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## Amazon SOA-C02 Exam Questions – Experts Are Here To Help You

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Amazon SOA-C02 Certification Exam consists of 65 multiple-choice and multiple-response questions that must be completed in 130 minutes. To pass the exam, candidates must score at least 720 out of 1000. SOA-C02 exam fee is \$150, and it can be taken at any of the designated test centers or remotely through online proctoring. AWS Certified SysOps Administrator - Associate (SOA-C02) certification is valid for three years, and candidates must recertify after that period to maintain their certification status. Candidates who pass the exam can expect to have a deep understanding of AWS services and the ability to design, deploy, and manage scalable and fault-tolerant systems on the AWS platform.

### Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q511-Q516):

#### NEW QUESTION # 511

A company has a list of pre-approved Amazon Machine Images (AMIs) for developers to use to launch Amazon EC2 instances. However, developers are still launching EC2 instances from unapproved AMIs.

A SysOps administrator must implement a solution that automatically terminates any instances that are launched from unapproved AMIs.

Which solution will meet this requirement?

- A. Set up an AWS Config managed rule to check if instances are running from AMIs that are on the list of pre-approved AMIs. Configure an automatic remediation action so that an AWS Systems Manager Automation runbook terminates any instances that are noncompliant with the rule.
- B. Select the Amazon CloudWatch metric that shows all running instances and the AMIs that the instances were launched from. Create a CloudWatch alarm that terminates an instance if the metric shows the use of an unapproved AMI.
- C. Create a custom Amazon Inspector finding to compare a running instance's AMI against the list of pre-approved AMIs. Create an AWS Lambda function that
- D. Store the list of pre-approved AMIs in an Amazon DynamoDB global table that is replicated to all AWS Regions that the developers use. Create Regional EC2 launch templates. Configure the launch templates to check AMIs against the list and to terminate any instances that are not on the list.

**Answer: A**

Explanation:

terminates instances. Configure Amazon Inspector to report findings of unapproved AMIs to an Amazon Simple Queue Service (Amazon SQS) queue to invoke the Lambda function.

Explanation:

\* AWS Config Managed Rule:

AWS Config can be used to assess, audit, and evaluate the configurations of AWS resources. The managed rule can check if instances are launched from approved AMIs.

Steps:

Go to the AWS Management Console.

Navigate to AWS Config.

Create a managed rule that checks for EC2 instances running approved AMIs.

Configure the rule to use a list of approved AMIs.

\* Automatic Remediation with Systems Manager Automation:

AWS Systems Manager Automation runbooks can automate the process of remediating non-compliant resources.

Steps:

Create a Systems Manager Automation runbook that terminates instances not running approved AMIs.

Attach the runbook to the AWS Config rule for automatic remediation.

#### NEW QUESTION # 512

A company has a public website that recently experienced problems. Some links led to missing webpages, and other links rendered incorrect webpages. The application infrastructure was running properly, and all the provisioned resources were healthy. Application logs and dashboards did not show any errors, and no monitoring alarms were raised. Systems administrators were not aware of any

problems until end users reported the issues.

The company needs to proactively monitor the website for such issues in the future and must implement a solution as soon as possible.

Which solution will meet these requirements with the LEAST operational overhead?

- **A. Rewrite the application to surface a custom error to the application log when issues occur. Automatically parse logs for errors. Create an Amazon CloudWatch alarm to provide alerts when issues are detected.**
- B. Create an Amazon CloudWatch Synthetics canary. Use the CloudWatch Synthetics Recorder plugin to generate the script for the canary run. Configure the canary in line with requirements. Create an alarm to provide alerts when issues are detected.
- C. Create an AWS Lambda function to test the website. Configure the Lambda function to emit an Amazon CloudWatch custom metric when errors are detected. Configure a CloudWatch alarm to provide alerts when issues are detected.

**Answer: A**

### NEW QUESTION # 513

A company is running Amazon EC2 On-Demand Instances in an Auto Scaling group. The instances process messages from an Amazon Simple Queue Service (Amazon SQS) queue. The Auto Scaling group is set to scale based on the number of messages in the queue. Messages can take up to 12 hours to process completely.

A SysOps administrator must ensure that instances are not interrupted during message processing.

What should the SysOps administrator do to meet these requirements?

- A. Suspend the Launch and Terminate scaling processes for the specific instance in the Auto Scaling group at the start of message processing by calling the Amazon EC2 Auto Scaling API from the processing script. Resume the scaling processes after message processing is complete by calling the Amazon EC2 Auto Scaling API from the processing script.
- B. Set the Auto Scaling group's termination policy to OldestLaunchConfiguration.
- **C. Enable instance scale-in protection for the specific instance in the Auto Scaling group at the start of message processing by calling the Amazon EC2 Auto Scaling API from the processing script. Disable instance scale-in protection after message processing is complete by calling the Amazon EC2 Auto Scaling API from the processing script.**
- D. Set the Auto Scaling group's termination policy to OldestInstance.

