



SOA-C02^{Q&As}

AWS Certified SysOps Administrator - Associate (SOA-C02)

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QUESTION 1

A SysOps administrator has launched a large general purpose Amazon EC2 instance to regularly process large data files. The instance has an attached 1 TB General Purpose SSD (gp2) Amazon Elastic Block Store (Amazon EBS) volume. The instance also is EBS- optimized. To save costs, the SysOps administrator stops the instance each evening and restarts the instance each morning.

When data processing is active, Amazon CloudWatch metrics on the instance show a consistent 3.000 VolumeReadOps. The SysOps administrator must improve the I/O performance while ensuring data integrity.

Which action will meet these requirements?

- A. Change the instance type to a large, burstable, general purpose instance.
- B. Change the instance type to an extra large general purpose instance.
- C. Increase the EBS volume to a 2 TB General Purpose SSD (gp2) volume.
- D. Move the data that resides on the EBS volume to the instance store.

Correct Answer: C

QUESTION 2

A company recently purchased Savings Plans. The company wants to receive email notification when the company's utilization drops below 90% for a given day.

Which solution will meet this requirement?

- A. Create an Amazon CloudWatch alarm to monitor the Savings Plan check in AWS Trusted Advisor. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification when the utilization drops below 90% for a given day.
- B. Create an Amazon CloudWatch alarm to monitor the SavingsPlansUtilization metric under the AWS/SavingsPlans namespace in CloudWatch. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification when the utilization drops below 90% for a given day.
- C. Create a Savings Plans alert to monitor the daily utilization of the Savings Plans. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification when the utilization drops below 90% for a given day.
- D. Use AWS Budgets to create a Savings Plans budget to track the daily utilization of the Savings Plans. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification when the utilization drops below 90% for a given day.

Correct Answer: D

AWS Budgets can be used to create a Savings Plans budget and track the daily utilization of the company's Savings Plans. By creating a budget, it will trigger an action when the utilization drops below 90%, which in this case will be to send an email notification via an Amazon SNS topic. This will ensure that the company is notified when their Savings Plans utilization drops below 90%, allowing them to take action if necessary. Reference: [1]
<https://docs.aws.amazon.com/savingsplans/latest/userguide/sp-usingBudgets.html>



QUESTION 3

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 single AWS Region

Correct Answer: D

Spread – strictly places a small group of instances across distinct underlying hardware to reduce correlated failures. A rack spread placement group can span multiple Availability Zones in the same Region. For rack spread level placement groups, you can have a maximum of seven running instances per Availability Zone per group.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

QUESTION 4

A company website contains a web tier and a database tier on AWS. The web tier consists of Amazon EC2 instances that run in an Auto Scaling group across two Availability Zones. The database tier runs on an Amazon RDS for MySQL Multi-AZ DB instance. The database subnet network ACLs are restricted to only the web subnets that need access to the database. The web subnets use the default network ACL with the default rules.

The company's operations team has added a third subnet to the Auto Scaling group configuration. After an Auto Scaling event occurs, some users report that they intermittently receive an error message. The error message states that the server cannot connect to the database. The operations team has confirmed that the route tables are correct and that the required ports are open on all security groups.

Which combination of actions should a SysOps administrator take so that the web servers can communicate with the DB instance? (Select TWO.)

- A. On the default ACL, create inbound Allow rules of type TCP with the ephemeral port range and the source as the database subnets.
- B. On the default ACL, create outbound Allow rules of type MySQL/Aurora (3306). Specify the destinations as the database subnets.
- C. On the network ACLs for the database subnets, create an inbound Allow rule of type MySQL/Aurora (3306). Specify the source as the third web subnet.
- D. On the network ACLs for the database subnets, create an outbound Allow rule of type TCP with the ephemeral port range and the destination as the third web subnet.
- E. On the network ACLs for the database subnets, create an outbound Allow rule of type MySQL/Aurora (3306). Specify the destination as the third web subnet.

Correct Answer: CD



QUESTION 5

A company hosts a web application on Amazon EC2 instances behind an Application Load Balancer (ALB). The company uses Amazon Route 53 to route traffic.

The company also has a static website that is configured in an Amazon S3 bucket.

A SysOps administrator must use the static website as a backup to the web application. The failover to the static website must be fully automated.

Which combination of actions will meet these requirements? (Choose two.)

- A. Create a primary failover routing policy record. Configure the value to be the ALB.
- B. Create an AWS Lambda function to switch from the primary website to the secondary website when the health check fails.
- C. Create a primary failover routing policy record. Configure the value to be the ALB. Associate the record with a Route 53 health check.
- D. Create a secondary failover routing policy record. Configure the value to be the static website. Associate the record with a Route 53 health check.
- E. Create a secondary failover routing policy record. Configure the value to be the static website.

Correct Answer: CE

Create the failover endpoint

Open the Amazon Route 53 console, and then choose Hosted zones.

Choose the hosted zone that you want to create the record for.

Choose Create record, and input the following:

For Record name, use the same value that you entered for the primary record.

For Record type, choose A ?Routes traffic to an IPV4 address and some AWS resources.

For Alias, choose Yes.

Note: Aliases automatically use a time to live (TTL) that matches the alias target.

For Alias Target, choose the S3 bucket that you created previously.

For Routing Policy, choose Failover.

For Failover Record Type, choose Secondary.

For Set ID, enter a name.

Note: The name for the Set ID on your failover endpoint must be different from the name of the Set ID on your primary endpoint.

For Associate with Health Check, choose No.

Choose Create records.



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