E. Restore previous resource configurations with an AWS CloudFormation template

Correct Answer: AD

QUESTION 478
Which AWS service can a company use to store and manage Docker images?

A. Amazon DynamoDB
B. Amazon Kinesis Data Streams
C. Amazon Elastic Container Registry (Amazon ECR)
D. Amazon Elastic File System (Amazon EFS)

Correct Answer: C

QUESTION 479
A company runs its production workload on an Amazon Aurora MySQL DB cluster that includes six Aurora Replicas. The company wants near-real-time reporting queries from one of its departments to be automatically distributed across three of the Aurora Replicas. Those three replicas have a different compute and memory specification from the rest of the DB cluster. Which solution meets these requirements?

A. Create and use a custom endpoint for the workload
B. Create a three-node cluster clone and use the reader endpoint
C. Use any of the instance endpoints for the selected three nodes
D. Use the reader endpoint to automatically distribute the read-only workload

Correct Answer: A

QUESTION 480
A solutions architect must secure a VPC network that hosts Amazon EC2 instances. The EC2 instances contain highly sensitive data and tun n a private subnet. According to company policy the EC2 instances mat run m the VPC can access only approved third-party software repositories on the internet for software product updates that use the third party's URL. Other internet traffic must be blocked. Which solution meets these requirements?

A. Update the route table for the private subnet to route the outbound traffic to an AWS Network Firewall. Configure domain list rule groups.
B. Set up an AWS WAF web ACL. Create a custom set of rules that filter traffic requests based on source and destination IP address range sets.
C. Implement strict inbound security group roles. Configure an outbound rule that allows traffic only to the authorized software repositories on the internet by specifying the URLs.
D. Configure an Application Load Balancer (ALB) in front of the EC2 instances. Direct an outbound traffic to the ALB Use a URL-based rule listener in the ALB's target group for outbound access to the internet.

Correct Answer: C

QUESTION 481
A company is upgrading its critical web-based application. The application is hosted on Amazon EC2 instances that are part of an Auto Scaling group behind an Application Load Balancer (ALB). The company wants to test the new configurations with a specific amount of traffic before the company begins to route all traffic to the upgraded application. How should a solutions architect

design the architecture to meet these requirements?

A. Create a new launch template. Associate the new launch template with the Auto Scaling group. Attach the Auto Scaling group to the ALB. Distribute traffic by using redirect rules.
B. Create a new launch template. Create an additional Auto Scaling group. Associate the new launch template with the additional Auto Scaling group. Attach the additional Auto Scaling group to the ALB. Distribute traffic by using weighted target groups.
C. Create a new launch template. Create an additional Auto Scaling group. Associate the new launch template with the additional Auto Scaling group. Create an additional ALB. Attach the additional Auto Scaling group to the additional ALB. Use an Amazon Route 53 failover routing policy to route traffic.
D. Create a new launch template. Create an additional Auto Scaling group. Associate the new launch template with the additional Auto Scaling group. Create an additional ALB. Attach the additional Auto Scaling group to the additional ALB. Use an Amazon Route 53 weighted routing policy to route traffic.

Correct Answer: A

QUESTION 482
A company uses a simple state website and wants to host it on AWS. The company already has a domain that it uses for email. The company needs a hosting solution that supports HTTPS. Which solution will meet these requirements MOST cost-effectively?

A. Create an Amazon S3 bucket with a name to match the website. Upload the website to the S3 bucket. Set up website hosting for the S3 bucket. Set up the DNS to point to the S3 website endpoint.
B. Create an Amazon S3 bucket upload the website to the S3 bucket. Set up an HTTPS certificate by using AWS Certificate Manage (ACM). Create in Amazon CloudFront distribution for the S3 bucket and choose Price Class All.
C. Set up an open-source content management system (CMS) from AWS Marketplace. Deploy the CMS across two Availability Zones. Copy the website onto the CMS. Set up the DNS to point to me CMS.
D. Create an Amazon S3 bucket. Upload the website to the S3 bucket. Set up an HTTPS certificate by using AWS Certifcate Manager (ACM). Create an Amazon CloudFront distribution for the S3 bucket and choose Price Class 100 Point to the CloudFront distribution.

