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Correct Answer: D

QUESTION 449

A company has a data ingestion workflow that includes the following components:

- An Amazon Simple Notification Service (Amazon SNS) topic that receives notifications about new data deliveries
- An AWS Lambda function that processes and stores the data

The ingestion workflow occasionally fails because of network connectivity issues. When a failure occurs the corresponding data is not ingested unless the company manually reruns the job. What should a solutions architect do to ensure that all notifications are eventually processed?

- A. Configure the Lambda function for deployment across multiple Availability Zones.
- B. Modify the Lambda function's configuration to increase the CPU and memory allocations for the function.
- C. Configure the SNS topic's retry strategy to increase both the number of retries and the wait time between retries.
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue as the on failure destination. Modify the Lambda function to process messages in the queue.

Correct Answer: A

QUESTION 450

A company used an Amazon RDS for MySQL DB instance during application testing. Before terminating the DB instance at the end of the test cycle a solutions architect created two backups. The solutions architect created the first backup by using the mysqldump utility to create a database dump. The solutions architect created the second backup by enabling the final DB snapshot option on RDS termination. The company is now planning for a new test cycle and wants to create a new DB instance from the most recent backup. The company has chosen a MySQL-compatible edition of Amazon Aurora to host the DB instance. Which solutions will create the new DB instance? (Select TWO)

- A. Import the RDS snapshot directly into Aurora.
- B. Upload the RDS snapshot to Amazon S3. Then import the RDS snapshot into Aurora.
- C. Upload the database dump to Amazon S3. Then import the database dump into Aurora.
- D. Use AWS Database Migration Service (AWS DMS) to import the RDS snapshot into Aurora.
- E. Upload the database dump to Amazon S3. Then use AWS Database Migration Service (AWS DMS) to import the database dump into Aurora.

Correct Answer: AC

QUESTION 451

A company is preparing to deploy a data lake on AWS. A solutions architect must define the encryption strategy for data at rest in Amazon S3. The company's security policy states:

- Keys must be rotated every 90 days
- Strict separation of duties between key users and key administrators must be implemented
- Auditing key usage must be possible

What should the solutions architect recommend?

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- A. Server-side encryption with AWS KMS managed keys (SSE-KMS) with customer managed customer master keys (CMKs)
- B. Server-side encryption with AWS KMS managed keys (SSE-KMS) with AWS managed customer master keys (CMKs)
- C. Server-side encryption with Amazon S3 managed keys (SSE-S3) with customer managed customer master keys (CMKs)
- D. Server-side encryption with Amazon S3 managed keys (SSE-S3) with AWS managed customer master keys (CMKs)

Correct Answer: B

QUESTION 452

A company recently migrated a legacy application from an on-premises data center to AWS. The application is running on an Amazon EC2 instance. The EC2 instance is deployed in a private subnet in a VPC without inbound internet access. The application support team requires SSH access to the operating system to perform periodic maintenance. Which solution provides secure access with the LEAST operational effort?

- A. Configure AWS Client VPN to access the VPC. Update the EC2 instance security group inbound rules to allow access from Client VPN.
- B. Configure AWS Site-to-Site VPN to access the VPC. Update the EC2 instance security group inbound rules to allow access from Site-to-Site VPN.
- C. Attach the AmazonSSMManagedInstanceCore IAM policy to the EC2 instance role. Use AWS Systems Manager Session Manager to enable SSH connection.
- D. Deploy a bastion host in a public subnet. Allow SSH access to the bastion host from the internet. Update the EC2 instance security group inbound rules to allow access from the bastion host.

Correct Answer: D

QUESTION 453

A solutions architect needs to connect a company's corporate network to its VPC to allow on-premises access to its AWS resources. The solution must provide encryption of all traffic between the corporate network and the VPC at the network layer and the session layer. The solution also must provide security controls to prevent unrestricted access between AWS and the on-premises systems. Which solution meets these requirements?

