

# Amazon-Web-Services

## Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)



**NEW QUESTION 1**

An existing, deployed solution uses Amazon EC2 instances with Amazon EBS General Purpose SSD volumes, an Amazon RDS PostgreSQL database, an Amazon EFS file system, and static objects stored in an Amazon S3 bucket. The Security team now mandates that at-rest encryption be turned on immediately for all aspects of the application, without creating new resources and without any downtime.

To satisfy the requirements, which one of these services can the SysOps administrator enable at-rest encryption on?

- A. EBS General Purpose SSD volumes
- B. RDS PostgreSQL database
- C. Amazon EFS file systems
- D. S3 objects within a bucket

**Answer: B**

**NEW QUESTION 2**

A company is running a flash sale on its website. The website is hosted on burstable performance Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group is configured to launch instances when the CPU utilization is above 70%.

A couple of hours into the sale, users report slow load times and error messages for refused connections. A SysOps administrator reviews Amazon CloudWatch metrics and notices that the CPU utilization is at 20% across the entire fleet of instances.

The SysOps administrator must restore the website's functionality without making changes to the network infrastructure. Which solution will meet these requirements?

- A. Activate unlimited mode for the instances in the Auto Scaling group.
- B. Implement an Amazon CloudFront distribution to offload the traffic from the Auto Scaling group.
- C. Move the website to a different AWS Region that is closer to the users.
- D. Reduce the desired size of the Auto Scaling group to artificially increase CPU average utilization.

**Answer: C**

**NEW QUESTION 3**

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.

**Answer: C**

**NEW QUESTION 4**

A company hosts an online shopping portal in the AWS Cloud. The portal provides HTTPS security by using a TLS certificate on an Elastic Load Balancer (ELB). Recently, the portal suffered an outage because the TLS certificate expired. A SysOps administrator must create a solution to automatically renew certificates to avoid this issue in the future.

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

- A. Request a public certificate by using AWS Certificate Manager (ACM). Associate the certificate from ACM with the EL
- B. Write a scheduled AWS Lambda function to renew the certificate every 18 months.
- C. Request a public certificate by using AWS Certificate Manager (ACM). Associate the certificate from ACM with the EL
- D. ACM will automatically manage the renewal of the certificate.
- E. Register a certificate with a third-party certificate authority (CA). Import this certificate into AWS Certificate Manager (ACM). Associate the certificate from ACM with the EL
- F. ACM will automatically manage the renewal of the certificate.
- G. Register a certificate with a third-party certificate authority (CA). Configure the ELB to import the certificate directly from the C
- H. Set the certificate refresh cycle on the ELB to refresh when the certificate is within 3 months of the expiration date.

**Answer: C**

**NEW QUESTION 5**

A data storage company provides a service that gives users the ability to upload and download files as needed. The files are stored in Amazon S3 Standard and must be immediately retrievable for 1 year. Users access files frequently during the first 30 days after the files are stored. Users rarely access files after 30 days. The company's SysOps administrator must use S3 Lifecycle policies to implement a solution that maintains object availability and minimizes cost. Which solution will meet these requirements?

- A. Move objects to S3 Glacier after 30 days.
- B. Move objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.
- C. Move objects to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.
- D. Move objects to S3 Standard-Infrequent Access (S3 Standard-IA) immediately.

**Answer: C**

**NEW QUESTION 6**

A SysOps administrator is deploying a test site running on Amazon EC2 instances. The application requires both incoming and outgoing connectivity to the internet. Which combination of steps are required to provide internet connectivity to the EC2 instances? (Choose two.)

- A. Add a NAT gateway to a public subnet.

- B. Attach a private address to the elastic network interface on the EC2 instance.
- C. Attach an Elastic IP address to the internet gateway.
- D. Add an entry to the route table for the subnet that points to an internet gateway.
- E. Create an internet gateway and attach it to a VPC.