Correct Answer: D

QUESTION 483
A company is hosting multiple websites for several lines of business under its registered parent domain. Users accessing these websites will be routed to appropriate backend Amazon EC2 instances based on the subdomain. The websites host static webpages images, and server-side scripts like PHP and JavaScript. Some of the websites experience peak access during the first two hours of business with constant usage throughout the rest of the day. A solutions architect needs to design a solution that will automatically adjust capacity to these traffic patterns while keeping costs low. Which combination of AWS services or features will meet these requirements? (Select TWO)

A. AWS Batch
B. Network Load Balancer
C. Application Load Balancer
D. Amazon EC2 Auto Scaling
E. Amazon S3 website hosting

Correct Answer: DE

QUESTION 484
A company has a highly dynamic batch processing job that uses many Amazon EC2 instances to complete it. The job is stateless in nature, can be started and stopped at any given time with no negative impact, and typically takes upwards of 60 minutes total to complete. The company has asked a solutions architect to design a scalable and cost-effective solution that meets the requirements of the job. What should the solutions architect recommend?

A. Implement EC2 Spot Instances
B. Purchase EC2 Reserved Instances
C. Implement EC2 On-Demand Instances
D. Implement the processing on AWS Lambda

Correct Answer: A

QUESTION 485
A company is using Amazon Route 53 latency-based routing to route requests to its UDP-based application for users around the world. The application is hosted on redundant servers in the company's on-premises data centers in the United States, Asia, and Europe. The company's compliance requirements state that the application must be hosted on premises. The company wants to improve the performance and availability of the application. What should a solutions architect do to meet these requirements?

A. Configure three Network Load Balancers (NLBs) in the three AWS Regions to address the on-premises endpoints. Create an accelerator by using AWS Global Accelerator and register the NLBs as its endpoints. Provide access to the application by using a CNAME that points to the accelerator DNS.
B. Configure three Application Load Balancers (ALBs) in the three AWS Regions to address the on-premises endpoints. Create an accelerator by using AWS Global Accelerator and register the ALBs as its endpoints. Provide access to the application by using a CNAME that points to the accelerator DNS.
C. Configure three Network Load Balancers (NLBs) in the three AWS Regions to address the on-premises endpoints. In Route 53, create a latency-based record that points to the three NLBs and use it as an origin for an Amazon CloudFront distribution. Provide access to the application by using a CNAME that points to the CloudFront DNS.
D. Configure three Application Load Balancers (ALBs) in the three AWS Regions to address the on-premises endpoints. In Route 53, create a latency-based record that points to the three ALBs and use it as an origin for an Amazon CloudFront distribution. Provide access to the application by using a CNAME that points to the CloudFront DNS.

Correct Answer: A

QUESTION 486
A company hosts a multi-tier web application that uses an Amazon Aurora MySQL DB cluster for

storage. The application tier is hosted on Amazon EC2 instances. The company's IT security guidelines mandate that the database credentials be encrypted and rotated every 14 days. What should a solutions architect do to meet this requirement with the LEAST operational effort?

A. Create a new AWS Key Management Service (AWS KMS) encryption key. Use AWS Secrets Manager to create a new secret that uses the KMS key with the appropriate credentials. Associate the secret with the Aurora DB cluster. Configure a custom rotation period of 14 days.
B. Create two parameters m AWS Systems Manager Parameter Store one for the user name as a string parameter and one that uses the SecureStnng type for the password. Select AWS Key Management Service (AWS KMS) encryption for the password parameter, and load these parameters in the application tier. Implement an AWS Lambda function that rotates the password every 14 days.
C. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system in all EC2 instances of the application tier. Restrict the access to the file on the file system so that the application can read the file and that only super users can modify the file. Implement an AWS Lambda function that rotates the key in Aurora every 14 days and writes new credentials into the file.
D. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon S3 bucket that the application uses to load the credentials. Download the file to the application regularly to ensure that the correct credentials are used Implement an AWS Lambda function that rotates the Aurora credentials every 14 days and uploads these credentials to the file in the S3 bucket.

Correct Answer: A

QUESTION 487

A company is deploying an application that processes large quantities of data in parallel. The company plans to use Amazon EC2 instances for the workload. The network architecture must be configurable to prevent groups of nodes from sharing the same underlying hardware. Which networking solution meets these requirements?

