

## Exam Questions SOA-C02

AWS Certified SysOps Administrator - Associate (SOA-C02)

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#### NEW QUESTION 1

A company has deployed a web application in a VPC that has subnets in three Availability Zones. The company launches three Amazon EC2 instances from an EC2 Auto Scaling group behind an Application Load Balancer (ALB). A SysOps administrator notices that two of the EC2 instances are in the same Availability Zone, rather than being distributed evenly across all three Availability Zones. There are no errors in the Auto Scaling group's activity history. What is the MOST likely reason for the unexpected placement of EC2 instances?

- A. One Availability Zone did not have sufficient capacity for the requested EC2 instance type.
- B. The ALB was configured for only two Availability Zones.
- C. The Auto Scaling group was configured for only two Availability Zones.
- D. Amazon EC2 Auto Scaling randomly placed the instances in Availability Zones.

**Answer: B**

#### NEW QUESTION 2

A company is running an application on premises and wants to use AWS for data backup. All of the data must be available locally. The backup application can write only to block-based storage that is compatible with the Portable Operating System Interface (POSIX). Which backup solution will meet these requirements?

- A. Configure the backup software to use Amazon S3 as the target for the data backups.
- B. Configure the backup software to use Amazon S3 Glacier as the target for the data backups.
- C. Use AWS Storage Gateway, and configure it to use gateway-cached volumes.
- D. Use AWS Storage Gateway, and configure it to use gateway-stored volumes.

**Answer: D**

#### NEW QUESTION 3

A company asks a SysOps administrator to ensure that AWS CloudTrail files are not tampered with after they are created. Currently, the company uses AWS Identity and Access Management (IAM) to restrict access to specific trails. The company's security team needs the ability to trace the integrity of each file. What is the MOST operationally efficient solution that meets these requirements?

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function when a new file is delivered.
- B. Configure the Lambda function to compute an MD5 hash check on the file and store the result in an Amazon DynamoDB table.
- C. The security team can use the values that are stored in DynamoDB to verify the integrity of the delivered files.
- D. Create an AWS Lambda function that is invoked each time a new file is delivered to the CloudTrail bucket.
- E. Configure the Lambda function to compute an MD5 hash check on the file and store the result as a tag in an Amazon S3 object. The security team can use the information in the tag to verify the integrity of the delivered files.
- F. Enable the CloudTrail file integrity feature on an Amazon S3 bucket.
- G. Create an IAM policy that grants the security team access to the file integrity logs that are stored in the S3 bucket.
- H. Enable the CloudTrail file integrity feature on the trail.
- I. The security team can use the digest file that is created by CloudTrail to verify the integrity of the delivered files.

**Answer: C**

#### NEW QUESTION 4

A company hosts its website in the us-east-1 Region. The company is preparing to deploy its website into the eu-central-1 Region. Website visitors who are located in Europe should access the website that is hosted in eu-central-1. All other visitors access the website that is hosted in us-east-1. The company uses Amazon Route 53 to manage the website's DNS records.

Which routing policy should a SysOps administrator apply to the Route 53 record set to meet these requirements?

- A. Geolocation routing policy
- B. Geoproximity routing policy
- C. Latency routing policy
- D. Multivalue answer routing policy

**Answer: D**

#### NEW QUESTION 5

A SysOps administrator notices a scale-up event for an Amazon EC2 Auto Scaling group. Amazon CloudWatch shows a spike in the RequestCount metric for the associated Application Load Balancer. The administrator would like to know the IP addresses for the source of the requests.

Where can the administrator find this information?

- A. Auto Scaling logs
- B. AWS CloudTrail logs
- C. EC2 instance logs
- D. Elastic Load Balancer access logs

**Answer: A**

#### NEW QUESTION 6

An Amazon EC2 instance is running an application that uses Amazon Simple Queue Service (Amazon SQS) queues. A SysOps administrator must ensure that the application can read, write, and delete messages from the SQS queues.

Which solution will meet these requirements in the MOST secure manner?

- A. Create an IAM user with an IAM policy that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessage permission to the appropriate queue.
- B. Embed the IAM user's credentials in the application's configuration.

- C. Create an IAM user with an IAM policy that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessage permission to the appropriate queue
- D. Export the IAM user's access key and secretaccess key as environment variables on the EC2 instance.
- E. Create and associate an IAM role that allows EC2 instances to call AWS service
- F. Attach an IAM policy to the role that allows sqs:\* permissions to the appropriate queues.
- G. Create and associate an IAM role that allows EC2 instances to call AWS service
- H. Attach an IAM policy to the role that allows the sqs:SendMessage permission, the sqs:ReceiveMessage permission, and the sqs:DeleteMessagepermission to the appropriate queues.

