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A company is planning to build a new web application on AWS. The company expects predictable traffic most of the year and very high traffic on occasion. The web application needs to be highly available and fault tolerant with minimal latency. What should a solutions architect recommend to meet these requirements?

- A. Use an Amazon Route 53 routing policy to distribute requests to two AWS Regions each with one Amazon EC2 instance.
- B. Use Amazon EC2 instances in an Auto Scaling group with an Application Load Balancer across multiple Availability Zones.
- C. Use Amazon EC2 instances in a cluster placement group with an Application Load Balancer across multiple Availability Zones.
- D. Use Amazon EC2 instances in a cluster placement group and include the cluster placement group within a new Auto Scaling group.

Correct Answer: B

QUESTION 392

A global company plans to track and store information about local allergens in an Amazon DynamoDB table and query this data from its website. The website traffic will fluctuate. The combined read capacity units (RCUs) and write capacity units (WCUs) will range from 10 per second to 10,000 per second, depending on the severity of the conditions for the given day. A solutions architect must design a solution that avoids throttling issues and manages capacity efficiently. The solution also must provide the ability to set a maximum number of capacity units. What should the solutions architect do to meet these requirements?

- A. Use provisioned capacity mode. Set the table's maximum RCUs to 10,000.
- B. Use provisioned capacity mode. Configure a scaling policy in DynamoDB auto scaling.
- C. Use on-demand capacity mode. Set the table's maximum RCUs to 10,000.
- D. Use on-demand capacity mode for a couple of months. Then switch to provisioned capacity mode.

Correct Answer: B

QUESTION 393

A company wants to share data that collected from self-driving cars with the automobile community. The data will be made available from within an Amazon S3 bucket. The company wants to minimize its cost of making this data available to other AWS accounts. What should a solutions architect do to accomplish this goal?

- A. Create an S3 VPC endpoint for the bucket
- B. Configure the S3 bucket to be a Requester Pays bucket
- C. Create an Amazon CloudFront distribution in front of the S3 bucket
- D. Require that the files be accessed only with the use of the BitTorrent protocol

Correct Answer: B

QUESTION 394

A company has multiple AWS accounts with applications deployed in the us-west-2 Region. Application logs are stored within Amazon S3 buckets in each account. The company wants to build a centralized log analysis solution that uses a single S3 bucket. Logs must not leave us-west-2, and the company wants to incur minimal operational overhead. Which solution meets these requirements and is MOST cost-effective?

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- A. Create an S3 Lifecycle policy that copies the objects from one of the application S3 buckets to the centralized S3 bucket.
- B. Use S3 Same-Region Replication to replicate logs from the S3 buckets to another S3 bucket in us-west-2. Use this S3 bucket for log analysis.
- C. Write a script that uses the PutObject API operation every day to copy the entire contents of the buckets to another S3 bucket in us-west-2. Use this S3 bucket for log analysis.
- D. Write AWS Lambda functions in these accounts that are triggered every time logs are delivered to the S3 buckets (s3:ObjectCreated: *event). Copy the logs to another S3 bucket in us-west-2. Use this S3 bucket for log analysis.

Correct Answer: B

QUESTION 395

A company runs batch processes on Amazon EC2 instances that are needed only during business hours. These processes must preserve the data at all times but the speed of processing is not important. The company needs to run these processes in the MOST cost-effective manner. Which solution will meet these requirements?

- A. Use EC2 Reserved Instances with the All Upfront payment option
- B. Use EC2 Reserved instances with the Partial Upfront payment option
- C. Use Spot Fleet requests with the allocation strategy set to lowestPnce
- D. Use persistent Spot Instance requests with behaviour that stops interrupted instances

Correct Answer: B

QUESTION 396

A company is hosting its website on Amazon S3 and is using Amazon CloudFront to cache content. The company has an upcoming product launch. An employee accidentally published marketing content to the website before the official release of the product. The company needs to remove the marketing content from the website as quickly as possible. Which solution will meet these requirements?

