

# SOA-C01<sup>Q&As</sup>

AWS Certified SysOps Administrator - Associate (SOA-C01)

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### QUESTION 1

On a weekly basis, the Administrator for a photo sharing website receives an archive of all files users have uploaded the previous week. these file archives can be as large as 10TB in size. For legal reasons, these archives must be saved with no possibility of someone deleting or modifying these archives. Occasionally, there may be a need to view the contents, but it is expected that retrieving them can take three or more hours.

What should the Administrator do with the weekly archive?

- A. Upload the file to Amazon S3 through the AWS Management Console and apply a lifecycle policy to change the storage class to Amazon Glacier.
- B. Upload the archive to the Amazon Glacier with the AWS CLI and enable Vault Lock.
- C. Create a Linux EC2 instance with an encrypted Amazon EBS volume and copy each weekly archive file for this instance.
- D. Create a file gateway attached to a file share on an S3 bucket with the storage class S3 Infrequent Access. Upload the archives via the gateway.

Correct Answer: A

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### QUESTION 2

A company's website went down for several hours. The root cause was a full disk on one of the company's Amazon EC2 instances.

Which steps should the SysOps Administrator take to prevent this from happening in the future?

- A. Configure Amazon CloudWatch Events to filter and forward AWS Health events for disk space utilization to an Amazon SNS topic to notify the Administrator.
- B. Create an AWS Lambda function to describe the volume status for each EC2 instance. Post a notification to an Amazon SNS topic when a volume status is impaired.
- C. Enable detailed monitoring for the EC2 instances. Create an Amazon CloudWatch alarm to notify the Administrator when disk space is running low.
- D. Use the Amazon CloudWatch agent on the EC2 instances to collect disk metrics. Create a CloudWatch alarm to notify the Administrator when disk space is running low.

Correct Answer: D

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### QUESTION 3

An organization has configured two single availability zones. The Auto Scaling groups are configured in separate zones. The user wants to merge the groups such that one group spans across multiple zones. How can the user configure this?

- A. Run the command `as-join-auto-scaling-group` to join the two groups
- B. Run the command `as-update-auto-scaling-group` to configure one group to span across zones and delete the other group
- C. Run the command `as-copy-auto-scaling-group` to join the two groups
- D. Run the command `as-merge-auto-scaling-group` to merge the groups

Correct Answer: B

Explanation: If the user has configured two separate single availability zone Auto Scaling groups and wants to merge them then he should update one of the groups and delete the other one. While updating the first group it is recommended that the user should increase the size of the minimum, maximum and desired capacity as a summation of both the groups.

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### QUESTION 4

A medical imaging company needs to process large amounts of imaging data in real time using a specific instance type. The company wants to guarantee sufficient resource capacity for 1 year.

Which action will meet these requirements in the MOST cost-effective manner?

- A. Create 1-year On-Demand Capacity Reservations in the specific Availability Zones.
- B. Launch Amazon EC2 instances with termination protection enabled.
- C. Purchase 1-year Reserved Instances in the specific Availability Zones.
- D. Use a Spot Fleet across multiple Availability Zones.

Correct Answer: A

On-demand capacity reservation in AZ is the only logical way to guarantee resource capacity for a specific period of time. You cannot use spot fleet since it can terminate anytime. Reserved instances are also not a viable option because the images need resource capacity continuously.

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### QUESTION 5

An organization is planning to use AWS for 5 different departments. The finance department is responsible to pay for all the accounts. However, they want the cost separation for each account to map with the right cost center. How can the finance department achieve this?

- A. Create 5 separate accounts and make them a part of one consolidate billing
- B. Create 5 separate accounts and use the IAM cross account access with the roles for better management

- C. Create 5 separate IAM users and set a different policy for their access
- D. Create 5 separate IAM groups and add users as per the department's employees

Correct Answer: A

Explanation: AWS consolidated billing enables the organization to consolidate payments for multiple Amazon Web Services (AWS) accounts within a single organization by making a single paying account. Consolidated billing enables the organization to see a combined view of the AWS charges incurred by each account as well as obtain a detailed cost report for each of the individual AWS accounts associated with the paying account.

#### QUESTION 6

\_\_\_\_\_ in VPC are stateful where return traffic is automatically allowed, regardless of any rules.

- A. Security groups
- B. Availability Zones
- C. Network ACLs
- D. Geo Redundant Servers

Correct Answer: A

Explanation: Security groups in VPC are stateful where return traffic is automatically allowed without having to go through the whole evaluation process again. Network ACLs are stateless, meaning return traffic must be explicitly allowed by rules. Reference: [http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC\\_Security.html](http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_Security.html)

#### QUESTION 7

A company is using an AWS KMS customer master key (CMK) with imported key material. The company references the CMK by its alias in the Java application to encrypt data. The CMK must be rotated every 6 months.

What is the process to rotate the key?

- A. Enable automatic key rotation for the CMK, and specify a period of 6 months.
- B. Create a new CMK with new imported material, and update the key alias to point to the new CMK.
- C. Delete the current key material, and import new material into the existing CMK.
- D. Import a copy of the existing key material into a new CMK as a backup, and set the rotation schedule for 6 months.

Correct Answer: A

Explanation: Cryptographic best practices discourage extensive reuse of encryption keys. To create new cryptographic material for your AWS Key Management Service (AWS KMS) customer master keys (CMKs), you can create new CMKs, and then change your applications or aliases to use the new CMKs. Or, you can enable automatic key rotation for an existing CMK.

