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QUESTION 348

A solutions architect is investigating AWS file storage solutions that can be used with a company's on-premises Linux servers and applications. The company has an existing VPN connection set up between the company's VPC and its on-premises network. Which AWS services should the solutions architect use? (Select TWO)

- A. AWS Backup
- B. AWS OataSync
- C. AWS Snowball Edge
- D. AWS Storage Gateway
- E. Amazon Elastic File System (Amazon EFS)

Correct Answer: DE

QUESTION 349

A company's application is running on Amazon EC2 instances in a single Region. In the event of a disaster, a solutions architect needs to ensure that the resources can also be deployed to a second Region. Which combination of actions should the solutions architect take to accomplish this? (Select TWO)

- A. Detach a volume on an EC2 instance and copy it to Amazon S3.
- B. Launch a new EC2 instance from an Amazon Machine Image (AMI) in a new Region.
- C. Launch a new EC2 instance in a new Region and copy a volume from Amazon S3 to the new instance.
- D. Copy an Amazon Machine Image (AMI) of an EC2 instance and specify a different Region for the destination.
- E. Copy an Amazon Elastic Block Store (Amazon EBS) volume from Amazon S3 and launch an EC2 instance in the destination Region using that EBS volume.

Correct Answer: BD

QUESTION 350

An application that is hosted on Amazon EC2 instances needs to access an Amazon S3 bucket. Traffic must not traverse the internet. How should a solutions architect configure access to meet these requirements?

- A. Create a private hosted zone by using Amazon Route 53
- B. Set up a gateway VPC endpoint for Amazon S3 in the VPC
- C. Configure the EC2 instances to use a NAT gateway to access the S3 bucket
- D. Establish an AWS Site-to-Site VPN connection between the VPC and the S3 bucket

Correct Answer: B

QUESTION 351

A company runs an application on an Amazon EC2 instance. The application frequently writes and reads tens of thousands of intermediate computation results to disk. To finish within the allowed duration, the application must be able to complete all intermediate computations with sustained low latency. Which Amazon Elastic Block Store (Amazon EBS) volume type should a solutions architect attach to the EC2 instance to meet these requirements?

- A. Cold HDD (sc1)
- B. General Purpose SSD (gp3)

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- C. Provisioned IOPS SSD (io2)
- D. Throughput Optimized HDD (st1)

Correct Answer: C

QUESTION 352

A company is migrating its application to an Amazon Elastic Kubernetes Service (Amazon EKS) cluster behind an Application Load Balancer (ALB). The disaster recovery (DR) requirements for the application include the ability to fail over to another AWS Region with minimal downtime. Which combination of actions should a solutions architect take to meet this requirement? (Select TWO.)

- A. Create a scaled-down clone environment in the DR Region. Use auto scaling policies with the EKS nodes.
- B. Create an Amazon Route 53 record that points to the ALB. Configure an active-passive failover routing policy on the record.
- C. Create an AWS Resource Access Manager policy that grants the application users access to the DR environment when the DR environment is needed.
- D. Create an AWS Lambda function that monitors the availability of the main environment and deploys the DR environment when the DR environment is needed.
- E. Create an AWS CloudFormation template that deploys the stack. Deploy the same template in the DR Region when the main environment is unavailable.

Correct Answer: BE

QUESTION 353

A company is using Amazon CloudFront with its website. The company has enabled logging on the CloudFront distribution, and logs are saved in one of the company's Amazon S3 buckets. The company needs to perform advanced analyses on the logs and build visualizations. What should a solutions architect do to meet these requirements?

- A. Use standard SQL queries in Amazon Athena to analyze the CloudFront logs in the S3 bucket Visualize the results with AWS Glue
- B. Use standard SQL queries in Amazon Athena to analyze the CloudFront logs in the S3 bucket Visualize the results with Amazon QuickSight
- C. Use standard SQL queries in Amazon DynamoDB to analyze the CloudFront logs in the S3 bucket Visualize the results with AWS Glue
- D. Use standard SQL queries in Amazon DynamoDB to analyze the CloudFront logs in the S3 bucket Visualize the results with Amazon QuickSight

Correct Answer: D

QUESTION 354

A data science team requires storage for nightly log processing. The size and number of logs is unknown and will persist for 24 hours only. What is the MOST cost-effective solution?

