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- A. Set up S3 bucket policies to allow access from a VPC endpoint
- B. Set up an IAM policy to grant read-write access to the S3 bucket
- C. Set up a NAT gateway to access resources outside the private subnet
- D. Set up an access key ID and a secret access key to access the S3 bucket

Correct Answer: A

QUESTION 72

A company allows its developers to attach existing IAM policies to existing IAM roles to enable faster experimentation and agility. However, the security operations team is concerned that the developers could attach the existing administrator policy, which would allow the developers to circumvent any other security policies. How should a solution architect address this issue?

- A. Create an Amazon SNS topic to send an alert every time a developer create a new policy.
- B. Use service control policies to disable IAM across all account in the organizational unit.
- C. Prevent the developers from attaching any policies and duties to the security option team.
- D. Set an IAM permission boundary on the developer IAM role that explicitly denies of attaching the administrator policy.

Correct Answer: D

QUESTION 73

A company's database is hosted on an Amazon Aurora MySQL DB cluster in the us-east-1 Region. The database is 4 TB in size. The company needs to expand its disaster recovery strategy to the us-west-2 Region. The company must have the ability to fail over to us-west-2 with a recovery time objective (RTO) of 15 minutes. What should a solutions architect recommend to meet these requirements?

- A. Create a Multi-Region Aurora MySQL DB cluster in us-east-1 and us-west-2. Use an Amazon Route 53 health check to monitor us-east-1 and fail over to us-west-2 upon failure.
- B. Take a snapshot of the DB cluster in us-east-1. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon receipt of resource events. Configure the Lambda function to copy the snapshot to us-west-2 and restore the snapshot in us-west-2 when failure is detected.
- C. Create an AWS CloudFormation script to create another Aurora MySQL DB cluster in us-west-2 in case of failure. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon receipt of resource events. Configure the Lambda function to deploy the AWS CloudFormation stack in us-west-2 when failure is detected.
- D. Recreate the database as an Aurora global database with the primary DB cluster in us-east-1 and a secondary DB cluster in us-west-2. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon receipt of resource events. Configure the Lambda function to promote the DB cluster in us-west-2 when failure is detected.

Correct Answer: B

QUESTION 74

A company is deploying a two-tier web application in a VPC. The web tier is using an Amazon EC2 Auto Scaling group with public subnets that span multiple Availability Zones. The database

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tier consists of an Amazon RDS for MySQL DB instance in separate private subnets. The web tier requires access to the database to retrieve product information. The web application is not working as intended. The web application reports that it cannot connect to the database. The database is confirmed to be up and running. All configurations for the network ACLs, security groups, and route tables are still in their default states. What should a solutions architect recommend to fix the application?

- A. Add an explicit rule to the private subnet's network ACL to allow traffic from the web tier's EC2 instances.
- B. Add a route in the VPC route table to allow traffic between the web tier's EC2 instances and the database tier.
- C. Deploy the web tier's EC2 instances and the database tier's RDS instance into two separate VPCs and configure VPC peering.
- D. Add an inbound rule to the security group of the database tier's RDS instance to allow traffic from the web tier's security group.

Correct Answer: D

QUESTION 75

A company is building a mobile app on AWS. The company wants to expand its reach to millions of users. The company needs to build a platform so that authorized users can watch the company's content on their mobile devices. What should a solutions architect recommend to meet these requirements?

- A. Publish content to a public Amazon S3 bucket. Use AWS Key Management Service (AWS KMS) keys to stream content.
- B. Set up IPsec VPN between the mobile app and the AWS environment to stream content.
- C. Use Amazon CloudFront Provide signed URLs to stream content.
- D. Set up AWS Client VPN between the mobile app and the AWS environment to stream content.

Correct Answer: A

QUESTION 76

A solutions architect needs to design a resilient solution for Windows users' home directories. The solution must provide fault tolerance, file-level backup and recovery, and access control, based upon the company's Active Directory. Which storage solution meets these requirements?