When you enable automatic key rotation for a customer managed CMK, AWS KMS generates new cryptographic material for the CMK every year. AWS KMS also saves the CMK's older cryptographic material in perpetuity so it can

be used to decrypt data that it encrypted. AWS KMS does not delete any rotated key material until you delete the CMK. Reference: <https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html>

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### QUESTION 8

A company creates custom AMI images by launching new Amazon EC2 instances from an AWS CloudFormation template. It installs and configures necessary software through AWS OpsWorks, and takes images of each EC2 instance. The process of installing and configuring software can take between 2 to 3 hours, but at times, the process stalls due to installation errors.

The SysOps Administrator must modify the CloudFormation template so if the process stalls, the entire stack will fail and roll back.

Based on these requirements, what should be added to the template?

- A. Conditions with a timeout set to 4 hours.
- B. CreationPolicy with a timeout set to 4 hours.
- C. DependsOn with a timeout set to 4 hours.
- D. Metadata with a timeout set to 4 hours.

Correct Answer: A

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### QUESTION 9

An application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an Auto Scaling group across multiple Availability Zones. The Information Security team wants to track application requests by the originating IP and the EC2 instance that processes the request.

Which of the following tools or services provides this information?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. Elastic Load Balancing access logs
- D. VPC Flow Logs

Correct Answer: C

Reference: <https://boto3.amazonaws.com/v1/documentation/api/latest/reference/services/elb.html>

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### QUESTION 10

A user is trying to create an EBS volume with the highest PIOPS supported by EBS. What is the minimum size of EBS required to have the maximum IOPS?

- A. 124
- B. 150
- C. 134
- D. 128

Correct Answer: C

Explanation:

A provisioned IOPS EBS volume can range in size from 10 GB to 1 TB and the user can provision up to 4000 IOPS per volume. The ratio of IOPS provisioned to the volume size requested should be a maximum of 30.

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#### QUESTION 11

A company uses multiple accounts for its applications. Account A manages the company's Amazon Route 53 domains and hosted zones. Account B uses a load balancer fronting the company's web servers.

How can the company use Route 53 to point to the load balancer in the MOST cost-effective and efficient manner?

- A. Create an Amazon EC2 proxy in Account A that forwards requests to Account B.
- B. Create a load balancer in Account A that points to the load balancer in Account B.
- C. Create a CNAME record in Account A pointing to an alias record to the load balancer in Account B.
- D. Create an alias record in Account A pointing to the load balancer in Account B.

Correct Answer: D

Reference: <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-elb-loadbalancer.html>

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#### QUESTION 12

A user has configured ELB with Auto Scaling. The user suspended the Auto Scaling AlarmNotification which notifies Auto Scaling for CloudWatch alarms. process for a while. What will Auto Scaling do during this period?

- A. AWS will not receive the alarms from CloudWatch
- B. AWS will receive the alarms but will not execute the Auto Scaling policy
- C. Auto Scaling will execute the policy but it will not launch the instances until the process is resumed
- D. It is not possible to suspend the AlarmNotification process

Correct Answer: B

Explanation: Auto Scaling performs various processes, such as Launch, Terminate Alarm Notification etc. The user can

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also suspend individual process. The AlarmNotification process type accepts notifications from the Amazon CloudWatch alarms that are associated with the Auto Scaling group. If the user suspends this process type, Auto Scaling will not automatically execute the scaling policies that would be triggered by the alarms.

### QUESTION 13

A company uses many Amazon Elastic Block Store (Amazon EBS) volumes. The company wants to use Amazon Data Lifecycle Manager (Amazon DLM) to manage the lifecycle of EBS snapshots that have tags of "Production" and "Compliance".

Which combination of the following are needed to turn on this feature? (Choose two.)

- A. A minimum storage requirement of 5 GB
- B. One IAM role for Amazon DLM and another IAM role for the users
- C. Encryption of the EBS volumes
- D. A minimum baseline performance of 3 IOPS/GB
- E. Tagging of the EBS volumes

Correct Answer: BE

### QUESTION 14

An application is running on Amazon EC2 instances behind a Classic Load Balancer. The instances run in an Auto Scaling group across multiple Availability Zones. Occasionally multiple incoming requests will receive a 5xx HTTP response when making a request to the Classic Load Balancer. From the Amazon CloudWatch metrics, a SysOps Administrator observes the Elastic Load Balancing (ELB) SpillOverCount metric to be greater than zero during these occasions.

These errors can be avoided by triggering scaling actions on which ELB metric?

- A. HealthyHostCount
- B. BackendConnectionErrors
- C. SurgeQueueLength
- D. UnHealthyHostCount

Correct Answer: C

### QUESTION 15

A SysOps Administrator has written an AWS Lambda function to launch new Amazon EC2 instances and deployed it in

the us-east-1 region. The Administrator tested it by launching a new t2.nano instance in the us-east-1 region and it performed as expected. However, when the region name was updated in the Lambda function to launch an EC2 instance in the us-west-1 region, it failed.

What is causing this error?

- A. The AMI ID must be updated for the us-west-1 region in the Lambda function as well
- B. The Lambda function can only launch EC2 instances in the same region where it is deployed
- C. The Lambda function does not have the necessary IAM permission to launch more than one EC2 instance
- D. The instance type defined in the Lambda function is not available in the us-west-1 region

Correct Answer: A

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