**Answer:** DE

#### NEW QUESTION 7

A large company is using AWS Organizations to manage its multi-account AWS environment. According to company policy, all users should have read-level access to a particular Amazon S3 bucket in a central account. The S3 bucket data should not be available outside the organization. A SysOps administrator must set up the permissions and add a bucket policy to the S3 bucket.

Which parameters should be specified to accomplish this in the MOST efficient manner?

- A. Specify "\*" as the principal and PrincipalOrgId as a condition.
- B. Specify all account numbers as the principal.
- C. Specify PrincipalOrgId as the principal.
- D. Specify the organization's master account as the principal.

**Answer:** A

#### NEW QUESTION 8

An organization created an Amazon Elastic File System (Amazon EFS) volume with a file system ID of fs-85ba41fc, and it is actively used by 10 Amazon EC2 hosts. The organization has become concerned that the file system is not encrypted.

How can this be resolved?

- A. Enable encryption on each host's connection to the Amazon EFS volume
- B. Each connection must be recreated for encryption to take effect.
- C. Enable encryption on the existing EFS volume by using the AWS Command Line Interface.
- D. Enable encryption on each host's local drive
- E. Restart each host to encrypt the drive.
- F. Enable encryption on a newly created volume and copy all data from the original volume
- G. Reconnect each host to the new volume.

**Answer:** D

#### NEW QUESTION 9

A company is migrating its production file server to AWS. All data that is stored on the file server must remain accessible if an Availability Zone becomes unavailable or when system maintenance is performed. Users must be able to interact with the file server through the SMB protocol. Users also must have the ability to manage file permissions by using Windows ACLs.

Which solution will meet these requirements?

- A. Create a single AWS Storage Gateway file gateway.
- B. Create an Amazon FSx for Windows File Server Multi-AZ file system.
- C. Deploy two AWS Storage Gateway file gateways across two Availability Zones
- D. Configure an Application Load Balancer in front of the file gateways.
- E. Deploy two Amazon FSx for Windows File Server Single-AZ file systems
- F. Configure Microsoft Distributed File System Replication (DFS-R).

**Answer:** B

#### NEW QUESTION 10

A company has a stateful web application that is hosted on Amazon EC2 instances in an Auto Scaling group. The instances run behind an Application Load Balancer (ALB) that has a single target group. The ALB is configured as the origin in an Amazon CloudFront distribution. Users are reporting random logouts from the web application. Which combination of actions should a SysOps administrator take to resolve this problem? (Choose two.)

- A. Change to the least outstanding requests algorithm on the ALB target group.
- B. Configure cookie forwarding in the CloudFront distribution cache behavior.
- C. Configure header forwarding in the CloudFront distribution cache behavior.
- D. Enable group-level stickiness on the ALB listener rule.
- E. Enable sticky sessions on the ALB target group.

**Answer:** CE

#### NEW QUESTION 10

A SysOps administrator is setting up an automated process to recover an Amazon EC2 instance in the event of an underlying hardware failure. The recovered instance must have the same private IP address and the same Elastic IP address that the original instance had. The SysOps team must receive an email notification when the recovery process is initiated.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the StatusCheckFailed\_Instance metric
- B. Add an EC2 action to the alarm to recover the instance
- C. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic
- D. Subscribe the SysOps team email address to the SNS topic.
- E. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the StatusCheckFailed\_System metric
- F. Add an EC2 action to the alarm to recover the instance
- G. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic
- H. Subscribe the SysOps team email address to the SNS topic.
- I. Create an Auto Scaling group across three different subnets in the same Availability Zone with a minimum, maximum, and desired size of 1. Configure the Auto

Scaling group to use a launch template that specifies the private IP address and the Elastic IP address.

J. Add an activity notification for the Auto Scaling group to send an email message to the SysOps team through Amazon Simple Email Service (Amazon SES).

K. Create an Auto Scaling group across three Availability Zones with a minimum, maximum, and desired size of 1. Configure the Auto Scaling group to use a launch template that specifies the private IP address and the Elastic IP address. Add an activity notification for the Auto Scaling group to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.

