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QUESTION 1

A company moved some of its secure files to a private Amazon S3 bucket that has no public access. The company wants to develop a serverless application that gives its employees the ability to log in and securely share the files with other users.

Which AWS feature should the company use to share and access the files securely?

A. Amazon Cognito user pool

B. S3 presigned URLs

C. S3 bucket policy

D. Amazon Cognito identity pool

Correct Answer: A

QUESTION 2

A company is using Amazon RDS as the backend database for its application. After a recent marketing campaign, a surge of read requests to the database increased the latency of data retrieval from the database. The company has decided to implement a caching layer in front of the database. The cached content must be encrypted and must be highly available.

Which solution will meet these requirements?

A. Amazon CloudFront

B. Amazon ElastiCache for Memcached

C. Amazon ElastiCache for Redis in cluster mode

D. Amazon DynamoDB Accelerator (DAX)

Correct Answer: C

QUESTION 3

A company is developing an ecommerce application that uses Amazon API Gateway APIs. The application uses AWS Lambda as a backend. The company needs to test the code in a dedicated, monitored test environment before the company releases the code to the production environment.

Which solution will meet these requirements?

A. Use a single stage in API Gateway. Create a Lambda function for each environment. Configure API clients to send a query parameter that indicates the environment and the specific Lambda function.

B. Use multiple stages in API Gateway. Create a single Lambda function for all environments. Add different code blocks for different environments in the Lambda function based on Lambda environment variables.

C. Use multiple stages in API Gateway. Create a Lambda function for each environment. Configure API Gateway stage variables to route traffic to the Lambda function in different environments.

D. Use a single stage in API Gateway. Configure API clients to send a query parameter that indicates the environment. Add different code blocks for different environments in the Lambda function to match the value of the query parameter.

Correct Answer: C

QUESTION 4

A company is updating an application to move the backend of the application from Amazon EC2 instances to a serverless model. The application uses an Amazon RDS for MySQL DB instance and runs in a single VPC on AWS. The

application and the DB instance are deployed in a private subnet in the VPC.

The company needs to connect AWS Lambda functions to the DB instance.

Which solution will meet these requirements?

A. Create Lambda functions inside the VPC with the AWSLambdaBasicExecutionRole policy attached to the Lambda execution role. Modify the RDS security group to allow inbound access from the Lambda security group.

B. Create Lambda functions inside the VPC with the AWSLambdaVPCAccessExecutionRole policy attached to the Lambda execution role. Modify the RDS security group to allow inbound access from the Lambda security group.

C. Create Lambda functions with the AWSLambdaBasicExecutionRole policy attached to the Lambda execution role. Create an interface VPC endpoint for the Lambda functions. Configure the interface endpoint policy to allow the lambda:InvokeFunclion action for each Lambda function\\'s Amazon Resource Name (ARN).

D. Create Lambda functions with the AWSLambdaVPCAccessExecutionRole policy attached to the Lambda execution role. Create an interface VPC endpoint for the Lambda functions. Configure the interface endpoint policy to allow the lambda:InvokeFunction action for each Lambda function\\'s Amazon Resource Name (ARN).

Correct Answer: B

The AWSLambdaVPCAccessExecutionRole policy allows the Lambda function to create elastic network interfaces (ENIs) in the VPC and use the security groups attached to those ENIs for controlling inbound and outbound traffic.

QUESTION 5

A developer is creating an application that will be deployed on IoT devices. The application will send data to a RESTful API that is deployed as an AWS Lambda function. The application will assign each API request a unique identifier. The volume of API requests from the application can randomly increase at any given time of day.

During periods of request throttling, the application might need to retry requests. The API must be able to handle duplicate requests without inconsistencies or data loss.

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Which solution will meet these requirements?

A. Create an Amazon RDS for MySQL DB instance. Store the unique identifier for each request in a database table. Modify the Lambda function to check the table for the identifier before processing the request.

B. Create an Amazon DynamoDB table. Store the unique identifier for each request in the table. Modify the Lambda function to check the table for the identifier before processing the request.

C. Create an Amazon DynamoDB table. Store the unique identifier for each request in the table. Modify the Lambda function to return a client error response when the function receives a duplicate request.

D. Create an Amazon ElastiCache for Memcached instance. Store the unique identifier for each request in the cache. Modify the Lambda function to check the cache for the identifier before processing the request.

Correct Answer: B

The resolution is to make the Lambda function idempotent. https://repost.aws/knowledge-center/lambda-function-idempotent https://aws.amazon.com/builders-library/making-retries-safe-with-idempotent-APIs/

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