SOA-C02^{Q&As}

AWS Certified SysOps Administrator - Associate (SOA-C02)

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QUESTION 1

A company has many accounts in an organization in AWS Organizations. The company must automate resource provisioning from the organization\\\'s management account to the member accounts. Which solution will meet this requirement?

A. Create an AWS CloudFormation change set. Deploy the change set to all member accounts.

B. Create an AWS CloudFormation nested stack. Deploy the nested stack to all member accounts.

C. Create an AWS CloudFormation stack set. Deploy the stack set to all member accounts.

D. Create an AWS Serverless Application Model (AWS SAM) template. Deploy the template to all member accounts.

Correct Answer: C

https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/stacksets-concepts.html
https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/what-is-cfnstacksets.html

QUESTION 2

An AWS Lambda function is intermittently failing several times a day A SysOps administrator must find out how often this error has occurred in the last 7 days. Which action will meet this requirement in the MOST operationally efficient manner?

A. Use Amazon Athena to query the Amazon CloudWatch logs that are associated with the Lambda function

B. Use Amazon Athena to query the AWS CloudTrail logs that are associated with the Lambda function

C. Use Amazon CloudWatch Logs Insights to query the associated Lambda function logs

D. Use Amazon Elasticsearch Service (Amazon ES) to stream the Amazon CloudWatch logs for the Lambda function

Correct Answer: C

QUESTION 3

A company uses an Amazon Simple Queue Service (Amazon SQS) standard queue with its application. The application sends messages to the queue with unique message bodies The company decides to switch to an SQS FIFO queue.

What must the company do to migrate to an SQS FIFO queue?

A. Create a new SQS FIFO gueue Turn on content based deduplication on the new FIFO queue Update the application to include a message group ID in the messages

B. Create a new SQS FIFO queue Update the application to include the DelaySeconds parameter in the messages

C. Modify the queue type from SQS standard to SQS FIFO Turn off content-based deduplication on the queue Update the application to include a message group ID in the messages

D. Modify the queue type from SQS standard to SQS FIFO Update the application to send messages with identical message bodies and to include the DelaySeconds parameter in the messages

Correct Answer: A

FIFO queues don\\'t support per-message delays, only per-queue delays. If your application sets the same value of the DelaySeconds parameter on each message, you must modify your application to remove the per-message delay and set DelaySeconds on the entire queue instead.
https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/FIFO-queues-moving.html

QUESTION 4

A SysOps administrator is attempting to download patches from the internet into an instance in a private subnet. An internet gateway exists for the VPC, and a NAT gateway has been deployed on the public subnet; however, the instance has no internet connectivity. The resources deployed into the private subnet must be inaccessible directly from the public internet.

Public Subnet (10.0.1.0/24) Route Table
Destination	Target
10.0.0.0/16	local
0.0.0.0/0	IGW

Private Subnet (10.0.2.0/24) Route Table
Destination	Target
10.0.0.0/16	local

What should be added to the private subnet\\'s route table in order to address this issue, given the information provided?

A. 0.0.0.0/0 IGW

B. 0.0.0.0/0 NAT

C. 10.0.1.0/24 IGW

D. 10.0.1.0/24 NAT

Correct Answer: B

To enable instances in a private subnet to connect to the internet, you can create a NAT gateway or launch a NAT instance in a public subnet. Then add a route for the private subnet\\'s route table that routes IPv4 internet traffic (0.0.0.0/0) to the NAT device.

https://docs.aws.amazon.com/vpc/latest/userguide/route-table-options.html#route-tables-nat

QUESTION 5

A company deploys a new application to Amazon EC2 instances. The application code is stored in an AWS CodeCommit repository. The company uses an AWS CodePipeline pipeline to deploy the code to the EC2 instances

through a continuous integration and continuous delivery (CI/CD) process.

A SysOps administrator needs to ensure that sensitive database information is configured properly on the EC2 instances to prevent accidental leakage of credentials.

Which solutions will store and retrieve the sensitive information in the MOST secure manner? (Choose two.)

A. Store the values in AWS Secrets Manager. Update the code to retrieve these values when the application starts. Store the values as environmental variables that the application can use.

B. Store the values in AWS Systems Manager Parameter Store as secret strings. Update the code to retrieve these values when the application starts. Store the values as environmental variables that the application can use.

C. Store the values in an AWS Lambda function. Update the code to invoke the Lambda function when the application starts. Configure the Lambda function to inject the values as environmental variables that the application can use.

D. Store the configuration information in a file on the EC2 instances. Ensure that the underlying drives are encrypted by AWS Key Management Service (AWS KMS). Update the application to read the file when the application starts. Store the values as environmental variables.

E. Store the values in a text file in an Amazon S3 bucket. In the CI/CD pipeline, copy the file to the EC2 instance in an appropriate location on a disk that the application can read.

Correct Answer: AB