L. Subscribe the SysOps team email address to the SNS topic.

**Answer:** A

#### NEW QUESTION 14

A SysOps administrator needs to design a high-traffic static website. The website must be highly available and must provide the lowest possible latency to users across the globe. Which solution will meet these requirements?

A. Create an Amazon S3 bucket, and upload the website content to the S3 bucket.

B. Create an Amazon CloudFront distribution in each AWS Region, and set the S3 bucket as the origin.

C. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct CloudFront distribution based on where the request originates.

D. Create an Amazon S3 bucket, and upload the website content to the S3 bucket.

E. Create an Amazon CloudFront distribution, and set the S3 bucket as the origin.

F. Use Amazon Route 53 to create an alias record that points to the CloudFront distribution.

G. Create an Application Load Balancer (ALB) and a target group.

H. Create an Amazon EC2 Auto Scaling group with at least two EC2 instances in the associated target group.

I. Store the website content on the EC2 instance.

J. Use Amazon Route 53 to create an alias record that points to the ALB.

K. Create an Application Load Balancer (ALB) and a target group in two Regions.

L. Create an Amazon EC2 Auto Scaling group in each Region with at least two EC2 instances in each target group.

M. Store the website content on the EC2 instance.

N. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct ALB based on where the request originates.

**Answer:** A

#### NEW QUESTION 19

A SysOps administrator is deploying an application on 10 Amazon EC2 instances. The application must be highly available. The instances must be placed on distinct underlying hardware.

What should the SysOps administrator do to meet these requirements?

A. Launch the instances into a cluster placement group in a single AWS Region.

B. Launch the instances into a partition placement group in multiple AWS Regions.

C. Launch the instances into a spread placement group in multiple AWS Regions.

D. Launch the instances into a spread placement group in a single AWS Region.

**Answer:** B

#### NEW QUESTION 20

A company has multiple Amazon EC2 instances that run a resource-intensive application in a development environment. A SysOps administrator is implementing a solution to stop these EC2 instances when they are not in use.

Which solution will meet this requirement?

A. Assess AWS CloudTrail logs to verify that there is no EC2 API activity.

B. Invoke an AWS Lambda function to stop the EC2 instances.

C. Create an Amazon CloudWatch alarm to stop the EC2 instances when the average CPU utilization is lower than 5% for a 30-minute period.

D. Create an Amazon CloudWatch metric to stop the EC2 instances when the VolumeReadBytes metric is lower than 500 for a 30-minute period.

E. Use AWS Config to invoke an AWS Lambda function to stop the EC2 instances based on resource configuration changes.

**Answer:** A

#### NEW QUESTION 21

A company has just launched a gamification feature on its mobile app that stores the score of the players to a DynamoDB table. You have been tasked to design a solution to trigger a Lambda function whenever the LeaderBoard attribute of the PlayerScore table is updated. The Lambda function would post a congratulatory message on a social media network.

What's the best solution that can be implemented to trigger the Lambda function on specific events?

A. Enable DynamoDB Streams to capture table activity and automatically trigger the Lambda function.

B. Create a CloudWatch alarm and automatically trigger the Lambda function.

C. Use Amazon Simple Notification Service to trigger Lambda function.

D. Use AWS Device Farm.

**Answer:** A

#### Explanation:

Enable DynamoDB Streams to capture table activity and automatically trigger the Lambda function is the correct answer.

Amazon DynamoDB is integrated with AWS Lambda so that you can create triggers—pieces of code that automatically respond to events in DynamoDB Streams. With triggers, you can build applications that react to data modifications in DynamoDB tables.

If you enable DynamoDB Streams on a table, you can associate the stream Amazon Resource Name (ARN) with an AWS Lambda function that you write. Immediately after an item in the table is modified, a new record appears in the table's stream. AWS Lambda polls the stream and invokes your Lambda



function synchronously when it detects new stream records.

