DVA-C02$^{\text{Q\&As}}$

AWS Certified Developer - Associate

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QUESTION 1

A developer is testing a new file storage application that uses an Amazon CloudFront distribution to serve content from an Amazon S3 bucket. The distribution accesses the S3 bucket by using an origin access identity (OAI). The S3 bucket\\'s permissions explicitly deny access to all other users.

The application prompts users to authenticate on a login page and then uses signed cookies to allow users to access their personal storage directories. The developer has configured the distribution to use its default cache behavior with restricted viewer access and has set the origin to point to the S3 bucket. However, when the developer tries to navigate to the login page, the developer receives a 403 Forbidden error.

The developer needs to implement a solution to allow unauthenticated access to the login page. The solution also must keep all private content secure.

Which solution will meet these requirements?

A. Add a second cache behavior to the distribution with the same origin as the default cache behavior. Set the path pattern for the second cache behavior to the path of the login page, and make viewer access unrestricted. Keep the default cache behavior\\'s settings unchanged.

B. Add a second cache behavior to the distribution with the same origin as the default cache behavior. Set the path pattern for the second cache behavior to *, and make viewer access restricted. Change the default cache behavior\\'s path pattern to the path of the login page, and make viewer access unrestricted.

C. Add a second origin as a failover origin to the default cache behavior. Point the failover origin to the S3 bucket. Set the path pattern for the primary origin to *, and make viewer access restricted. Set the path pattern for the failover origin to the path of the login page, and make viewer access unrestricted.

D. Add a bucket policy to the S3 bucket to allow read access. Set the resource on the policy to the Amazon Resource Name (ARN) of the login page object in the S3 bucket. Add a CloudFront function to the default cache behavior to redirect unauthorized requests to the login page\\'s S3 URL.

Correct Answer: A

QUESTION 2

A company has multiple Amazon VPC endpoints in the same VPC. A developer needs to configure an Amazon S3 bucket policy so users can access an S3 bucket only by using these VPC endpoints. Which solution will meet these requirements?

A. Create multiple S3 bucket polices by using each VPC endpoint ID that have the aws:SourceVpce value in the StringNotEquals condition.

B. Create a single S3 bucket policy that has the aws:SourceVpc value and in the StringNotEquals condition to use VPC ID.

C. Create a single S3 bucket policy that has the aws:SourceVpce value and in the StringNotEquals condition to use vpce*.

D. Create a single S3 bucket policy that has multiple aws:sourceVpce value in the StringNotEquals condition. Repeat for all the VPC endpoint IDs.

Correct Answer: C

QUESTION 3

A company has a multi-node Windows legacy application that runs on premises. The application uses a network shared folder as a centralized configuration repository to store configuration files in .xml format. The company is migrating the application to Amazon EC2 instances. As part of the migration to AWS, a developer must identify a solution that provides high availability for the repository.

Which solution will meet this requirement MOST cost-effectively?

A. Mount an Amazon Elastic Block Store (Amazon EBS) volume onto one of the EC2 instances. Deploy a file system on the EBS volume. Use the host operating system to share a folder. Update the application code to read and write configuration files from the shared folder.

B. Deploy a micro EC2 instance with an instance store volume. Use the host operating system to share a folder. Update the application code to read and write configuration files from the shared folder.

C. Create an Amazon S3 bucket to host the repository. Migrate the existing .xml files to the S3 bucket. Update the application code to use the AWS SDK to read and write configuration files from Amazon S3.

D. Create an Amazon S3 bucket to host the repository. Migrate the existing .xml files to the S3 bucket. Mount the S3 bucket to the EC2 instances as a local volume. Update the application code to read and write configuration files from the disk.

Correct Answer: C

QUESTION 4

A company has an image storage web application that runs on AWS. The company hosts the application on Amazon EC2 instances in an Auto Scaling group. The Auto Scaling group acts as the target group for an Application Load Balancer

(ALB) and uses an Amazon S3 bucket to store the images for sale.

The company wants to develop a feature to test system requests. The feature will direct requests to a separate target group that hosts a new beta version of the application.

Which solution will meet this requirement with the LEAST effort?

