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AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A solutions architect is designing a new API using Amazon API Gateway that will receive requests from users. The volume of requests is highly variable; several hours can pass without receiving a single request. The data processing will take place asynchronously, but should be completed within a few seconds after a request is made.

Which compute service should the solutions architect have the API invoke to deliver the requirements at the lowest cost?

A. An AWS Glue job

B. An AWS Lambda function

C. A containerized service hosted in Amazon Elastic Kubernetes Service (Amazon EKS)

D. A containerized service hosted in Amazon ECS with Amazon EC2

Correct Answer: B

API Gateway + Lambda is the perfect solution for modern applications with serverless architecture.

QUESTION 2

A company runs a web application that is backed by Amazon RDS. A new database administrator caused data loss by accidentally editing information in a database table To help recover from this type of incident, the company wants the ability to restore the database to its state from 5 minutes before any change within the last 30 days.

Which feature should the solutions architect include in the design to meet this requirement?

A. Read replicas

B. Manual snapshots

C. Automated backups

D. Multi-AZ deployments

Correct Answer: C

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_WorkingWithAutomatedBackups.html

QUESTION 3

A solutions architect is designing a new hybrid architecture to extend a company s on-premises infrastructure to AWS The company requires a highly available connection with consistent low latency to an AWS Region. The company needs to minimize costs and is willing to accept slower traffic if the primary connection fails.

What should the solutions architect do to meet these requirements?

A. Provision an AWS Direct Connect connection to a Region Provision a VPN connection as a backup if the primary Direct Connect connection fails.

B. Provision a VPN tunnel connection to a Region for private connectivity. Provision a second VPN tunnel for private connectivity and as a backup if the primary VPN connection fails.

C. Provision an AWS Direct Connect connection to a Region Provision a second Direct Connect connection to the same Region as a backup if the primary Direct Connect connection fails.

D. Provision an AWS Direct Connect connection to a Region Use the Direct Connect failover attribute from the AWS CLI to automatically create a backup connection if the primary Direct Connect connection fails.

Correct Answer: A

Direct Connect goes throught 1 Gbps, 10 Gbps or 100 Gbps and the VPN goes up to 1.25 Gbps.

https://docs.aws.amazon.com/whitepapers/latest/aws-vpc-connectivity-options/aws-direct-connect-vpn.html

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QUESTION 4

A company is implementing a shared storage solution for a gaming application that is hosted in the AWS Cloud. The company needs the ability to use Lustre clients to access data. The solution must be fully managed.

Which solution meets these requirements?

A. Create an AWS DataSync task that shares the data as a mountable file system. Mount the file system to the application server.

B. Create an AWS Storage Gateway file gateway. Create a file share that uses the required client protocol. Connect the application server to the file share.

C. Create an Amazon Elastic File System (Amazon EFS) file system, and configure it to support Lustre. Attach the file system to the origin server. Connect the application server to the file system.

D. Create an Amazon FSx for Lustre file system. Attach the file system to the origin server. Connect the application server to the file system.

Correct Answer: D

To meet the requirements of a shared storage solution for a gaming application that can be accessed using Lustre clients and is fully managed, the best solution would be to use Amazon FSx for Lustre. Amazon FSx for Lustre is a fully managed file system that is optimized for compute-intensive workloads, such as high-performance computing, machine learning, and gaming. It provides a POSIX-compliant file system that can be accessed using Lustre clients and offers high

performance, scalability, and data durability.

This solution provides a highly available, scalable, and fully managed shared storage solution that can be accessed using Lustre clients. Amazon FSx for Lustre is optimized for compute-intensive workloads and provides high performance

and durability.

QUESTION 5

A company has an AWS Lambda function that needs read access to an Amazon S3 bucket that is located in the same

AWS account. Which solution will meet these requirement in the MOST secure manner?

A. Apply an S3 bucket pokey that grants road access to the S3 bucket

B. Apply an IAM role to the Lambda function. Apply an IAM policy to the role to grant read access to the S3 bucket.

C. Embed an access key and a secret key In the Lambda function\'s coda to grant the required IAM permissions for read access to the S3 bucket

D. Apply an IAM role to the Lambda function. Apply an IAM policy to the role to grant read access to all S3 buckets In the account

Correct Answer: B

This solution satisfies the needs in the most secure manner:

1.

An IAM role provides temporary credentials to the Lambda function to access AWS resources. The function does not have persistent credentials.

2.

The IAM policy grants least privilege access by specifying read access only to the specific S3 bucket needed. Access is not granted to all S3 buckets.

3.

If the Lambda function is compromised, the attacker would only gain access to the one specified S3 bucket. They would not receive broad access to resources.

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