- A. Configure the application to publish to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the database to the SNS topic.
- B. Configure the application to subscribe to an Amazon Simple Notification Service (Amazon SNS) topic. Publish the database updates to the SNS topic.
- C. Use Amazon Simple Queue Service (Amazon SOS) FIFO queues to queue the database connection until the database has resources to wrist the data.
- D. Use Amazon Simple Queue Service (Amazon SOS) FIFO queues tor capturing the writes and draining the queue as each write is made to the database.

Correct Answer: D

QUESTION 280

A company has a popular gaming platform running on AWS. The application is sensitive to latency because latency can impact the user experience and Introduce unfair advantages to some prayers. The application la deployed In a very AWS Region. It runs on Amazon FC2 Instances Vial are part of Auto Scaling groups configured behind Application Load Balancers (ALBs). A solutions architect needs to implement a mechanism to monitor the hearth of the application and redirect traffic to healthy endpoints. Which solution meets these requirements?

- A. Configure an accelerator In AWS Global Accelerator. Add a listens for the port that the application listens on and attach it to a Regional endpoint m each Region. Add the ALB as the endpoint.
- B. Create an Amazon CloudFron4t distribution and specify the ALB as the origin server. Configure the cache behaviour to use origin cache headers. Use AWS Lambda functions to optimize the traffic.
- C. Create an Amazon CloudFront distribution and specify Amazon S3 as the origin server. Configure tie cache behaviour to use origin cache headers. Use AWS Lambda functions to optimize the traffic.
- D. Configure an Amazon DynamoDB database to serve as the data store tor the application. Create a DynamoDB Accelerator (DAX) cluster to act as the m-memory cache for DynamoDB hosting the application data.

Correct Answer: A

QUESTION 281

A company provides an API to its users trial automates inquires for tax computations based on item prices. The company experiences a larger number of inquiries during the holiday season only that cause slower response times. A solutions architect needs to design a solution that is scalable and elastic. What should the solution architect do lo accompli this?

- A. Provide an API hosted on an Amazon EC2 Instance. The EC2 instance performs the required computations when the API request is made.
- B. Design a REST API using Amazon API Gateway mat accepts the item names API Gateway passes item names to AWS Lambda for tax computations.
- C. Create an Application Load Balancer mat has two Amazon EC2 instances behind it. The EC2 instances will compute the tax on the received Hem names.
- D. Design a REST API using Amazon API Gateway that connects with an API hosted on an Amazon EC2 instance. API Gateway accepts and passes the item names to the EC2 instance for tax computations.

Correct Answer: B

QUESTION 282

A company is using a fleet of Amazon EC2 instances to ingest data from on-premises data sources. The data is in JSON format and Ingestion rates can be as high as 1 MB/s. When an EC2 instance is rebooted, the data in-flight is lost. The company's data science team wants to query Ingested data In near-real time. Which solution provides near-real -time data querying that is scalable with minimal data loss?

- A. Publish data to Amazon Kinesis Data Streams Use Kinesis data Analytics to query the data.
- B. Publish data to Amazon Kinesis Data Firehose with Amazon Redshift as the destination Use Amazon Redshift to query the data.
- C. Store ingested data m an EC2 Instance store Publish data to Amazon Kinesis Data Firehose with Amazon S3 as the destination. Use Amazon Athena to query the data.
- D. Store ingested data m an Amazon Elastic Block Store (Amazon EBS) volume Publish data to Amazon ElastiCache tor Red Subscribe to the Redis channel to query the data.

Correct Answer: B

QUESTION 283

A company has NFS servers in an on-premises data center that need to periodically back up small amounts of data to Amazon S3. Which solution marts these requirement and is MOST cost-effective?

- A. Set up AWS Glue lo copy the data from the on-premises servers to Amazon S3.
- B. Set up an AWS DataSync agent on Vie on-premises servers, and sync the data lo Amazon S3.
- C. Set up an SFTP sync using AWS Transfer for SFTP lo sync data from on premises lo Amazon S3.
- D. Set up an AWS Direct Connect connection between the on-premises data center and a VPC, and copy the data to Amazon S3.