**Answer:** D

#### NEW QUESTION 7

A company has an infernal 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 8

A company has launched a social media website that gives users the ability to upload images directly to a centralized Amazon S3 bucket. The website is popular in areas that are geographically distant from the AWS Region where the S3 bucket is located. Users are reporting that uploads are slow. A SysOps administrator must improve the upload speed.

What should the SysOps administrator do to meet these requirements?

- A. Create S3 access points in Regions that are closer to the users.
- B. Create an accelerator in AWS Global Accelerator for the S3 bucket.
- C. Enable S3 Transfer Acceleration on the S3 bucket.
- D. Enable cross-origin resource sharing (CORS) on the S3 bucket.

**Answer:** A

#### NEW QUESTION 9

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 10

A company hosts its website on Amazon EC2 instances behind an Application Load Balancer. The company manages its DNS with Amazon Route 53, and wants to point its domain's zone apex to the website. Which type of record should be used to meet these requirements?

- A. An AAAA record for the domain's zone apex
- B. An A record for the domain's zone apex
- C. A CNAME record for the domain's zone apex
- D. An alias record for the domain's zone apex

**Answer:** D

#### NEW QUESTION 10

A SysOps administrator is maintaining a web application using an Amazon CloudFront web distribution, an Application Load Balancer (ALB), Amazon RDS, and Amazon EC2 in a VPC. All services have logging enabled. The administrator needs to investigate HTTP Layer 7 status codes from the web application. Which log sources contain the status codes? (Choose two.)

- A. VPC Flow Logs
- B. AWS CloudTrail logs
- C. ALB access logs
- D. CloudFront access logs
- E. RDS logs

**Answer:** CD

#### NEW QUESTION 12

A company must ensure that any objects uploaded to an S3 bucket are encrypted. Which of the following actions will meet this requirement? (Choose two.)

- A. Implement AWS Shield to protect against unencrypted objects stored in S3 buckets.
- B. Implement Object access control list (ACL) to deny unencrypted objects from being uploaded to the S3 bucket.
- C. Implement Amazon S3 default encryption to make sure that any object being uploaded is encrypted before it is stored.
- D. Implement Amazon Inspector to inspect objects uploaded to the S3 bucket to make sure that they are encrypted.
- E. Implement S3 bucket policies to deny unencrypted objects from being uploaded to the buckets.

**Answer:** CE

#### NEW QUESTION 16

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 net 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 Zone
- D. Configure an Application Load Balancer in front of the file gateways.
- E. Deploy two Amazon FSx for Windows File Server Single-AZ 2 file system
- F. Configure Microsoft Distributed File System Replication (DFSR).

**Answer:** B

#### NEW QUESTION 18

A company uses an AWS CloudFormation template to provision an Amazon EC2 instance and an Amazon RDS DB instance. A SysOps administrator must update the template to ensure that the DB instance is created before the EC2 instance is launched.

What should the SysOps administrator do to meet this requirement?

- A. Add a wait condition to the templat
- B. Update the EC2 instance user data script to send a signal after the EC2 instance is started.
- C. Add the DependsOn attribute to the EC2 instance resource, and provide the logical name of the RDS resource.
- D. Change the order of the resources in the template so that the RDS resource is listed before the EC2 instance resource.
- E. Create multiple template
- F. Use AWS CloudFormation StackSets to wait for one stack to complete before the second stack is created.

**Answer:** B

#### NEW QUESTION 23

A company manages an application that uses Amazon ElastiCache for Redis with two extra-large nodes spread across two different Availability Zones. The company's IT team discovers that the ElastiCache for Redis cluster has 75% freeable memory. The application must maintain high availability.

What is the MOST cost-effective way to resize the cluster?

- A. Decrease the number of nodes in the ElastiCache for Redis cluster from 2 to 1.
- B. Deploy a new ElastiCache for Redis cluster that uses large node type
- C. Migrate the data from the original cluster to the new cluste
- D. After the process is complete, shut down the original cluster.
- E. Deploy a new ElastiCache for Redis cluster that uses large node type
- F. Take a backup from the original cluster, and restore the backup in the new cluste
- G. After the process is complete, shut down the original cluster.
- H. Perform an online resizing for the ElastiCache for Redis cluste
- I. Change the node types from extra-large nodes to large nodes.

**Answer:** B

#### NEW QUESTION 26

A company's IT department noticed an increase in the spend of their developer AWS account. There are over 50 developers using the account, and the finance team wants to determine the service costs incurred by each developer.

What should a SysOps administrator do to collect this information? (Choose two.)