- A. Configure AWS Direct Connect to connect to the VPC. Configure the VPC route tables to allow and deny traffic between AWS and on premises as required.
- B. Create an IAM policy to allow access to the AWS Management Console only from a defined set of corporate IP addresses. Restrict user access based on job responsibility by using an IAM policy and roles.
- C. Configure AWS Site-to-Site VPN to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.
- D. Configure AWS Transit Gateway to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.

Correct Answer: D

QUESTION 454

A company is migrating a Linux-based web server group to AWS. The web servers must access

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files in a shared file store for some content. The company must not make any changes to the application. What should a solutions architect do to meet these requirements?

- A. Create an Amazon S3 Standard bucket with access to the web servers.
- B. Configure an Amazon CloudFront distribution with an Amazon S3 bucket as the origin.
- C. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system on all web servers.
- D. Configure a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume. Mount the EBS volume to all web servers.

Correct Answer: C

QUESTION 455

A company recently deployed a new auditing system to centralize information about operating system versions patching and installed software for Amazon EC2 instances. A solutions architect must ensure all instances provisioned through EC2 Auto Scaling groups successfully send reports to the auditing system as soon as they are launched and terminated. Which solution achieves these goals MOST efficiently?

- A. Use a scheduled AWS Lambda function and run a script remotely on all EC2 instances to send data to the audit system.
- B. Use EC2 Auto Scaling lifecycle hooks to run a custom script to send data to the audit system when instances are launched and terminated.
- C. Use an EC2 Auto Scaling launch configuration to run a custom script through user data to send data to the audit system when instances are launched and terminated.
- D. Run a custom script on the instance operating system to send data to the audit system. Configure the script to be invoked by the EC2 Auto Scaling group when the instance starts and is terminated.

Correct Answer: B

QUESTION 456

A company recently migrated multiple applications and databases from an on-premises data center to the AWS Cloud. Most of the applications run on AWS Fargate, and some of the applications run on Amazon EC2 instances. Most of the databases run on Amazon RDS, and a small number of databases run on EC2 Instances. All the applications and databases must be available 24 hours a day, 7 days a week. The company uses AWS Organizations to manage AWS accounts. A solutions architect must recommend how to minimize the cost of these workloads over the next 3 years. Which solution meets these requirements?

- A. Purchase All Upfront Reserved Instances with a 3-year term for Amazon EC2 and Fargate.
- B. Purchase All Upfront Reserved Instances with a 3-year term for Amazon EC2 and Amazon RDS.
- C. Purchase All Upfront Compute Savings Plans with a 3-year term for Amazon EC2 and Fargate
Purchase All Upfront Reserved Instances with a 3-year term for Amazon RDS.
- D. Purchase All Upfront EC2 Instance Savings Plans with a 3-year term for Amazon EC2 and Fargate
Purchase All Upfront Reserved Instances with a 3-year term for Amazon RDS.

Correct Answer: D

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QUESTION 457

A company runs multiple Amazon EC2 Linux instances in a VPC across two Availability Zones. The instances host applications that use a hierarchical directory structure. The applications need to read and write rapidly and concurrently to shared storage. What should a solutions architect do to meet these requirements?

- A. Create an Amazon S3 bucket. Allow access from all the EC2 instances in the VPC.
- B. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system from each EC2 instance.
- C. Create a file system on a Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volume. Attach the EBS volume to all the EC2 instances.
- D. Create file systems on Amazon Elastic Block Store (Amazon EBS) volumes that are attached to each EC2 instance. Synchronize the EBS volumes across the different EC2 instances.

Correct Answer: B

QUESTION 458

A company wants its public web application to run on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB). The application must use a publicly trusted SSL certificate. Which solution will meet these requirements MOST cost-effectively?