- A. Configure Amazon S3 to store the users' home directories. Join Amazon S3 to Active Directory.
- B. Configure a Multi-AZ file system with Amazon FSx for Windows File Server. Join Amazon FSx to Active Directory.
- C. Configure Amazon Elastic File System (Amazon EFS) for the users home directories. Configure AWS Single Sign-On with Active Directory.
- D. Configure Amazon Elastic Block Store (Amazon EBS) to store the users home directories. Configure AWS Single Sign-On with Active Directory.

Correct Answer: B

QUESTION 77

A company is concerned about the security of its public web application due to recent web attacks. The application uses an Application Load Balancer (ALB). A solutions architect must reduce the risk of DDoS attacks against the application. What should the solutions architect do to meet this requirement?

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- A. Add an Amazon Inspector agent to the ALB.
- B. Configure Amazon Macie to prevent attacks.
- C. Enable AWS Shield Advanced to prevent attacks.
- D. Configure Amazon GuardDuty to monitor the ALB.

Correct Answer: C

QUESTION 78

A solutions architect is designing the cloud architecture for a new application that is being deployed on AWS. The application's users will interactively download and upload files. Files that are more than 90 days old will be accessed less frequently than newer files, but all files need to be instantly available. The solutions architect must ensure that the application can scale to store petabytes of data with maximum durability. Which solution meets these requirements?

- A. Store the files in Amazon S3 Standard. Create an S3 Lifecycle policy that moves objects that are more than 90 days old to S3 Glacier.
- B. Store the files in Amazon S3 Standard. Create an S3 Lifecycle policy that moves objects that are more than 90 days old to S3 Standard-Infrequent Access (S3 Standard-IA).
- C. Store the files in Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data that is more than 90 days old.
- D. Store the files in RAID-striped Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data that is more than 90 days old.

Correct Answer: B

QUESTION 79

What should a solutions architect do to ensure that all objects uploaded to an Amazon S3 bucket are encrypted?

- A. Update the bucket policy to deny if the PutObject does not have an s3 x-amz-acl header set.
- B. Update the bucket policy to deny if the PutObject does not have an s3:x-amz-acl header set to private.
- C. Update the bucket policy to deny if the PutObject does not have an aws SecureTransport header set to true.
- D. Update the bucket policy to deny if the PutObject does not have an x-amz-server-side-encryption header set.

Correct Answer: D

QUESTION 80

A medical research lab produces data that is related to a new study. The lab wants to make the data available with minimum latency to clinics across the country for their on-premises file-based applications. The data files are stored in an Amazon S3 bucket that has read-only permissions for each clinic. What should a solutions architect recommend to meet these requirements?

- A. Deploy an AWS Storage Gateway file gateway as a virtual machine (VM) on premises at each clinic.
- B. Migrate the files to each clinic's on-premises applications by using AWS DataSync for processing.
- C. Deploy an AWS Storage Gateway volume gateway as a virtual machine (VM) on premises at each clinic.
- D. Attach an Amazon Elastic File System (Amazon EFS) file system to each clinic's on-premises servers.

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Correct Answer: A

QUESTION 81

An application runs on Amazon EC2 instances across multiple Availability Zones. The instances run in an Amazon EC2 Auto Scaling group behind an Application Load Balancer. The application performs best when the CPU utilization of the EC2 instances is at or near 40%. What should a solutions architect do to maintain the desired performance across all instances in the group?

- A. Use a simple scaling policy to dynamically scale the Auto Scaling group.
- B. Use a target tracking policy to dynamically scale the Auto Scaling group.
- C. Use an AWS Lambda function to update the desired Auto Scaling group capacity.
- D. Use scheduled scaling actions to scale up and scale down the Auto Scaling group.

Correct Answer: B

QUESTION 82

A solutions architect needs to design a network that will allow multiple Amazon EC2 instances to access a common data source used for mission-critical data that can be accessed by all the EC2 instances simultaneously. The solution must be highly scalable, easy to implement, and support the NFS protocol. Which solution meets these requirements?