Correct Answer: B

QUESTION 284

A company wants to use an AWS Region as a disaster recovery location for its on-premises infrastructure. The company has 10 TB of existing data and the on-premises data center has a 1 Gbps internet connection. A solution architect must find a solution so the company can have its existing data on AWS in 72 hours without transmitting it using an unencrypted channel. Which solution should the solutions architect select?

- A. Send the initial 10 TB of data to AWS using FTP.
- B. Send the initial 10 TB of data lo AWS using AWS Snowball.
- C. Establish a VPN connection between Amazon VPC and the company's data center.
- D. Establish an AWS Direct Connect connection between Amazon VPC and the company's data canter.

Correct Answer: C

Explanation:

Q: How long does it take to transfer my data?

Data transfer speed is affected by a number of factors including local network speed, file size, and the speed at which data can be read from your local servers. The end-to-end time to transfer up to 80 TB of data into AWS with Snowball Edge is approximately one week, including the usual shipping and handling time in AWS data centers.

Q: How quickly can I access my exported data?

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We typically start exporting your data within 24 hours of receiving your request, and exporting data can take as long as a week. Once the job is complete and the device is ready, we ship it to you using the shipping options you selected when you created the job.

Source: https://aws.amazon.com/snowball/faqs/

QUESTION 285

A company has an application that generates a large number of files, each approximately 5 MB in size. The files are stored in Amazon S3. Company policy requires the files to be stored for 4 years before they can be deleted Immediate accessibility is always required as the files contain critical business data that is not easy to reproduce. The files are frequently accessed in the first 30 days of the object creation but are rarely accessed after the first 30 days. Which storage solution is MOST cost-effective?

- A. Create an S3 bucket lifecycle policy to move Mm from S3 Standard to S3 Glacier 30 days from object creation. Delete the Tiles 4 years after object creation.
- B. Create an S3 bucket lifecycle policy to move tiles from S3 Standard to S3 One Zone-infrequent Access (S3 One Zone-IA] 30 days from object creation. Delete the fees 4 years after object creation.
- C. Create an S3 bucket lifecycle policy to move files from S3 Standard-infrequent Access (S3 Standard -IA) 30 from object creation. Delete the ties 4 years after object creation.
- D. Create an S3 bucket Lifecycle policy to move files from S3 Standard to S3 Standard-Infrequent Access (S3 Standard-IA) 30 days from object creation. Move the files to S3 Glacier 4 years after object carton.

Correct Answer: C

QUESTION 286

An entertainment company is using Amazon DynamoDB to store media metadata. The application Is read intensive and experience delays. The company does not have staff to handle additional operational overhead and needs to Improve the performance efficiency of DynamoDB without reconfiguring the application. What should a solutions architect recommend to meet this requirement?

- A. Use Amazon ElastiCache for Redis.
- B. Use Amazon DynamoDB Accelerator (DAX).
- C. Replicate data by using DynamoDB global tables.
- D. Use Amazon ElasoCache for Merncached with Auto Discovery enabled.

Correct Answer: B

QUESTION 287

A solutions architect is designing a solution to access a catalog of images and provide users with the ability to submit requests to customize images Image customization parameters wilt be in every request that is sent to an Amazon API Gateway API. The solution will generate tie customized images on demand. Users will receive a link that they can use to view or download their customized images. The solution must be highly available for viewing and customizing images. What should the solutions architect do to meet these requirements MOST cost effectively?

A. Use Amazon EC2 instances to manipulate the original images into the requested customizations. Store the original and manipulated images in Amazon S3. Configure an Elastic Load Balancer in

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front. of the EC2 Instances.

- B. Use AWS Lambda to manipulate the original images into the requested customization. Store the original and manipulated images in Amazon S3. Configure an Amazon CloudFront distribution with the S3 bucket as the origin.
- C. Use AWS Lambda to manipulate the original images into the requested customizations. Store the original images in Amazon S3 Store the manipulated images in Amazon DynamoDB. Provision an Application Load Balancer and Amazon EC2 instances to serve the content.
- D. Use Amazon EC2 instances to manipulate the original Images Into the requested customizations. Store the original images in Amazon S3. Store the manipulated Images in Amazon DynamoDB. Configure an Amazon CloudFront distribution with the S3 bucket as the origin.