A. Create a new Auto Scaling group and target group for the beta version of the application. Update the ALB routing rule with a condition that looks for a cookie named version that has a value of beta. Update the test system code to use this cookie to test the beta version of the application.

B. Create a new ALB, Auto Scaling group, and target group for the beta version of the application. Configure an alternate Amazon Route 53 record for the new ALB endpoint. Use the alternate Route 53 endpoint in the test system requests to test the beta version of the application.

C. Create a new ALB, Auto Scaling group, and target group for the beta version of the application. Use Amazon CloudFront with Lambda@Edge to determine which specific request will go to the new ALB. Use the CloudFront endpoint to send the test system requests to test the beta version of the application.

D. Create a new Auto Scaling group and target group for the beta version of the application. Update the ALB routing rule with a condition that looks for a cookie named version that has a value of beta. Use Amazon CloudFront with Lambda@Edge to update the test system requests to add the required cookie when the requests go to the ALB.

Correct Answer: A

QUESTION 5

A mobile app stores blog posts in an Amazon DynamoDB table. Millions of posts are added every day, and each post represents a single item in the table. The mobile app requires only recent posts. Any post that is older than 48 hours can be removed.

What is the MOST cost-effective way to delete posts that are older than 48 hours?

A. For each item, add a new attribute of type String that has a timestamp that is set to the blog post creation time. Create a script to find old posts with a table scan and remove posts that are older than 48 hours by using the BatchWriteItem API operation. Schedule a cron job on an Amazon EC2 instance once an hour to start the script.

B. For each item, add a new attribute of type String that has a timestamp that is set to the blog post creation time. Create a script to find old posts with a table scan and remove posts that are older than 48 hours by using the BatchWriteItem API operation. Place the script in a container image. Schedule an Amazon Elastic Container Service (Amazon ECS) task on AWS Fargate that invokes the container every 5 minutes.

C. For each item, add a new attribute of type Date that has a timestamp that is set to 48 hours after the blog post creation time. Create a global secondary index (GSI) that uses the new attribute as a sort key. Create an AWS Lambda function that references the GSI and removes expired items by using the BatchWriteItem API operation. Schedule the function with an Amazon CloudWatch event every minute.

D. For each item, add a new attribute of type Number that has a timestamp that is set to 48 hours after the blog post creation time. Configure the DynamoDB table with a TTL that references the new attribute.

Correct Answer: B

QUESTION 6

An application that runs on AWS Lambda requires access to specific highly confidential objects in an Amazon S3 bucket. In accordance with the principle of least privilege, a company grants access to the S3 bucket by using only temporary credentials.

How can a developer configure access to the S3 bucket in the MOST secure way?

A. Hardcode the credentials that are required to access the S3 objects in the application code. Use the credentials to access the required S3 objects.

B. Create a secret access key and access key ID with permission to access the S3 bucket. Store the key and key ID in AWS Secrets Manager. Configure the application to retrieve the Secrets Manager secret and use the credentials to access the S3 objects.

C. Create a Lambda function execution role. Attach a policy to the role that grants access to specific objects in the S3 bucket.

D. Create a secret access key and access key ID with permission to access the S3 bucket. Store the key and key ID as environment variables in Lambda. Use the environment variables to access the required S3 objects.

Correct Answer: D

QUESTION 7

A company developed an API application on AWS by using Amazon CloudFront, Amazon API Gateway, and AWS Lambda. The API has a minimum of four requests every second. A developer notices that many API users run the same query by using the POST method. The developer wants to cache the POST request to optimize the API resources.

Which solution will meet these requirements?

A. Configure the CloudFront cache. Update the application to return cached content based upon the default request headers.

B. Override the cache method in the selected stage of API Gateway. Select the POST method.

C. Save the latest request response in Lambda /tmp directory. Update the Lambda function to check the /tmp directory.

D. Save the latest request in AWS Systems Manager Parameter Store. Modify the Lambda function to take the latest request response from Parameter Store.

Correct Answer: B

QUESTION 8

A company deploys a photo-processing application to an Amazon EC2 instance. The application needs to process each photo in less than 5 seconds. If processing takes longer than 5 seconds, the company\\'s development team must receive a notification.

How can a developer implement the required time measurement and notification with the LEAST operational overhead?