- A. Deploy the updated version of the website to another S3 bucket. Update the origin for CloudFront.
- B. Delete the marketing content in the existing S3 bucket. Invalidate the file path in CloudFront.
- C. Create a new CloudFront cache policy with a low TTL. Associate the new policy with the existing CloudFront distribution.
- D. Delete the marketing content in the existing S3 bucket. Update the S3 bucket policy to block requests to the file path.

Correct Answer: B

QUESTION 397

A company is building its web application by using containers on AWS. The company requires three instances of the web application to run at all times. The application must be highly available and must be able to scale to meet increases in demand. Which solution meets these requirements?

- A. Use the AWS Fargate launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster. Create a task definition for the web application. Create an ECS service that has a desired count of three tasks.
- B. Use the Amazon EC2 launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster that has three container instances in one Availability Zone. Create a task definition for the web application. Place one task for each container instance.
- C. Use the AWS Fargate launch type to create an Amazon Elastic Container Service (Amazon ECS)

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- cluster that has three container instances in three different Availability Zones. Create a task definition for the web application. Create an ECS service that has a desired count of three tasks.
- D. Use the Amazon EC2 launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster that has one container instance in two different Availability Zones. Create definition for the web application. Place two tasks on one container instance. Place one task on the remaining container instance.

Correct Answer: C

QUESTION 398

A company has an application workflow that uses an AWS Lambda function to download and decrypt files from Amazon S3. These files are encrypted using AWS Key Management Service Customer Master Keys (AWS KMS CMKs). A solutions architect needs to design a solution that will ensure the required permissions are set correctly. Which combination of actions accomplish this? (Select TWO.)

- A. Attach the kms:decrypt permission to the Lambda function's resource policy.
- B. Grant the decrypt permission for the Lambda IAM role in the KMS key's policy.
- C. Grant the decrypt permission for the Lambda resource policy in the KMS key's policy.
- D. Create a new IAM policy with the kms:decrypt permission and attach the policy to the Lambda function.
- E. Create a new IAM role with the kms:decrypt permission and attach the execution role to the Lambda function.

Correct Answer: AE

QUESTION 399

A company is migrating to the AWS Cloud. A file server is the first workload to migrate. Users must be able to access the file share using the Server Message Block (SMB) protocol. Which AWS managed service meets these requirements?

- A. Amazon EBS
- B. Amazon EC2
- C. Amazon FSx
- D. Amazon S3

Correct Answer: C

QUESTION 400

A company is designing a message-driven order processing application on AWS. The application consists of many services and needs to communicate the results of its processing to multiple consuming services. Each of the consuming services may take up to 5 days to receive the messages. Which process will meet these requirements?

- A. The application sends the results of its processing to an Amazon Simple Notification Service (Amazon SNS) topic. Each consuming service subscribes to this SNS topic and consumes the results.
- B. The application sends the results of its processing to an Amazon Simple Notification Service (Amazon SNS) topic. Each consuming service consumes the messages directly from its corresponding SNS topic.
- C. The application sends the results of its processing to an Amazon Simple Queue Service (Amazon SQS) queue. Each consuming service runs as an AWS Lambda function that consumes this single SQS queue.
- D. The application sends the results of its processing to an Amazon Simple Notification Service

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(Amazon SNS) topic. An Amazon Simple Queue Service (Amazon SQS) queue is created for each service and each queue is configured to be a subscriber of the SNS topic.

Correct Answer: C

QUESTION 401

A company needs to store data from its healthcare application. The application's data frequently changes. A new regulation requires audit access at all levels of the stored data. The company hosts the application on an on-premises infrastructure that is running out of storage capacity. A solutions architect must securely migrate the existing data to AWS while satisfying the new regulation. Which solution will meet these requirements?

- A. Use AWS DataSync to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.
- B. Use AWS Snowcone to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.
- C. Use Amazon S3 Transfer Acceleration to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.
- D. Use AWS Storage Gateway to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.