- A. Activate the createdBy tag in the account.
- B. Analyze the usage with Amazon CloudWatch dashboards.
- C. Analyze the usage with Cost Explorer.
- D. Configure AWS Trusted Advisor to track resource usage.
- E. Create a billing alarm in AWS Budgets.

**Answer:** AC

#### NEW QUESTION 27

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 activit
- 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 31

Suppose you have ELB load balancers in the US West (Oregon) Region and in the Asia Pacific (Singapore) Region and you created a latency record for each load balancer. What will happen when a user in London enters the name of your domain in a browser? (Choose all that apply.)

- A. If latency is lower between the London and Oregon regions, Route 53 responds to the query with the IP address for the Singapore load balancer
- B. If latency is lower between the London and Oregon regions, Route 53 responds to the query with the IP address for the Oregon load balancer
- C. DNS routes the query to a Route 53 name server
- D. Route 53 refers to its data on latency ONLY between London and the Singapore region
- E. Route 53 refers to its data on latency between London and the Singapore region and between London and the Oregon region

Answer: BCE

### Explanation:

Explanation/Reference:

The correct answers are:

- \* 1. DNS routes the query to a Route 53 name server
- \* 2. Route 53 refers to its data on latency between London and the Singapore region and between London and the Oregon region
- \* 3. If latency is lower between the London and Oregon regions, Route 53 responds to the query with the IP address for the Oregon load balancer

If your application is hosted in multiple AWS Regions, you can improve performance for your users by serving their requests from the AWS Region that provides the lowest latency.

To use latency-based routing, you create latency records for your resources in multiple AWS Regions. When Route 53 receives a DNS query for your domain or subdomain (example.com or acme.example.com), it determines which AWS Regions you've created latency records for, determines which region gives the user the lowest latency, and then selects a latency record for that region. Route 53 responds with the value from the selected record, such as the IP address for a web server.

For example, suppose you have ELB load balancers in the US West (Oregon) Region and in the Asia Pacific (Singapore) Region. You created a latency record for each load balancer. Here's what happens when a user in London enters the name of your domain in a browser:

- \* 1. DNS routes the query to a Route 53 name server.
- \* 2. Route 53 refers to its data on latency between London and the Singapore region and between London and the Oregon region.
- \* 3. If latency is lower between the London and Oregon regions, Route 53 responds to the query with the IP address for the Oregon load balancer. If latency is lower between London and the Singapore region, Route 53 responds with the IP address for the Singapore load balancer.

### NEW QUESTION 34

Which of the following AWS feature helps you ensure that you have the correct number of Amazon EC2 instances available to handle the load for your application?

- A. Amazon EC2 Auto Scaling
- B. AWS CloudFormation
- C. AWS OpsWorks
- D. AWS Elastic Beanstalk

Answer: A

### Explanation:

Amazon EC2 Auto Scaling is the correct answer. Amazon EC2 Auto Scaling helps you ensure that you have the correct number of Amazon EC2 instances available to handle the load for your application. You create collections of EC2 instances, called Auto Scaling groups. You can specify the minimum number of instances in each Auto Scaling group, and Amazon EC2 Auto Scaling ensures that your group never goes below this size.

You can specify the maximum number of instances in each Auto Scaling group, and Amazon EC2 Auto Scaling ensures that your group never goes above this size. If you specify the desired capacity, either when you create the group or at any time thereafter, Amazon EC2 Auto Scaling ensures that your group has this many instances. If you specify scaling policies, then Amazon EC2 Auto Scaling can launch or terminate instances as demand on your application increases or decreases.

AWS CloudFormation is incorrect. AWS CloudFormation is a service that helps you model and set up your Amazon Web Services resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS. You create a template that describes all the AWS resources that you want (like Amazon EC2 instances or Amazon RDS DB instances), and AWS CloudFormation takes care of provisioning and configuring those resources for you. You don't need to individually create and configure AWS resources and figure out what's dependent on what; AWS CloudFormation handles all of that.

AWS Elastic Beanstalk is incorrect. With Elastic Beanstalk, you can quickly deploy and manage applications in the AWS Cloud without having to learn about the infrastructure that runs those applications. Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring.

AWS OpsWorks is incorrect. AWS OpsWorks is a configuration management service that helps you configure and operate applications in a cloud enterprise by using Puppet or Chef. AWS OpsWorks Stacks and AWS OpsWorks for Chef Automate let you use Chef cookbooks and solutions for configuration management, while OpsWorks for Puppet Enterprise lets you configure a Puppet Enterprise master server in AWS. Puppet offers a set of tools for enforcing the desired state of your infrastructure and automating on-demand tasks.

**NEW QUESTION 35**

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