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Exam Question 281

A company has an eCommerce application that stores data in an on-premises SQL database. The company has decided to migrate this database to AWS. However, as part

of the migration, the company wants to find a way to attain sub-millisecond responses to common read requests.

A solutions architect knows that the increase in speed is paramount and that a small percentage of stale data returned in the database reads is acceptable.

What should the solutions architect recommend?

A. Build Amazon RDS read replicas.
B. Build the database as a larger instance type.
C. Build a database cache using Amazon ElastiCache.
D. Build a database cache using Amazon Elasticsearch Service (Amazon ES).

Correct Answer:
C. Build a database cache using Amazon ElastiCache.

Answer Description:
To attain sub-millisecond responses to common read requests. REDIS (REmote DIctionary Server) delivers sub-millisecond response times enabling millions of requests per second for real-time applications.

Exam Question 282

A company has an application that ingests incoming messages. These messages are then quickly consumed by dozens of other applications and microservices. The number of messages varies drastically and sometimes spikes as high as 100,000 each second. The company wants to decouple the solution and increase scalability.

Which solution meets these requirements?

A. Persist the messages to Amazon Kinesis Data Analytics. All the applications will read and process the messages.
B. Deploy the application on Amazon EC2 instances in an Auto Scaling group, which scales the number of EC2 instances based on CPU metrics.

C. Write the messages to Amazon Kinesis Data Streams with a single shard. All applications will read from the stream and process the messages.
D. Publish the messages to an Amazon Simple Notification Service (Amazon SNS) topic with one or more Amazon Simple Queue Service (Amazon SQS) subscriptions. All applications then process the messages from the queues.

Correct Answer:
D. Publish the messages to an Amazon Simple Notification Service (Amazon SNS) topic with one or more Amazon Simple Queue Service (Amazon SQS) subscriptions. All applications then process the messages from the queues.

Answer Description:
Q: How large can Amazon SQS message queues be?
A single Amazon SQS message queue can contain an unlimited number of messages. However, there is a 120,000 quota for the number of inflight messages for a standard queue and 20,000 for a FIFO queue. Messages are inflight after they have been received from the queue by a consuming component, but have not yet been deleted from the queue.

References:

- Amazon SQS FAQs

Exam Question 283

A company is backing up on-premises databases to local file server shares using the SMB protocol. The company requires immediate access to 1 week of backup files to meet recovery objectives. Recovery after a week is less likely to occur, and the company can tolerate a delay in accessing those older backup files.

What should a solutions architect do to meet these requirements with the LEAST operational effort?

A. Deploy Amazon FSx for Windows File Server to create a file system with exposed file shares with sufficient storage to hold all the desired backups.
B. Deploy an AWS Storage Gateway file gateway with sufficient storage to hold 1 week of backups. Point the backups to SMB shares from the file gateway.
C. Deploy Amazon Elastic File System (Amazon EFS) to create a file system with exposed NFS shares with sufficient storage to hold all the desired backups.
D. Continue to back up to the existing file shares. Deploy AWS Database Migration Service (AWS DMS) and define a copy task to copy backup files older than 1 week to Amazon S3, and delete the backup files from the local file store.

Correct Answer:
A. Deploy Amazon FSx for Windows File Server to create a file system with exposed file shares with sufficient storage to hold all the desired backups.

References:

- AWS Storage Blog > Back up your on-premises applications to the cloud using AWS Storage Gateway

Exam Question 284

A company has developed a microservices application. It uses a client-facing API with Amazon API Gateway and multiple internal services hosted on Amazon EC2 instances to process user requests. The API is designed to support unpredictable surges in traffic, but internal services may become overwhelmed and unresponsive for a period of time during surges. A solutions architect needs to design a more reliable solution that reduces errors when internal services become unresponsive or unavailable.

Which solution meets these requirements?

A. Use AWS Auto Scaling to scale up internal services when there is a surge in traffic.
B. Use different Availability Zones to host internal services. Send a notification to a system administrator when an internal service becomes unresponsive.
C. Use an Elastic Load Balancer to distribute the traffic between internal services.

Configure Amazon CloudWatch metrics to monitor traffic to internal services.
D. Use Amazon Simple Queue Service (Amazon SQS) to store user requests as they arrive. Change the internal services to retrieve the requests from the queue for processing.

Correct Answer:
D. Use Amazon Simple Queue Service (Amazon SQS) to store user requests as they arrive. Change the internal services to retrieve the requests from the queue for processing.

Exam Question 285

A company is hosting 60 TB of production-level data in an Amazon S3 bucket. A solution architect needs to bring that data on-premises for quarterly audit requirements. This export of data must be encrypted while in transit. The company has low network bandwidth in place between AWS and its on-premises data center.

What should the solutions architect do to meet these requirements?

A. Deploy AWS Migration Hub with 90-day replication windows for data transfer.
B. Deploy an AWS Storage Gateway volume gateway on AWS. Enable a 90-day replication window to transfer the data.
C. Deploy Amazon Elastic File System (Amazon EFS), with lifecycle policies enabled, on AWS. Use it to transfer the data.
D. Deploy an AWS Snowball device in the on-premises data center after completing an export job request in the AWS Snowball console.

Correct Answer:
D. Deploy an AWS Snowball device in the on-premises data center after completing an export job request in the AWS Snowball console.