- A. Amazon S3 Glacier
- B. Amazon S3 Standard
- C. Amazon S3 Intelligent-Tiering
- D. Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: B

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QUESTION 355

A company is running a critical business application on an Amazon EC2 instance. The EC2 instance is hosting an Apache web server and a MySQL database server. The application serves static content and dynamic content to end users. The application is experiencing severe availability issues because of heavy user demand. The company needs a solution that resolves the availability issues with the least operational effort and the least change to the application. What should a solutions architect do to meet these requirements?

- A. Deploy the application and the web server on AWS Fargate. Use a Network Load Balancer to route traffic. Migrate the database to Amazon DynamoDB.
- B. Create an Amazon Machine Image (AMI) from the current EC2 instance. Create an Auto Scaling group to provide more capacity as needed. Use a Network Load Balancer to route traffic.
- C. Host static content on Amazon S3. Deploy the application and the web server on AWS Fargate. Use an Application Load Balancer to route traffic. Migrate the database to Amazon Aurora Serverless.
- D. Host static content on Amazon S3. Deploy the application on EC2 instances that are configured in an Auto Scaling group. Use an Application Load Balancer to route traffic. Migrate the database to Amazon DynamoDB.

Correct Answer: C

QUESTION 356

A company needs to run its external website on Amazon EC2 instances and on-premises virtualized servers. The AWS environment has a 1 GB AWS Direct Connect connection to the data center. The application has IP addresses that will not change. The on-premises and AWS servers are able to restart themselves while maintaining the same IP address if a failure occurs. Some website users have to add their vendors to an allow list, so the solution must have a fixed IP address. The company needs a solution with the lowest operational overhead to handle this split traffic. What should a solutions architect do to meet these requirements?

- A. Deploy an Amazon Route 53 Resolver with rules pointing to the on-premises and AWS IP addresses.
- B. Deploy a Network Load Balancer on AWS. Create target groups for the on-premises and AWS IP addresses.
- C. Deploy an Application Load Balancer on AWS. Register the on-premises and AWS IP addresses with the target group.
- D. Deploy Amazon API Gateway to direct traffic to the on-premises and AWS IP addresses based on the header of the request.

Correct Answer: B

QUESTION 357

A company is running a web-based game in two Availability Zones in the us-west-2 Region. The web servers use an Application Load Balancer (ALB) in public subnets. The ALB has an SSL certificate from AWS Certificate Manager (ACM) with a custom domain name. The game is written in JavaScript and runs entirely in a user's web browser. The game is increasing in popularity in many countries around the world. The company wants to update the application architecture and optimize costs without compromising performance. What should a solutions architect do to meet these requirements?

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- A. Use Amazon CloudFront and create a global distribution that points to the ALB. Reuse the existing certificate from ACM for the CloudFront distribution. Use Amazon Route 53 to update the application alias to point to the distribution.
- B. Use AWS CloudFormation to deploy the application stack to AWS Regions near countries where the game is popular. Use ACM to create a new certificate for each application instance. Use Amazon Route 53 with a geolocation routing policy to direct traffic to the local application instance.
- C. Use Amazon S3 and create an S3 bucket in AWS Regions near countries where the game is popular. Deploy the HTML and JavaScript files to each S3 bucket. Use ACM to create a new certificate for each S3 bucket. Use Amazon Route 53 with a geolocation routing policy to direct traffic to the local S3 bucket.
- D. Use Amazon S3 and create an S3 bucket in us-west-2. Deploy the HTML and JavaScript files to the S3 bucket. Use Amazon CloudFront and create a global distribution with the S3 bucket as the origin. Use ACM to create a new certificate for the distribution. Use Amazon Route 53 to update the application alias to point to the distribution.