Correct Answer: B

QUESTION 288

At part of budget planning. management wants a report of AWS billed dams listed by user. The data will be used to create department budgets. A solution architect needs to determine the most efficient way to obtain this report Information. Which solution meets these requirement?

- A. Run a query with Amazon Athena to generate the report.
- B. Create a report in Cost Explorer and download the report.
- C. Access the bill details from me tuning dashboard and download Via bill.
- D. Modify a cost budget in AWS Budgets to alert with Amazon Simple Email Service (Amazon SES).

Correct Answer: B

QUESTION 289

A company uses an application to present metrics from sporting events to the public. The application must scale quickly during live events and must store these metrics for log-term reporting purposes. The company's architecture includes the following:

- Amazon EC2 instances that run in an Auto Scaling group in private subnets
- A network Load Balancer That runs in public subnets
- A MongoDB database cluster that runs across multiple EC2 instances

A solutions architect must implement a solution that minimizes operational overhead The solution alto must be able to Kale automatically. What should the solutions architect set up to meet these requirements?

- A. An Amazon DynamoDB database
- B. An Amazon ROS for MySQL D6 instance
- C. EC2 instances that run MySQL
- D. Amazon Redshift

Correct Answer: A

QUESTION 290

A solutions architect It designing a VPC with public and private subnets. The VPC and subnets use IPv4 CIDR blocks. There is one public subnet and one private subnet in each of three Availability Zones (AZs) for high availability. An internet gateways used to provide internet access

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for the public subnets. The private subnets require access to the internet to allow Amazon BC2 Instances to download software updates. What should the solutions architect do to enable internet access for the private subnets?

- A. Create three NAT gateways, one for each public subnet in each AZ. Create a private route table for each AZ that forwards non-VPC traffic to tie NAT gateway m its AZ.
- B. Create three NAT instances, one for each private subnet in each AZ. Create a private route table for each AZ that forwards non-VPC traffic to the NAT instance in its AZ.
- C. Create a second internet gateway on one of the private subnets. Update the route table for the private subnets that forward non-VPC trade to the private Internet gateway.
- D. Create an egress-only internet gateway on one of the pubic subnets. Update the route table for the private subnets that forward non-VPC traffic to the egress-only internet gateway.

Correct Answer: A

QUESTION 291

A company recently migrated a message processing system to AWS. The system receives messages into an ActiveMQ queue running on an Amazon EC2 instance. Messages are processed by a consumer application running on Amazon EC2. The consumer application processes the messages and writes results to a MySQL database funning on Amazon EC2. The company wants this application to be highly available with tow operational complexity. Which architecture otters the HGHEST availability?

- A. Add a second ActiveMQ server to another Availably Zone. Add an additional consumer EC2 instance in another Availability Zone. Replicate the MySQL database to another Availability Zone.
- B. Use Amazon MO with active/standby brokers configured across two Availability Zones. Add an additional consumer EC2 instance in another Availability Zone. Replicate the MySQL database to another Availability Zone.
- C. Use Amazon MO with active/standby blotters configured across two Availability Zones. Add an additional consumer EC2 instance in another Availability Zone. Use Amazon ROS tor MySQL with Multi-AZ enabled.
- D. Use Amazon MQ with active/standby brokers configured across two Availability Zones. Add an Auto Scaling group for the consumer EC2 instances across two Availability Zones. Use Amazon RDS (or MySQL with Multi-AZ enabled.

Correct Answer: D

QUESTION 292

A meteorological startup company has a custom web application to sell weather data to its users online. The company uses Amazon DynamoDB to store is data and wants to build a new service that sends an alert to the managers of four Internal teams every time a new weather event is recorded. The company does not want true new service to affect the performance of the current application. What should a solutions architect do to meet these requirement with the LEAST amount of operational overhead?

- A. Use DynamoDB transactions to write new event data to the table. Configure the transactions to notify internal teams.
- B. Have the current application publish a message to four Amazon Simple Notification Service (Amazon SNS) topics. Have each team subscribe to one topic.
- C. Enable Amazon DynamoDB Streams on the table. Use triggers to write to a mingle Amazon Simple Notification Service (Amazon SNS) topic to which the teams can subscribe.

D. Add a custom attribute to each record to flag new items. Write a cron job that scans the table every minute for items that are new and notifies an Amazon Simple Queue Service (Amazon

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