A. Run the EC2 instances in a spread placement group.
B. Group the EC2 instances in separate accounts.
C. Configure the EC2 instances with dedicated tenancy.
D. Configure the EC2 instances with shared tenancy.

Correct Answer: A

QUESTION 488

A company processes images into thumbnails and returns an email confirmation to the end user upon completion. The company's existing solution is facing performance bottlenecks and scalability issues. The company wants to migrate this process to AWS and implement a solution that requires the least possible configuration. Which solution meets these requirements?

A. Use Amazon S3 to store images and send notifications to AWS Lambda. Configure an AWS Lambda function to process the images into thumbnails, store the thumbnails in Amazon S3, and send an email confirmation through Amazon Simple Email Service (Amazon SES).
B. Use Amazon S3 to store images and send notifications to Amazon Simple Queue Service (Amazon SQS). Configure an Amazon EC2 instance to poll the SQS queue to process the images into thumbnails, store the thumbnails in Amazon S3, and send an email confirmation through Amazon Simple Email Service (Amazon SES).
C. Use Amazon S3 to store images and send notifications to Amazon Simple Notification Service (Amazon SNS). Configure Amazon SNS to invoke an AWS Lambda function to process the images into thumbnails, store the thumbnails in Amazon S3, and send an email confirmation

through Amazon Simple Email Service (Amazon SES).

D. Use Amazon S3 to store images and send notifications to Amazon Simple Queue Service (Amazon SQS). Configure an AWS Lambda function to retrieve the messages from the SQS queue process the images into thumbnails, store the thumbnails in Amazon S3, and send an email confirmation through Amazon Simple Email Service (Amazon SES).

Correct Answer: C

QUESTION 489

A company copies 200 TB of data from a recent ocean survey onto AWS Snowball Edge Storage Optimized devices. The company has a high performance computing (HPC) cluster that is hosted on AWS to look for oil and gas deposits. A solutions architect must provide the cluster with consistent sub-millisecond latency and high-throughput access to the data on the Snowball Edge Storage Optimized devices. The company is sending the devices back to AWS. Which solution will meet these requirements'?

A. Create an Amazon S3 bucket Import the data into the S3 bucket. Configure an AWS Storage Gateway file gateway to use the S3 bucket. Access the file gateway from the HPC cluster instances.
B. Create an Amazon S3 bucket Import the data into the S3 bucket. Configure an Amazon FSx for Lustre file system and integrate it with the S3 bucket. Access the FSx for Lustre file system from the HPC cluster instances.
C. Create an Amazon S3 bucket and an Amazon Elastic File System (Amazon EFS) file system Import the data into the S3 bucket. Copy the data from the S3 bucket to the EFS file system. Access the EFS file system from the HPC cluster instances.
D. Create an Amazon FSx for Lustre file system. Import the data directly into the FSx for Lustre file system. Access the FSx for Lustre file system from the HPC cluster instances.

Correct Answer: A

QUESTION 490

A company needs a backup strategy for its three-tier stateless web application. The web application runs on Amazon EC2 instances in an Auto Scaling group with a dynamic scaling policy that is configured to respond to scaling events. The database tier runs on Amazon RDS for PostgreSQL. The web application does not require temporary local storage on the EC2 instances. The company's recovery point objective (RPO) is 2 hours. The backup strategy must maximize scalability and optimize resource utilization for this environment. Which solution will meet these requirements?

A. Take snapshots of Amazon Elastic Block Store (Amazon EBS) volumes of the EC2 instances and database every 2 hours to meet the RPO.
B. Configure a snapshot lifecycle policy to take Amazon Elastic Block Store (Amazon EBS) snapshots. Enable automated backups in Amazon RDS to meet the RPO.
C. Retain the latest Amazon Machine Images (AMIs) of the web and application tiers. Enable automated backups in Amazon RDS and use point-in-time recovery to meet the RPO.
D. Take snapshots of Amazon Elastic Block Store (Amazon EBS) volumes of the EC2 instances every 2 hours. Enable automated backups in Amazon RDS and use point-in-time recovery to meet the RPO.

Correct Answer: D

QUESTION 491