DVA-C01^{Q&As}

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QUESTION 1

A movie fan club hosts a serverless web application in an Amazon S3 bucket. The application uses an AWS Lambda function that is exposed by an Amazon API Gateway API. The function queries an Amazon DynamoDB table to list actors sorted by movie. In the DynamoDB table. Actor is the primary key, Movie is the sort key, and Role and Year are attributes.

In the web application, a developer wants to add a page that is named Phase 1 that lists only the movies that were released between 2008 and 2012. The developer needs to fetch the Phase 1 items in a way that minimizes the impact on the DynamoDB table.

Which solution will meet these requirements?

A. Create a global secondary index (GSI) with the Year attribute as the sort key. Create a Lambda function to return the results from a new method in the API.

B. Design a Lambda function that scans the DynamoDB table and filters the results for the Phase 1 items. Invoke the function from a new method in the API.

C. Use a DynamoDB stream to send items that are filtered by Year to a new DynamoDB table. Invoke a Lambda function from a new method in the API.

D. Set up an Amazon CloudFront distribution. Create a Lambda@Edge function to filter the items that are returned from the API request.

Correct Answer: B

QUESTION 2

An application uploads photos to an Amazon S3 bucket. Each photo that is uploaded to the S3 bucket must be resized to a thumbnail image by the application. Each thumbnail image is uploaded with a new name in the same S3 bucket. Which AWS service can a developer configure to directly process each single S3 event for each S3 object upload?

A. Amazon EC2

B. Amazon Elastic Container Service (Amazon ECS)

C. AWS Elastic Beanstalk

D. AWS Lambda

Correct Answer: D

Reference: https://docs.aws.amazon.com/lambda/latest/dg/with-s3-example.html

QUESTION 3

Company D is running their corporate website on Amazon S3 accessed from http//www.companyd.com. Their marketing team has published new web fonts to a separate S3 bucket accessed by the S3 endpoint https://s3-us-

west1.amazonaws.com/cdfonts. While testing the new web fonts, Company D recognized the web fonts are being blocked by the browser.

What should Company D do to prevent the web fonts from being blocked by the browser?

A. Enable versioning on the cdfonts bucket for each web font

B. Create a policy on the cdfonts bucket to enable access to everyone

C. Add the Content-MD5 header to the request for webfonts in the cdfonts bucket from the website

D. Configure the cdfonts bucket to allow cross-origin requests by creating a CORS configuration

Correct Answer: D

https://docs.aws.amazon.com/AmazonS3/latest/dev/cors.html

QUESTION 4

A Developer is writing transactions into a DynamoDB table called "SystemUpdates" that has 5 write capacity units. Which option has the highest read throughput?

A. Eventually consistent reads of 5 read capacity units reading items that are 4 KB in size

B. Strongly consistent reads of 5 read capacity units reading items that are 4 KB in size

C. Eventually consistent reads of 15 read capacity units reading items that are 1 KB in size

D. Strongly consistent reads of 15 read capacity units reading items that are 1 KB in size

Correct Answer: B

QUESTION 5

A company has 25,000 employees and is growing. The company is creating an application that will be accessible to its employees only. A developer is using Amazon S3 to store images and Amazon RDS to store application data. The company requires that all employee information remain in the legacy Security Assertion Markup Language (SAML) employee directory only and is not interested in mirroring any employee information on AWS.

How can the developer provide authorized access for the employees who will be using this application so each employee can access their own application data only?

A. Use Amazon VPC and keep all resources inside the VPC, and use a VPC link for the S3 bucket with the bucket policy.

B. Use Amazon Cognito user pools, federate with the SAML provider, and use user pool groups with an IAM policy.

C. Use an Amazon Cognito identity pool, federate with the SAML provider, and use an IAM condition key with a value for the cognito-identity.amazonaws.com:sub variable to grant access to the employees.

D. Create a unique IAM role for each employee and have each employee assume the role to access the application so they can access their personal data only.

Correct Answer: C

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_iam-condition-keys.html

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