A. Create an Amazon CloudWatch custom metric. Each time a photo is processed, publish the processing time as a metric value. Create a CloudWatch alarm that is based on a static threshold of 5 seconds. Notify the development team by using an Amazon Simple Notification Service (Amazon SNS) topic.

B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Each time a photo is processed, publish the processing time to the queue. Create an application to consume from the queue and to determine whether any values are more than 5 seconds. Notify the development team by using an Amazon Simple Notification Service (Amazon SNS) topic.

C. Create an Amazon CloudWatch custom metric. Each time a photo is processed, publish the processing time as a metric value. Create a CloudWatch alarm that enters ALARM state if the average of values is greater than 5 seconds. Notify the development team by sending an Amazon Simple Email Service (Amazon SES) message.

D. Create an Amazon Kinesis data stream. Each time a photo is processed, publish the processing time to the data stream. Create an Amazon CloudWatch alarm that enters ALARM state if any values are more than 5 seconds. Notify the development team by using an Amazon Simple Notification Service (Amazon SNS) topic.

Correct Answer: A

QUESTION 9

A company hosts a client-side web application for one of its subsidiaries on Amazon S3. The web application can be accessed through Amazon CloudFront from https://www.example.com. After a successful rollout, the company wants to host three more client-side web applications for its remaining subsidiaries on three separate S3 buckets.

To achieve this goal, a developer moves all the common JavaScript files and web fonts to a central S3 bucket that serves the web applications. However, during testing, the developer notices that the browser blocks the JavaScript files and web fonts.

What should the developer do to prevent the browser from blocking the JavaScript files and web fonts?

A. Create four access points that allow access to the central S3 bucket. Assign an access point to each web application bucket.

B. Create a bucket policy that allows access to the central S3 bucket. Attach the bucket policy to the central S3 bucket.

C. Create a cross-origin resource sharing (CORS) configuration that allows access to the central S3 bucket. Add the CORS configuration to the central S3 bucket.

D. Create a Content-MD5 header that provides a message integrity check for the central S3 bucket. Insert the Content-MD5 header for each web application request.

Correct Answer: C

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

Using cross-origin resource sharing (CORS):

Cross-origin resource sharing (CORS) defines a way for client web applications that are loaded in one domain to interact with resources in a different domain.

QUESTION 10

An Amazon Kinesis Data Firehose delivery stream is receiving customer data that contains personally identifiable information. A developer needs to remove pattern-based customer identifiers from the data and store the modified data in an Amazon S3 bucket.

What should the developer do to meet these requirements?

A. Implement Kinesis Data Firehose data transformation as an AWS Lambda function. Configure the function to remove the customer identifiers. Set an Amazon S3 bucket as the destination of the delivery stream.

B. Launch an Amazon EC2 instance. Set the EC2 instance as the destination of the delivery stream. Run an application on the EC2 instance to remove the customer identifiers. Store the transformed data in an Amazon S3 bucket.

C. Create an Amazon OpenSearch Service instance. Set the OpenSearch Service instance as the destination of the delivery stream. Use search and replace to remove the customer identifiers. Export the data to an Amazon S3 bucket.

D. Create an AWS Step Functions workflow to remove the customer identifiers. As the last step in the workflow, store the transformed data in an Amazon S3 bucket. Set the workflow as the destination of the delivery stream.

Correct Answer: A

https://docs.aws.amazon.com/firehose/latest/dev/data-transformation.html

QUESTION 11

A company uses Amazon API Gateway to expose a set of APIs to customers. The APIs have caching enabled in API Gateway. Customers need a way to invalidate the cache for each API when they test the API. What should a developer do to give customers the ability to invalidate the API cache?

A. Ask the customers to use AWS credentials to call the InvalidateCache API operation.

B. Attach an InvalidateCache policy to the IAM execution role that the customers use to invoke the API. Ask the customers to send a request that contains the Cache-Control:max-age=0 HTTP header when they make an API call.

C. Ask the customers to use the AWS SDK API Gateway class to invoke the InvalidateCache API operation.

D. Attach an InvalidateCache policy to the IAM execution role that the customers use to invoke the API. Ask the customers to add the INVALIDATE_CACHE query string parameter when they make an API call.

