is deploying an ecommerce application to an AWS Region that is located in France. The company wants users from only France to be able to access the first version of the application. The company plans to add more countries for the next version of the application. A SysOps administrator needs to configure the routing policy in Amazon Route 53.

Which solution will meet these requirements?

- A. Use a geoproximity routing policy. Select France as the location in the record.
- B. Use a geolocation routing policy. Select France as the location in the record.
- C. Use an IP-based routing policy. Select all IP addresses that are allocated to France in the record.
- D. Use a geoproximity routing policy. Select all IP addresses that are allocated to France in the record.

Correct Answer: B

Geolocation routing enables customers to choose the resources that serve their traffic based on the geographic location of their users. Customers can use this feature to localize content or restrict distribution of content to only the locations for which they have distribution rights.

<https://aws.amazon.com/about-aws/whats-new/2022/03/amazon-route-53-launches-geolocation-latency-based-routing-p>

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ivate-dns/#::~text=Geolocation%20routing%20enables%20customers%20to,which%20they%20have%20distribution%20rights.

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#### QUESTION 6

A company has several member accounts that are in an organization in AWS Organizations. The company recently discovered that administrators have been using account root user credentials. The company must prevent the administrators from using root user credentials to perform any actions on Amazon EC2 instances.

What should a SysOps administrator do to meet this requirement?

- A. Create an identity-based IAM policy in each member account to deny actions on EC2 instances by the root user.
- B. In the organization's management account, create a service control policy (SCP) to deny actions on EC2 instances by the root user in all member accounts.
- C. Use AWS Config to prevent any actions on EC2 instances by the root user.
- D. Use Amazon Inspector in each member account to scan for root user logins and to prevent any actions on EC2 instances by the root user.

Correct Answer: B

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#### QUESTION 7

A company has an encrypted Amazon S3 bucket that is hosted in the ap-southeast-2 Region. Users from the eu-west-2 Region access the S3 bucket over the internet. The users from eu-west-2 need faster transfers to and from the S3 bucket for large files.

Which solution will meet these requirements?

- A. Reduce the length of the S3 bucket prefixes within the S3 bucket.
- B. Change the server-side encryption on the S3 bucket from AES to RSA.
- C. Create a new S3 bucket that has an identical name in eu-west-2. Use the new S3 bucket endpoint's domain name for access.
- D. Enable S3 Transfer Acceleration on the S3 bucket. Use the new s3-accelerate endpoint's domain name for access.

Correct Answer: D

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#### QUESTION 8

A SysOps administrator manages a company's Amazon S3 buckets. The SysOps administrator has identified 5 GB of incomplete multipart uploads in an S3 bucket in the company's AWS account. The SysOps administrator needs to reduce the number of incomplete multipart upload objects in the S3 bucket.

Which solution will meet this requirement?

- A. Create an S3 Lifecycle rule on the S3 bucket to delete expired markers or incomplete multipart uploads.

- B. Require users that perform uploads of files into Amazon S3 to use the S3 TransferUtility.
- C. Enable S3 Versioning on the S3 bucket that contains the incomplete multipart uploads.
- D. Create an S3 Object Lambda Access Point to delete incomplete multipart uploads.

Correct Answer: A

S3 Lifecycle rules allow you to define actions that Amazon S3 should take on objects in the bucket over time. This includes transitioning objects between storage classes and deleting objects when they meet certain criteria. To reduce the number of incomplete multipart upload objects in the S3 bucket, you can create an S3 Lifecycle rule that targets incomplete multipart uploads and specifies a deletion action for them. This will help in automatically cleaning up the incomplete multipart uploads after a certain period.

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### QUESTION 9

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A SysOps administrator must make

the application highly available.

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

- A. Increase the maximum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- B. Increase the minimum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- C. Update the Auto Scaling group to launch new instances in a second Availability Zone in the same AWS Region.
- D. Update the Auto Scaling group to launch new instances in an Availability Zone in a second AWS Region.

Correct Answer: C

"An Auto Scaling group can contain EC2 instances in one or more Availability Zones within the same Region. However, Auto Scaling groups cannot span multiple Regions". As stated in <https://docs.aws.amazon.com/autoscaling/ec2/userguide/auto-scaling-benefits.htm>

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### QUESTION 10

A SysOps administrator receives an alert from Amazon GuardDuty about suspicious network activity on an Amazon EC2 instance. The GuardDuty finding lists a new external IP address as a traffic destination. The SysOps administrator does not recognize the external IP address. The SysOps administrator must block traffic to the external IP address that GuardDuty identified.