- A. Create an Amazon EFS file system. Configure a mount target in each Availability Zone. Attach each instance to the appropriate mount target.
- B. Create an additional EC2 instance and configure it as a file server. Create a security group that allows communication between the instances and apply that to the additional instance.
- C. Create an Amazon S3 bucket with the appropriate permissions. Create a role in AWS IAM that grants the correct permissions to the S3 bucket. Attach the role to the EC2 instances that need access to the data.
- D. Create an Amazon EBS volume with the appropriate permissions. Create a role in AWS IAM that grants the correct permissions to the EBS volume. Attach the role to the EC2 instances that need access to the data.

Correct Answer: A

QUESTION 83

A company needs to store 160TB of data for an indefinite of time. The company must be able to use standard SQL and business intelligence tools to query all of the data. The data will be queried no more than twice each month. What is the MOST cost-effective solution that meets these requirements?

- A. Store the data in Amazon Aurora Serverless with MySQL. Use an SQL client to query the data.
- B. Store the data in Amazon S3. Use AWS Glue, Amazon Athena, JDBC and ODBC drivers to query the data.
- C. Store the data in an Amazon EMR cluster with EMR File System (EMRFS) as the storage layer use Apache Presto to query the data.
- D. Store a subset of the data in Amazon Redshift, and store the remaining data in Amazon S3. Use Amazon Redshift Spectrum to query the S3 data.

Correct Answer: D

QUESTION 84

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A solutions architect must transfer 750 TB of data from an on-premises network-attached file system to Amazon S3 Glacier. The migration must not saturate the on-premises 10 Mbps internet connection. Which solution will meet these requirements?

- A. Create an AWS Site-to-Site VPN tunnel to an S3 bucket. Transfer the files directly by using the AWS CLI.
- B. Order 10 AWS Snowball Edge Storage Optimized devices, and select an S3 Glacier vault as the destination.
- C. Mount the network-attached file system to an S3 bucket, and copy the files directly. Create an S3 Lifecycle policy to transition the S3 objects to S3 Glacier.
- D. Order 10 AWS Snowball Edge Storage Optimized devices, and select an S3 bucket as the destination. Create an S3 Lifecycle policy to transition the S3 objects to S3 Glacier.

Correct Answer: D

QUESTION 85

A company hosts an application on AWS. The application interacts with an Amazon DynamoDB table that has 10 read capacity units (RCUs). Data from Amazon CloudWatch alarms shows that throttling is occurring on read requests to the DynamoDB table. The company needs to prevent this issue from happening in the future as the application continues to grow. What should a solutions architect recommend to meet these requirements?

- A. Add an Elastic Load Balancer in front of the DynamoDB table.
- B. Change the RCUs for the DynamoDB table to 20.
- C. Provision 20 write capacity units (WCUs) for the DynamoDB table to offset the throttling on read requests.
- D. Enable auto scaling for the DynamoDB table.

Correct Answer: D

QUESTION 86

A company has a service that produces event data. The company wants to use AWS to process the event data as it is received. The data is written in a specific order that must be maintained throughout processing. The company wants to implement a solution that minimizes operational overhead. How should a solutions architect accomplish this?

- A. Create an Amazon Simple Queue Service (Amazon SQS) FIFO queue to hold messages. Set up an AWS Lambda function to process messages from the queue.
- B. Create an Amazon Simple Notification Service (Amazon SNS) topic to deliver notifications containing payloads to process. Configure an AWS Lambda function as a subscriber.
- C. Create an Amazon Simple Queue Service (Amazon SQS) standard queue to hold messages. Set up an AWS Lambda function to process messages from the queue independently.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic to deliver notifications containing payloads to process. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a subscriber.

Correct Answer: A

QUESTION 87

A company hosts historical weather records in Amazon S3. The records are downloaded from the company's website by way of a URL that resolves to a domain name. Users all over the world access this content through subscriptions. A third-party provider hosts the company's root domain name, but the company recently migrated some of its services to Amazon Route 53. The

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