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QUESTION 1

A company is migrating its applications to AWS. The applications will be deployed to AWS accounts owned by business units. The company has several teams of developers who are responsible for the development and maintenance of all applications. The company is expecting rapid growth in the number of users.

The company's chief technology officer has the following requirements:

1.

Developers must launch the AWS infrastructure using AWS CloudFormation.

2.

Developers must not be able to create resources outside of CloudFormation.

3.

The solution must be able to scale to hundreds of AWS accounts.

Which of the following would meet these requirements? (Choose two.)

A. Using CloudFormation, create an IAM role that can be assumed by CloudFormation that has permissions to create all the resources the company needs. Use CloudFormation StackSets to deploy this template to each AWS account.

B. In a central account, create an IAM role that can be assumed by developers, and attach a policy that allows interaction with CloudFormation. Modify the AssumeRolePolicyDocument action to allow the IAM role to be passed to CloudFormation.

C. Using CloudFormation, create an IAM role that can be assumed by developers, and attach policies that allow interaction with and passing a role to CloudFormation. Attach an inline policy to deny access to all other AWS services. Use CloudFormation StackSets to deploy this template to each AWS account.

D. Using CloudFormation, create an IAM role for each developer, and attach policies that allow interaction with CloudFormation. Use CloudFormation StackSets to deploy this template to each AWS account.

E. In a central AWS account, create an IAM role that can be assumed by CloudFormation that has permissions to create the resources the company requires. Create a CloudFormation stack policy that allows the IAM role to manage resources. Use CloudFormation StackSets to deploy the CloudFormation stack policy to each AWS account.

Correct Answer: AB

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html

QUESTION 2

A company decided to purchase Amazon EC2 Reserved Instances. A solutions architect is tasked with implementing a solution where only the master account in AWS Organizations is able to purchase the Reserved Instances. Current and future member accounts should be blocked from purchasing Reserved Instances.

Which solution will meet these requirements?

A. Create an SCP with the Deny effect on the `ec2:PurchaseReservedInstancesOffering` action. Attach the SCP to the



root of the organization.

B. Create a new organizational unit (OU) Move all current member accounts to the new OU. Create an SCP with the Deny effect on the ec2:PurchaseReservedInstancesOffering action. Attach the SCP to the new OU.

C. Create an AWS Config rule event that triggers automation that will terminate any Reserved Instances launched by member accounts.

D. Create two new organizational units (OUs): OU1 and OU2. Move all member accounts to OU2 and the master account to OU1. Create an SCP with the Allow effect on the ec2:PurchaseReservedInstancesOffering action. Attach the SCP to OU1.

Correct Answer: C

QUESTION 3

A company collects a steady stream of 10 million data records from 100,000 sources each day. These records are written to an Amazon RDS MySQL DB. A query must produce the daily average of a data source over the past 30 days. There are twice as many reads as writes. Queries to the collected data are for one source ID at a time.

How can the Solutions Architect improve the reliability and cost effectiveness of this solution?

A. Use Amazon Aurora with MySQL in a Multi-AZ mode. Use four additional read replicas.

B. Use Amazon DynamoDB with the source ID as the partition key and the timestamp as the sort key. Use a Time to Live (TTL) to delete data after 30 days.

C. Use Amazon DynamoDB with the source ID as the partition key. Use a different table each day.

D. Ingest data into Amazon Kinesis using a retention period of 30 days. Use AWS Lambda to write data records to Amazon ElastiCache for read access.

Correct Answer: B

Reference: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Introduction.html>

QUESTION 4

In Amazon IAM, what is the maximum length for a role name?

A. 128 characters

B. 512 characters

C. 64 characters

D. 256 characters

Correct Answer: C

In Amazon IAM, the maximum length for a role name is 64 characters.

Reference: <http://docs.aws.amazon.com/IAM/latest/UserGuide/LimitationsOnEntities.html>



QUESTION 5

A company runs a highly available data collection application on Amazon EC2 in the eu-north-1 Region. The application collects data from end-user devices and writes records to an Amazon Kinesis data stream and a set of AWS Lambda functions that process the records. The company persists the output of the record processing to an Amazon S3 bucket in eu-north-1. The company uses the data in the S3 bucket as a data source for Amazon Athena.

- A. In each of the two new Regions, set up the Lambda functions to run in a VPC. Set up an S3 gateway endpoint in that VPC.
- B. Turn on S3 Transfer Acceleration on the S3 bucket in eu-north-1. Change the application to use the new S3 accelerated endpoint when the application uploads data to the S3 bucket.
- C. Create an S3 bucket in each of the two new Regions. Set the application in each new Region to upload to its respective S3 bucket. Set up S3 Cross-Region Replication to replicate data to the S3 bucket in eu-north-1.
- D. Increase the memory requirements of the Lambda functions to ensure that they have multiple cores available. Use the multipart upload feature when the application uploads data to Amazon S3 Lambda.

Correct Answer: A

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