Which solution will meet this requirement?

- A. Create a new security group to block traffic to the external IP address. Assign the new security group to the EC2 instance
- B. Use VPC flow logs with Amazon Athena to block traffic to the external IP address

C. Create a network ACL Add an outbound deny rule for traffic to the external IP address

D. Create a new security group to block traffic to the external IP address Assign the new security group to the entire VPC

Correct Answer: C

Network Access Control Lists (NACLs) are used to control the traffic entering and exiting subnets in a VPC. They operate at the subnet level and are stateless, meaning that both inbound and outbound rules must be explicitly defined. By adding an outbound deny rule for traffic to the specific external IP address identified by GuardDuty, you can block any communication from the EC2 instance to that IP address.

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### QUESTION 11

A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application's performance. A SysOps administrator must scale the application to meet the increased traffic.

Which solution meets these requirements?

A. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.

B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.

C. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling policy. Attach the ALB to the Auto Scaling group.

D. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling policy. Attach the ALB to the Auto Scaling group.

Correct Answer: C

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### QUESTION 12

A SysOps administrator is unable to launch Amazon EC2 instances into a VPC because there are no available private IPv4 addresses in the VPC. Which combination of actions must the SysOps administrator take to launch the instances? (Select TWO.)

A. Associate a secondary IPv4 CIDR block with the VPC

B. Associate a primary IPv6 CIDR block with the VPC

C. Create a new subnet for the VPC

D. Modify the CIDR block of the VPC

E. Modify the CIDR block of the subnet that is associated with the instances

Correct Answer: AC

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<https://aws.amazon.com/premiumsupport/knowledge-center/subnet-insufficient-ips/>

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### QUESTION 13

A company has a memory-intensive application that runs on a fleet of Amazon EC2 instances behind an Elastic Load Balancer (ELB). The instances run in an Auto Scaling group. A Sysops administrator must ensure that the application can scale based on the number of users that connect to the application.

Which solution will meet these requirements?

- A. Create a scaling policy that will scale the application based on the ActiveConnectionCount Amazon CloudWatch metric that is generated from the ELB.
- B. Create a scaling policy that will scale the application based on the mem used Amazon CloudWatch metric that is generated from the ELB.
- C. Create a scheduled scaling policy to increase the number of EC2 instances in the Auto Scaling group to support additional connections.
- D. Create and deploy a script on the ELB to expose the number of connected users as a custom Amazon CloudWatch metric. Create a scaling policy that uses the metric.

Correct Answer: A

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### QUESTION 14

A company hosts a database on an Amazon RDS Multi-AZ DB instance. The database is not encrypted. The company's new security policy requires all AWS resources to be encrypted at rest and in transit.

What should a SysOps administrator do to encrypt the database?

- A. Configure encryption on the existing DB instance.
- B. Take a snapshot of the DB instance. Encrypt the snapshot. Restore the snapshot to the same DB instance.
- C. Encrypt the standby replica in a secondary Availability Zone. Promote the standby replica to the primary DB instance.
- D. Take a snapshot of the DB instance. Copy and encrypt the snapshot. Create a new DB instance by restoring the encrypted copy.

Correct Answer: B

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### QUESTION 15

A SysOps administrator maintains the security and compliance of a company's AWS account. To ensure the company's Amazon EC2 instances are following company policy, a SysOps administrator wants to terminate any EC2



instance that

do not contain a department tag. Noncompliant resources must be terminated in near-real time.

Which solution will meet these requirements?

A. Create an AWS Config rule with the required-tags managed rule to identify noncompliant resources. Configure automatic remediation to run the AWS- TerminateEC2Instance automation document to terminate noncompliant resources.

B. Create a new Amazon EventBridge (Amazon CloudWatch Events) rule to monitor when new EC2 instances are created. Send the event to a Simple Notification Service (Amazon SNS) topic for automatic remediation.

C. Ensure all users who can create EC2 instances also have the permissions to use the ec2:CreateTags and ec2:DescribeTags actions. Change the instance's shutdown behavior to terminate.

D. Ensure AWS Systems Manager Compliance is configured to manage the EC2 instances. Call the AWS- StopEC2Instances automation document to stop noncompliant resources.

Correct Answer: A

[https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config\\_use-managed-rules.html](https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config_use-managed-rules.html)

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