Answer Description:
AWS Snowball with the Snowball device has the following features: 80 TB and 50 TB models are available in US Regions; 50 TB model available in all other AWS Regions.

References:

- AWS Snowball > User Guide > What Is an AWS Snowball Device?

Exam Question 286

A company uses Amazon S3 to store its confidential audit documents. The S3 bucket uses bucket policies to restrict access to audit team IAM user credentials according to the principle of least privilege. Company managers are worried about accidental deletion of documents in the S3 bucket and want a more secure solution.

What should a solutions architect do to secure the audit documents?

A. Enable the versioning and MFA Delete features on the S3 bucket.
B. Enable multi-factor authentication (MFA) on the IAM user credentials for each audit team IAM user account.
C. Add an S3 Lifecycle policy to the audit team's IAM user accounts to deny the s3:DeleteObject action during audit dates.
D. Use AWS Key Management Service (AWS KMS) to encrypt the S3 bucket and restrict audit team IAM user accounts from accessing the KMS key.

Correct Answer:
A. Enable the versioning and MFA Delete features on the S3 bucket.

References:

- Amazon Simple Storage Service > User Guide > Security Best Practices for Amazon S3

Exam Question 287

A company is launching a new application deployed on an Amazon Elastic Container Service (Amazon ECS) cluster and is using the Fargate launch type for ECS tasks. The company is monitoring CPU and memory usage because it is expecting high traffic to

the application upon its launch. However, the company wants to reduce costs when utilization decreases.

What should a solutions architect recommend?

A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns.
B. Use an AWS Lambda function to scale Amazon ECS based on metric breaches that trigger an Amazon CloudWatch alarm.
C. Use Amazon EC2 Auto Scaling with simple scaling policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.
D. Use AWS Application Auto Scaling with target tracking policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.

Correct Answer:
A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns.

Exam Question 288

A user wants to list the IAM role that is attached to their Amazon EC2 instance. The user has login access to the EC2 instance but does not have IAM permissions.

What should a solutions architect do to retrieve this information?

A. Run the following EC2 command:

```
curl http://169.254.169.254/latest/meta-data/iam/info
```

B. Run the following EC2 command:

```
curl http://169.254.169.254/latest/user-data/iam/info
```

C. Run the following EC2 command:

```
http://169.254.169.254/latest/dynamic/instance-identity/
```

D. Run the following AWS CLI command:

```
aws iam get-instance-profile --instance-profile-name ExampleInstanceProfile
```

Correct Answer:

A. Run the following EC2 command:

```
curl http://169.254.169.254/latest/meta-data/iam/info
```

References:

- Amazon Elastic Compute Cloud > User Guide for Linux Instances > IAM roles for Amazon EC2

Exam Question 289

A company has an application that is hosted on Amazon EC2 instances in two private subnets. A solutions architect must make the application available on the public internet with the least amount of administrative effort.

What should the solutions architect recommend?

A. Create a load balancer and associate two public subnets from the same Availability Zones as the private instances. Add the private instances to the load balancer.
B. Create a load balancer and associate two private subnets from the same Availability Zones as the private instances. Add the private instances to the load balancer.
C. Create an Amazon Machine Image (AMI) of the instances in the private subnet and restore in the public subnet. Create a load balancer and associate two public subnets from the same Availability Zones as the public instances.

D. Create an Amazon Machine Image (AMI) of the instances in the private subnet and restore in the public subnet. Create a load balancer and associate two private subnets from the same Availability Zones as the public instances.

Correct Answer:
C. Create an Amazon Machine Image (AMI) of the instances in the private subnet and restore in the public subnet. Create a load balancer and associate two public subnets from the same Availability Zones as the public instances.

Exam Question 290

A company is moving its on-premises Oracle database to Amazon Aurora PostgreSQL. The database has several applications that write to the same tables. The applications need to be migrated one by one with a month in between each migration Management has expressed concerns that the database has a high number of reads and writes. The data must be kept in sync across both databases throughout tie migration.

What should a solutions architect recommend?

A. Use AWS DataSync for the initial migration. Use AWS Database Migration Service (AWS DMS) to create a change data capture (CDC) replication task and a table mapping to select all cables.
B. Use AWS DataSync for the initial migration. Use AWS Database Migration Service (AWS DMS) to create a full load plus change data capture (CDC) replication task and a table mapping to select all tables.
C. Use the AWS Schema Conversion Tool with AWS Database Migration Service (AWS DMS) using a memory optimized replication instance. Create a full load plus change data capture (CDC) replication task and a table mapping to select all tables.
D. Use the AWS Schema Conversion Tool with AWS Database Migration Service (AWS DMS) using a compute optimized replication instance. Create a full load plus change data capture (CDC) replication task and a table mapping to select the largest tables.

Correct Answer:
C. Use the AWS Schema Conversion Tool with AWS Database Migration Service (AWS

DMS) using a memory optimized replication instance. Create a full load plus change data capture (CDC) replication task and a table mapping to select all tables.

Answer Description:

As you can see, we have three important memory buffers in this architecture for CDC in AWS DMS. If any of these buffers experience memory pressure, the migration can have performance issues that can potentially cause failures.

References:

- AWS Database Migration Service > User Guide > Choosing the right AWS DMS replication instance for your migration

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