- A. Provision a public SSL/TLS certificate through AWS Certificate Manager (ACM). Configure the new certificate on the HTTPS listener for the ALB.
- B. Use AWS Certificate Manager Private Certificate Authority to issue an SSL/TLS certificate. Configure the new certificate on the HTTPS listener for the ALB.
- C. Create a self-signed certificate on one of the EC2 instances in the Auto Scaling group. Export the certificate, and configure it on the HTTPS listener for the ALB.
- D. Deploy an EC2-hosted certificate authority (CA). Import a trusted root certificate. Issue a new SSL/TLS certificate. Configure the new certificate on the HTTPS listener for the ALB.

Correct Answer: A

QUESTION 459

A medical company is designing a new application that gathers symptoms from patients. The company has decided to use Amazon Simple Queue Service (Amazon SQS) and Amazon Simple Notification Service (Amazon SNS) in the architecture. A solutions architect is reviewing the infrastructure design. Data must be encrypted while at rest and in transit. Only authorized personnel of the company can access the data. Which combination of steps should the solutions architect take to meet these requirements? (Select TWO)

- A. Turn on server-side encryption on the SQS components. Update the default key policy to restrict key usage to a set of authorized principals.
- B. Turn on server-side encryption on the SNS components by using a custom CMK. Apply a key policy to restrict key usage to a set of authorized principals.
- C. Turn on encryption on the SNS components. Update the default key policy to restrict key usage to a set of authorized principals. Set a condition in the topic policy to allow only encrypted connections over TLS.
- D. Turn on server-side encryption on the SQS components by using a custom CMK. Apply a key policy to restrict key usage to a set of authorized principals. Set a condition in the queue policy to allow only encrypted connections over TLS.
- E. Turn on server-side encryption on the SQS components by using a custom CMK. Apply an IAM

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policy to restrict key usage to a set of authorized principals. Set a condition in the queue policy to allow only encrypted connections over TLS.

Correct Answer: CD

QUESTION 460

A solutions architect is creating an application. The application will run on Amazon EC2 instances in private subnets across multiple Availability Zones in a VPC. The EC2 instances will frequently access large files that contain confidential information. These files are stored in Amazon S3 buckets for processing. The solutions architect must optimize the network architecture to minimize data transfer costs. What should the solutions architect do to meet these requirements?

- A. Create a gateway endpoint for Amazon S3 in the VPC. In the route tables for the private subnets, add an entry for the gateway endpoint.
- B. Create a single NAT gateway in a public subnet. In the route tables for the private subnets, add a default route that points to the NAT gateway.
- C. Create an AWS PrivateLink interface endpoint for Amazon S3 in the VPC. In the route tables for the private subnets, add an entry for the interface endpoint.
- D. Create one NAT gateway for each Availability Zone in public subnets. In each of the route tables for the private subnets, add a default route that points to the NAT gateway in the same Availability Zone.

Correct Answer: D

QUESTION 461

A company wants to migrate an on-premises data center to AWS. The data center hosts an SFTP server that stores its data on an NFS-based file system. The server holds 200 GB of data that needs to be transferred. The server must be hosted on an Amazon EC2 instance that uses an Amazon Elastic File System (Amazon EFS) file system. When combination of steps should a solutions architect take to automate this task? (Select TWO)

- A. Launch the EC2 instance into the same Availability Zone as the EFS file system.
- B. Install an AWS DataSync agent on the on-premises data center.
- C. Create a secondary Amazon Elastic Block Store (Amazon EBS) volume on the EC2 instance for the data.
- D. Manually use an operating system copy command to push the data to the EC2 instance.
- E. Use AWS DataSync to create a suitable location configuration for the on-premises SFTP server.

Correct Answer: CD

QUESTION 462

A solutions architect finds that an Amazon Aurora cluster with On-Demand Instance pricing is being underutilized for a blog application. The application is used only for a few minutes several times each day for reads. What should a solutions architect do to optimize utilization MOST cost-effectively?

- A. Enable Auto Scaling on the original Aurora database
- B. Convert the original Aurora database to Aurora parallel query
- C. Convert the original Aurora database to an Aurora global database
- D. Convert the original Aurora database to Amazon Aurora Serverless

Correct Answer: A

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