Correct Answer: A

QUESTION 402

A company is building an application that consists of several microservices. The company has decided to use container technologies to deploy its software on AWS. The company needs a solution that minimizes the amount of ongoing effort for maintenance and scaling. The company cannot manage additional infrastructure. Which combination of actions should a solutions architect take to meet these requirements? {Select TWO}

- A. Deploy an Amazon Elastic Container Service (Amazon ECS) cluster.
- B. Deploy the Kubernetes control plane on Amazon EC2 instances that span multiple Availability Zones.
- C. Deploy an Amazon Elastic Container Service (Amazon ECS) service with an Amazon EC2 launch type. Specify a desired task number level of greater than or equal to 2.
- D. Deploy an Amazon Elastic Container Service (Amazon ECS) service with a Fargate launch type. Specify a desired task number level of greater than or equal to 2.
- E. Deploy Kubernetes worker nodes on Amazon EC2 instances that span multiple Availability Zones. Create a deployment that specifies two or more replicas for each microservice.

Correct Answer: BD

QUESTION 403

An application development team is designing a microservice that will convert large images to smaller compressed images. When a user uploads an image through the web interface the microservice should store the image in an Amazon S3 bucket process and compress the image with an AWS Lambda function, and store the image in its compressed form in a different S3 bucket. A solutions architect needs to design a solution that uses durable stateless components to process the images automatically. Which combination of actions will meet these requirements? (Select TWO)

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- A. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure the S3 bucket to send a notification to the SQS queue when an image is uploaded to the S3 bucket.
- B. Configure the Lambda function to use the Amazon Simple Queue Service (Amazon SQS) queue as the invocation source. When the SQS message is successfully processed, delete the message in the queue.
- C. Configure the Lambda function to monitor the S3 bucket for new uploads. When an uploaded image is detected write the file name to a text file in memory and use the text file to keep track of the images that were processed.
- D. Launch an Amazon EC2 instance to monitor an Amazon Simple Queue Service (Amazon SQS) queue. When items are added to the queue log the file name in a text file on the EC2 instance and invoke the Lambda function.
- E. Configure an Amazon EventBridge (Amazon CloudWatch Events) event to monitor the S3 bucket. When an image is uploaded send an alert to an Amazon Simple Notification Service (Amazon SNS) topic with the application owner's email address for further processing.

Correct Answer: AB

QUESTION 404

A company has a hybrid application hosted on multiple on-premises servers with static IP addresses. There is already a VPN that provides connectivity between the VPC and the on-premises network. The company wants to distribute TCP traffic across the on-premises servers for internet users. What should a solutions architect recommend to provide a highly available and scalable solution?

- A. Launch an internet-facing Network Load Balancer (NLB) and register on-premises IP addresses with the NLB.
- B. Launch an internet-facing Application Load Balancer (ALB) and register on-premises IP addresses with the ALB.
- C. Launch an Amazon EC2 instance attach an Elastic IP address, and distribute traffic to the on-premises servers.
- D. Launch an Amazon EC2 instance with public IP addresses in an Auto Scaling group and distribute traffic to the on-premises servers.

Correct Answer: B

QUESTION 405

An online gaming company is designing a game that is expected to be popular all over the world. A solutions architect needs to define an AWS Cloud architecture that supports near-real-time recording and displaying of current game statistics for each player along with the names of the top 25 players in the world at any given time. Which AWS database solution and configuration should the solutions architect use to meet these requirements?

- A. Use Amazon RDS for MySQL as the data store for player activity. Configure the RDS DB instance for Multi-AZ support.
- B. Use Amazon DynamoDB as the data store for player activity. Configure DynamoDB Accelerator (DAX) for the player data.
- C. Use Amazon DynamoDB as the data store for player activity. Configure global tables in each required AWS Region for the player data.
- D. Use Amazon RDS for MySQL as the data store for player activity. Configure cross-Region read replicas in each required AWS Region based on player proximity.

Correct Answer: B

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