Correct Answer: A

QUESTION 358

A company is planning to migrate its virtual server-based workloads to AWS. The company has internet-facing load balancers backed by application servers. The application servers rely on patches from an internet-hosted repository. Which services should a solutions architect recommend be hosted on the public subnet? (Select TWO.)

- A. NAT gateway
- B. Amazon RDS DB instances
- C. Application Load Balancers
- D. Amazon EC2 application servers
- E. Amazon Elastic File System (Amazon EFS) volumes

Correct Answer: AD

QUESTION 359

A company runs an application on several Amazon EC2 instances that store persistent data on an Amazon Elastic File System (Amazon EFS) file system. The company needs to replicate the data to another AWS Region by using an AWS managed service solution. Which solution will meet these requirements MOST cost-effectively?

- A. Use the EFS-to-EFS backup solution to replicate the data to an EFS file system in another Region.
- B. Run a nightly script to copy data from the EFS file system to an Amazon S3 bucket. Enable S3 Cross-Region Replication on the S3 bucket.
- C. Create a VPC in another Region. Establish a cross-Region VPC peer. Run a nightly rsync to copy data from the original Region to the new Region.
- D. Use AWS Backup to create a backup plan with a rule that takes a daily backup and replicates it to another Region. Assign the EFS file system resource to the backup plan.

Correct Answer: D

QUESTION 360

An ecommerce company uses an Amazon Aurora DB cluster to store customer transactions. The company also maintains a separate Amazon DynamoDB table that contains item sales

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information. The company wants the DB cluster to invoke a recently deployed AWS Lambda function to update the DynamoDB table every time a row is inserted into the database. Which combination of steps should a solutions architect take to meet these requirements? (Select TWO.)

- A. Modify the Lambda function to allow outbound communication to the DB cluster
- B. Modify the DB cluster to allow outbound communication to the Lambda function.
- C. Modify the DB cluster to allow outbound communication to the DynamoDB table
- D. Ensure that the DB cluster has an IAM role that allows the DB cluster to invoke Lambda functions.
- E. Ensure that the Lambda function has an IAM role that allows Lambda to invoke functions on the DB cluster.

Correct Answer: CE

QUESTION 361

A company is planning to deploy a business-critical application in the AWS Cloud. The application requires durable storage with consistent, low-latency performance. Which type of storage should a solutions architect recommend to meet these requirements?

- A. Instance store volume
- B. Amazon ElastiCache for Memcached cluster
- C. Provisioned IOPS SSD Amazon Elastic Block Store (Amazon EBS) volume
- D. Throughput Optimized HDD Amazon Elastic Block Store (Amazon EBS) volume

Correct Answer: C

QUESTION 362

A doctor's office is moving all of its patient data to the AWS Cloud. The office needs to retain all the data indefinitely, but the data is rarely accessed after a year. The data must be immediately available during the first year. However, to minimize cost, the office is willing to wait a day for data that is more than 1 year old to become available. Which combination of actions should a solutions architect take to meet these requirements MOST cost-effectively? (Select TWO)

- A. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier after a year.
- B. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier Deep Archive after a year.
- C. Create an Amazon S3 bucket for the data. Store data in the S3 bucket by using the S3 Glacier storage class.
- D. Create an Amazon S3 bucket for the data. Store data in the bucket by using the S3 Standard storage class.
- E. Create an Amazon S3 bucket for the data. Store data in the bucket by using the S3 Intelligent-Tiering storage class.

Correct Answer: AD

QUESTION 363

A company is building a new data analysis application that will ingest large volumes of data into an Amazon S3 bucket. The company is concerned that sensitive information, such as personally identifiable information (PII), might be included in some of the data that is ingested. The company needs a solution that will scan for sensitive data and log the findings. What should a solutions architect recommend to meet these requirements?

- A. Deploy Amazon Inspector to scan the ingested data. Configure Amazon Inspector to log findings

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