**Answer: C**

Explanation:

# Enable instance scale-in protection for specific instance.

```
aws autoscaling set-instance-protection --instance-ids i-5f2e8a0d --auto-scaling-group-name my-asg -- protected-from-scale-in
```

# Disable instance scale-in protection for the specified instance.

```
aws autoscaling set-instance-protection --instance-ids i-5f2e8a0d --auto-scaling-group-name my-asg --no- protected-from-scale-in
```

<https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-instance-protection.html> To ensure that EC2 instances in an Auto Scaling group are not interrupted during message processing, the most effective method is to implement scale-in protection for the instances while they are actively processing messages. This can be done programmatically by modifying the Auto Scaling group's settings using the Amazon EC2 Auto Scaling API.

\* Starting Message Processing: When an instance begins processing a message, your application should make an API call to enable scale-in protection. This is done using the SetInstanceProtection action, setting the ProtectedFromScaleIn parameter to true for that specific instance.

\* Completing Message Processing: Once the message has been processed, another API call should be made to disable scale-in protection. This is done by calling the SetInstanceProtection action again, but this time setting the ProtectedFromScaleIn parameter to false.

This method ensures that while messages are being processed, the instances are not terminated by the Auto Scaling group regardless of any scale-in activities that might be triggered by other parameters like CPU utilization or a decrease in the number of messages in the queue.

AWS Documentation Reference:

You can refer to the AWS documentation on managing instance scale-in protection in Auto Scaling groups for more details: Instance Scale-In Protection.

### NEW QUESTION # 514

A company configures an Amazon Route 53 public hosted zone. The company wants traffic to fail over to a backup web server whenever the primary web server becomes unreachable. The company configures a Route 53 health check for the primary web server.

A connectivity issue causes the primary server to be unreachable. However, traffic does not fail over to the backup server. A

SysOps administrator must resolve the failover issue.  
Which solution will meet this requirement?

- A. Configure a Route 53 health check for the backup web server.
- **B. Associate the Route 53 health check with the primary server's DNS record.**
- C. Set a TTL of zero for the primary server's DNS record.
- D. Ensure that the backup web server is in the same AWS Region as the primary web server.

**Answer: B**

Explanation:

Failover routing works only when the primary record is associated with a health check. Without that association, Route 53 can't mark the primary as unhealthy and switch queries to the backup record.

#### NEW QUESTION # 515

A company's VPC has an existing IPv4 configuration. The IPv4 configuration includes public subnets, private subnets, NAT gateways, default route tables, and ACLs. The company associates an IPv6 CIDR block with the VPC. The company adds IPv6 allocations to each existing subnet and adds routes to the route tables. The company updates the ACLs to allow all IPv6 traffic. Public subnets are working as expected, but private subnets are not allowing internet IPv6 connections.

What should a SysOps administrator do to allow outbound-only connectivity for the new IPv6 subnets?

- A. Create a default route in the route tables that are associated with the private subnets. Configure the default route to point to the existing internet gateway.
- B. Configure a new IPv6-only NAT gateway. Create a default route in the route tables that are associated with the private subnets. Configure the default route to point to the IPv6-only NAT gateway.
- **C. Configure an egress-only internet gateway and associate it with the VPC. Create a default route in the route tables that are associated with the private subnets. Configure the default route to point to the egress-only internet gateway.**
- D. Turn on IPv6 NAT on the NAT gateways. Create a default route in the route tables that are associated with the private subnets. Configure the default route to point to the NAT gateways.

**Answer: C**

Explanation:

In AWS, to enable outbound-only internet access for IPv6 traffic from instances in a private subnet, an egress-only internet gateway is used. This gateway allows instances to initiate outbound connections to the internet over IPv6, but prevents unsolicited inbound connections from the internet.

To implement this:

\* Create an Egress-Only Internet Gateway: This gateway is specifically designed for IPv6 traffic and provides a mechanism to allow outbound communication while blocking inbound traffic.

\* Update Route Tables: In the route tables associated with the private subnets, add a default route for IPv6 traffic (::/0) that points to the egress-only internet gateway. This ensures that all outbound IPv6 traffic from the private subnets is directed through the egress-only internet gateway.

By configuring the egress-only internet gateway and updating the route tables accordingly, instances in the private subnets can access the internet over IPv6 without exposing themselves to inbound internet traffic.

#### NEW QUESTION # 516

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