Create a CloudWatch alarm and automatically trigger the Lambda function is incorrect. Amazon CloudWatch monitors your Amazon Web Services (AWS) resources and the applications you run on AWS in real-time. You can use CloudWatch to collect and track metrics, which are variables you can measure for your resources and applications.

You can create alarms that watch metrics and send notifications or automatically make changes to the resources you are monitoring when a threshold is breached, but can't monitor changes in DynamoDB table data.

Use Amazon Simple Notification Service to trigger Lambda function is incorrect. Amazon Simple Notification Service (Amazon SNS) is a web service that coordinates and manages the delivery or sending of messages to subscribing endpoints or clients. Subscribers (that is, web servers, email addresses, Amazon SQS queues, AWS Lambda functions) consume or receive the message or notification over one of the supported protocols (that is, Amazon SQS, HTTP/S, email, SMS, Lambda) when they are subscribed to the topic.

The Amazon SNS answer can be considered as correct but requires more configuration and is not the best solution.

Use AWS Device Farm is incorrect. Device Farm is an app testing service that you can use to test and interact with your Android, iOS, and web apps on real, physical phones and tablets that are hosted by Amazon Web Services (AWS).

There are two main ways to use Device Farm:

- \* 1. Automated testing of apps using a variety of testing frameworks.
- \* 2. Remote access of devices onto which you can load, run and interact with apps in real-time.

The Device Farm can't trigger Lambda functions.

## NEW QUESTION 22

The previous AWS SysOps administrator in the Acme Corporation was using Amazon CloudWatch dashboards, as he was able to monitor the resources in a single view, even those resources that are spread across different Regions. Now, you took over the position as AWS SysOps administrator and you are responsible to create a new CloudWatch dashboard using the console.

Which of the following steps is NOT required to create the new CloudWatch dashboard?

- A. Open the CloudWatch console at <https://console.aws.amazon.com/cloudwatch/>
- B. In the Create new dashboard dialog box, enter a name for the dashboard and choose Create dashboard
- C. Create at least two widgets to the dashboard
- D. Choose Save dashboard

**Answer: C**

### Explanation:

Create at least two widgets to the dashboard is the correct answer. Amazon CloudWatch dashboards are customizable home pages in the CloudWatch console that you can use to monitor your resources in a single view, even those resources that are spread across different Regions. You can use CloudWatch dashboards to create customized views of the metrics and alarms for your AWS resources.

With dashboards, you can create the following:

- \* 1. A single view for selected metrics and alarms to help you assess the health of your resources and applications across one or more regions. You can select the color used for each metric on each graph, so that you can easily track the same metric across multiple graphs.
- \* 2. A common view of critical resource and application measurements that can be shared by team members for faster communication flow during operational events.

To create a dashboard using the console

- \* 1. Open the CloudWatch console at <https://console.aws.amazon.com/cloudwatch/>.
- \* 2. In the navigation pane, choose Dashboards and then Create dashboard.
- \* 3. In the Create new dashboard dialog box, enter a name for the dashboard and choose Create dashboard. If you use the name CloudWatch-Default, the dashboard appears on the overview on the CloudWatch home page.

If you use resource groups and name the dashboard CloudWatch-Default-ResourceGroupName, it appears on the CloudWatch home page when you focus on that resource group.

- \* 4. Do one of the following in the Add to this dashboard dialog box:

To add a graph to your dashboard, choose Line or Stacked area and choose Configure. In the Add metric graph dialog box, select the metrics to graph and choose Create widget. If a specific metric doesn't appear in the dialog box because it hasn't published data in more than 14 days, you can add it manually.

To add a number displaying a metric to the dashboard, choose Number and then Configure. In the Add metric graph dialog box, select the metrics to graph and choose Create widget.

To add a text block to your dashboard, choose Text and then Configure. In the New text widget dialog box, for Markdown, add and format your text using Markdown. Choose Create widget.

- \* 5. Optionally, choose Add widget and repeat step 4 to add another widget to the dashboard. You can repeat this step multiple times.

- \* 6. Choose Save dashboard.

## NEW QUESTION 23

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