Correct Answer: D

QUESTION 12

Users are reporting errors in an application. The application consists of several microservices that are deployed on Amazon Elastic Container Service (Amazon ECS) with AWS Fargate. Which combination of steps should a developer take to fix the errors? (Choose two.)

A. Deploy AWS X-Ray as a sidecar container to the microservices. Update the task role policy to allow access to the X-Ray API.

B. Deploy AWS X-Ray as a daemonset to the Fargate cluster. Update the service role policy to allow access to the X-Ray API.

C. Instrument the application by using the AWS X-Ray SDK. Update the application to use the PutXrayTrace API call to communicate with the X-Ray API.

D. Instrument the application by using the AWS X-Ray SDK. Update the application to communicate with the X-Ray daemon.

E. Instrument the ECS task to send the stdout and stderr output to Amazon CloudWatch Logs. Update the task role policy to allow the cloudwatch:PullLogs action.

Correct Answer: DE

QUESTION 13

A company runs an application on AWS. The company deployed the application on Amazon EC2 instances. The application stores data on Amazon Aurora.

The application recently logged multiple application-specific custom DECRYP_ERROR errors to Amazon CloudWatch logs. The company did not detect the issue until the automated tests that run every 30 minutes failed. A developer must

implement a solution that will monitor for the custom errors and alert a development team in real time when these errors occur in the production environment.

Which solution will meet these requirements with the LEAST operational overhead?

A. Configure the application to create a custom metric and to push the metric to CloudWatch. Create an AWS CloudTrail alarm. Configure the CloudTrail alarm to use an Amazon Simple Notification Service (Amazon SNS) topic to send notifications.

B. Create an AWS Lambda function to run every 5 minutes to scan the CloudWatch logs for the keyword DECRYP_ERROR. Configure the Lambda function to use Amazon Simple Notification Service (Amazon SNS) to send a notification.

C. Use Amazon CloudWatch Logs to create a metric filter that has a filter pattern for DECRYP_ERROR. Create a CloudWatch alarm on this metric for a threshold >=1. Configure the alarm to send Amazon Simple Notification Service (Amazon SNS) notifications.

D. Install the CloudWatch unified agent on the EC2 instance. Configure the application to generate a metric for the keyword DECRYP_ERROR errors. Configure the agent to send Amazon Simple Notification Service (Amazon SNS) notifications.

Correct Answer: C

QUESTION 14

A company requires that all applications running on Amazon EC2 use IAM roles to gain access to AWS services. A developer is modifying an application that currently relies on IAM user access keys stored in environment variables to access Amazon DynamoDB tables using boto, the AWS SDK for Python.

The developer associated a role with the same permissions as the IAM user to the EC2 instance, then deleted the IAM user. When the application was restarted, the AWS AccessDeniedException messages started appearing in the application logs. The developer was able to use their personal account on the server to run DynamoDB API commands using the AWS CLI.

What is the MOST likely cause of the exception?

A. IAM policies might take a few minutes to propagate to resources.

B. Disabled environment variable credentials are still being used by the application.

C. The AWS SDK does not support credentials obtained using an instance role.

D. The instance\\'s security group does not allow access to http://169.254.169.254.

Correct Answer: B

QUESTION 15

A company is developing a serverless application that consists of various AWS Lambda functions behind Amazon API

Gateway APIs. A developer needs to automate the deployment of Lambda function code. The developer will deploy updated Lambda functions with AWS CodeDeploy. The deployment must minimize the exposure of potential errors to end users. When the application is in production, the application cannot experience downtime outside the specified maintenance window.

Which deployment configuration will meet these requirements with the LEAST deployment time?

A. Use the AWS CodeDeploy in-place deployment configuration for the Lambda functions. Shift all traffic immediately after deployment.

B. Use the AWS CodeDeploy linear deployment configuration to shift 10% of the traffic every minute.

C. Use the AWS CodeDeploy all-at-once deployment configuration to shift all traffic to the updated versions immediately.

D. Use the AWS CodeDeploy predefined canary deployment configuration to shift 10% of the traffic immediately and shift the remaining traffic after 5 minutes.

Correct Answer: D

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