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QUESTION 1

A company runs Amazon EC2 instances in multiple AWS accounts that are individually billed. The company recently purchased a Savings Plan. Because of changes in the company's business requirements, the company has decommissioned a large number of EC2 instances. The company wants to use its Savings Plan discounts on its other AWS accounts.

Which combination of steps will meet these requirements? (Choose two.)

- A. From the AWS Account Management Console of the management account, turn on discount sharing from the billing preferences section.
- B. From the AWS Account Management Console of the account that purchased the existing Savings Plan, turn on discount sharing from the billing preferences section. Include all accounts.
- C. From the AWS Organizations management account, use AWS Resource Access Manager (AWS RAM) to share the Savings Plan with other accounts.
- D. Create an organization in AWS Organizations in a new payer account. Invite the other AWS accounts to join the organization from the management account.
- E. Create an organization in AWS Organizations in the existing AWS account with the existing EC2 instances and Savings Plan. Invite the other AWS accounts to join the organization from the management account.

Correct Answer: AE

QUESTION 2

A social media company wants to allow its users to upload images in an application that is hosted in the AWS Cloud. The company needs a solution that automatically resizes the images so that the images can be displayed on multiple device types. The application experiences unpredictable traffic patterns throughout the day. The company is seeking a highly available solution that maximizes scalability.

What should a solutions architect do to meet these requirements?

- A. Create a static website hosted in Amazon S3 that invokes AWS Lambda functions to resize the images and store the images in an Amazon S3 bucket.
- B. Create a static website hosted in Amazon CloudFront that invokes AWS Step Functions to resize the images and store the images in an Amazon RDS database.
- C. Create a dynamic website hosted on a web server that runs on an Amazon EC2 instance. Configure a process that runs on the EC2 instance to resize the images and store the images in an Amazon S3 bucket.
- D. Create a dynamic website hosted on an automatically scaling Amazon Elastic Container Service (Amazon ECS) cluster that creates a resize job in Amazon Simple Queue Service (Amazon SQS). Set up an image-resizing program that runs on an Amazon EC2 instance to process the resize jobs.

Correct Answer: A

By using Amazon S3 and AWS Lambda together, you can create a serverless architecture that provides highly scalable and available image resizing capabilities. Here's how the solution would work:



Set up an Amazon S3 bucket to store the original images uploaded by users.

Configure an event trigger on the S3 bucket to invoke an AWS Lambda function whenever a new image is uploaded.

The Lambda function can be designed to retrieve the uploaded image, perform the necessary resizing operations based on device requirements, and store the resized images back in the S3 bucket or a different bucket designated for resized images.

Configure the Amazon S3 bucket to make the resized images publicly accessible for serving to users.

QUESTION 3

A company has AWS Lambda functions that use environment variables. The company does not want its developers to see environment variables in plaintext. Which solution will meet these requirements?

- A. Deploy code to Amazon EC2 instances instead of using Lambda functions.
- B. Configure SSL encryption on the Lambda functions to use AWS CloudHSM to store and encrypt the environment variables.
- C. Create a certificate in AWS Certificate Manager (ACM). Configure the Lambda functions to use the certificate to encrypt the environment variables.
- D. Create an AWS Key Management Service (AWS KMS) key. Enable encryption helpers on the Lambda functions to use the KMS key to store and encrypt the environment variables.

Correct Answer: D

QUESTION 4

A company is storing sensitive user information in an Amazon S3 bucket. The company wants to provide secure access to this bucket from the application tier running on Amazon EC2 instances inside a VPC. Which combination of steps should a solutions architect take to accomplish this? (Select TWO.)

- A. Configure a VPC gateway endpoint for Amazon S3 within the VPC
- B. Create a bucket policy to make the objects in the S3 bucket public
- C. Create a bucket policy that limits access to only the application tier running in the VPC
- D. Create an IAM user with an S3 access policy and copy the IAM credentials to the EC2 instance
- E. Create a NAT instance and have the EC2 instances use the NAT instance to access the S3 bucket

Correct Answer: AC

<https://aws.amazon.com/premiumsupport/knowledge-center/s3-private-connection-no-authentication/>

QUESTION 5



A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices. Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket. The app

retrieves these video clips directly from the S3 bucket. However the videos are large in their raw format.

Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead.

Which combination of solutions will meet these requirements? (Select TWO.)

- A. Deploy Amazon CloudFront for content delivery and caching
- B. Use AWS DataSync to replicate the video files across AWS Regions in other S3 buckets
- C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats
- D. Deploy an Auto Scaling group of Amazon EC2 instances in Local Zones for content delivery and caching
- E. Deploy an Auto Scaling group of Amazon EC2 instances to convert the video files to more appropriate formats

Correct Answer: AC

Amazon CloudFront is a content delivery network (CDN) that can help improve the performance and scalability of the app by caching content at edge locations, reducing latency, and improving the delivery of video clips to users. CloudFront can also provide features such as DDoS protection, SSL/TLS encryption, and content compression to optimize the delivery of video clips.

Amazon Elastic Transcoder is a service that can help optimize the video format for mobile devices, reducing the size of the video files, and improving the playback performance. Elastic Transcoder can also convert videos into multiple formats to support different devices and platforms.

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