Amazon

AWS-Certified-Solutions-Architect-Professional

AWS Certified Solutions Architect – Professional

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QUESTION 1

A company is using AWS Organizations to manage 15 AWS accounts. A solutions architect wants to run advanced analytics on the company's cloud expenditures. The cost data must be gathered and made available from an analytics account. The analytics application runs in a VPC and must receive the raw cost data each night to run the analytics.

The solution architect has decided to use the Cost Explorer API to fetch the raw data and store the data in Amazon S3 in Json format. Access to the raw cost data must be restricted to the analytics application. The solution architect has already created an AWS Lambda function to collect data by the using the Cost Explorer API.

Which additional actions should the solutions architect take to meet these requirements?

A. Create an IAM role in the Organizations master account with permissions to use the Cost Explorer

API, and establish trust between the role and the analytics account. Update the Lambda function role and add sts AssumeRole permissions. Assume the role in the master account from the

Lambda function code by usinf the AWS security Token Service (AWS STS) AssumeRole API call.

Create a gateway-endpoint for Amazon S3 in the analytics VPC. Create an S3 bucket policy that allows access only from S3 endpoint.

B. Create an IAM role in the analytics account with permissions to use the Cost Explorer API. Update the Lambda function and assign the new role. Create a gateway endpoint for Amazon S3 in the analytics VPC. Create an S3 bucket policy that allows access from the analytics VPC by using the

aws SourceVPC condition

C. Create an IAM role in the Organizations master account with permissions to use the Cost Explorer

API, and establish trust between the role and the analytics account. Update the Lambda function role and add sts AssumeRole permissions. Assume the role in the master account from the

Lambda function code by using the AWS security Token Service (AWS STS) AssumeRole API call.

Create an interface endpoint for Amazon S3 in the analytics VPC. Create an S3 bucket policy that allows access only from the analytics VPC private CIDR range by using the aws SourceIp condition.

D. Create an IAM role in the analytics account with permissions to use the Cost Explorer API. Update the Lambda function and assign the new role. Create an interface endpoint for Amazon S3 in the analytics VPC. Create an S3 bucket policy that allows only from the S3 endpoint.

Correct Answer: C

QUESTION 2

A software company hosts an application on AWS with resources in multiple AWS accounts and

Regions The application runs on a group of Amazon EC2 instances m an application VPC located in the us-east-1 Region with an IPv4 CIDR block of 10.10.0.0/16. In a different AWS account, a shared services VPC is located in the us-east-2 Region with an IPv4 CIDR block of 10.10.10.0/24. When a cloud engineer uses AWS CloudFormation to attempt to peer the application VPC with the shared services VPC. an error message indicates a peering failure.

Which factors could cause this error? (Select TWO)

A. The IPv4 CIDR ranges of the tv/o VPCs overlap

B. The VPCs are not in the same Region

C. One or both accounts do not have access to an internet gateway

D. One of the VPCs was not shared through AWS Resource Access Manager.

E. The IAM role in the peer accepter account does not have the correct permissions.

Correct Answer: A,B

QUESTION 3

A company has five physical data centers in specific locations around the world. Each data center has hundreds of physical servers with a mix of Windows and Linux based applications and database services Each data center also has an AVVS Direct Connect connection of 10 Gbps to AWS with a company-approved VPN solution to ensure that data transfer is secure The company needs to shut down the existing data centers as quickly as possible and migrate the servers and applications to

AWS

Which solution meets these requirements?

A. Install the AWS Server Migration Service (AWS SMS) connector onto each physical machine Use the AWS Management Console to select the servers from the server catalog and start the replication Once the replication is complete launch the Amazon EC2 instances created by the service

B. Install the AWS DataSync agent onto each physical machine Use the AWS Management Console to configure the destination to be an AMI and start the replication Once the replication is complete launch the Amazon EC2 instances created by the service

C. Install the CloudEndure Migration agent onto each physical machine Create a migration blueprint and start the replication Once the replication is complete, launch the Amazon EC2 instances in cutover mode.

D. Install the AWS Application Discovery Service agent onto each physical machine Use the AWS

Migration Hub import option to start the replication Once the replication is complete, launch the

Amazon EC2 instances created by the service

Correct Answer: A

QUESTION 4

A mobile app has become very popular and usage has gone from a few hundred to millions of users

Users capture and upload images of activities within a city and provide ratings and recommendations

Data access patterns are unpredictable The current application is hosted on Amazon EC2 instances behind an Application Load Balancer (ALB) The application is experiencing slowdowns and costs are growing rapidly.

Which changes should a solutions architect mane to tr*e application architecture to control costs and improve performance?

A. Create an Amazon CloudFront distribution and place trie ALB behind the distribution Store static content in Amazon S3 hi an Infrequent Access storage class

B. Store static content in an Amazon S3 bucket using the intelligent Tiering storage class Use an Amazon CloudFront distribution m front of the S3 bucket and the ALB

C. Place AWS Global Accelerator in front of the ALB Migrate the static content to Amazon EFS and then run all AWS Lambda function to resize the images during the migration process

D. Move the application code to AWS Fargate containers and swap out the tC2 instances with the

Fargate containers

Correct Answer: D

QUESTION 5

A mobile gaming application publishes data continuously to Amazon Kinesis Data Streams. An AWS

Lambda function processes records from the data stream and writes to an Amazon DynamoDB table.

The DynamoDB table has an auto scaling policy enabled with the target utilization set to 70%. For several minutes at the start and end of each day, there is a spike in traffic that often exceeds five times the normal load. The company notices the GetRecords.IteratorAge Milliseconds metric of the

Kinesis data stream temporarily spikes to over a minute for several minutes. The AWS Lambda function writes Provisioned Throughput Exceeded Exception messages to Amazon CloudWatch Logs during these times, and some records are redirected to the dead letter queue. No exceptions are thrown by the Kinesis producer on the gaming application What change should the company make to resolve this issue?

A. Use Application Auto Scaling to set a scaling schedule to scale out write capacity on the

DynamoDB table during predictable load spikes.

B. Use Amazon CloudWatch Events to monitor the dead letter queue and invoke a Lambda function to automatically retry failed records.

C. Reduce the DynamoDB table auto scaling policy's target utilization to 20% to more quickly respond to load spikes.

D. Increase the number of shards in the Kinesis data stream to increase throughput capacity.

Correct Answer: C

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