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## Amazon AWS Certified Developer - Associate Sample Questions (Q503-Q508):

### NEW QUESTION # 503

A developer is migrating some features from a legacy monolithic application to use AWS Lambda functions instead. The application currently stores data in an Amazon Aurora DB cluster that runs in private subnets in a VPC. The AWS account has one VPC deployed. The Lambda functions and the DB cluster are deployed in the same AWS Region in the same AWS account. The developer needs to ensure that the Lambda functions can securely access the DB cluster without crossing the public internet. Which solution will meet these requirements?

- A. Configure an Amazon RDS database proxy for the Lambda functions.
- B. Configure a NAT gateway and a security group for the Lambda functions.

- C. Configure the DB cluster's public access setting to Yes.
- D. Configure the VPC, subnets, and a security group for the Lambda functions.

**Answer: D**

Explanation:

NATGateway is for when we want Lambda to access the public when it is in a private VPC.

<https://docs.aws.amazon.com/lambda/latest/dg/foundation-networking.html>

#### NEW QUESTION # 504

A developer is building a web application that uses Amazon API Gateway to expose an AWS Lambda function to process requests from clients. During testing, the developer notices that the API Gateway times out even though the Lambda function finishes under the set time limit.

Which of the following API Gateway metrics in Amazon CloudWatch can help the developer troubleshoot the issue? (Choose two.)

- A. CacheHitCount
- B. CacheMissCount
- C. Count
- D. Latency
- E. IntegrationLatency

**Answer: D,E**

Explanation:

Amazon API Gateway is a service that enables developers to create, publish, maintain, monitor, and secure APIs at any scale.

Amazon CloudWatch is a service that monitors AWS resources and applications. API Gateway provides several CloudWatch metrics to help developers troubleshoot issues with their APIs. Two of the metrics that can help the developer troubleshoot the issue of API Gateway timing out are:

IntegrationLatency: This metric measures the time between when API Gateway relays a request to the backend and when it receives a response from the backend. A high value for this metric indicates that the backend is taking too long to respond and may cause API Gateway to time out.

Latency: This metric measures the time between when API Gateway receives a request from a client and when it returns a response to the client. A high value for this metric indicates that either the integration latency is high or API Gateway is taking too long to process the request or response.

Reference:

[What Is Amazon API Gateway? - Amazon API Gateway]

[Amazon API Gateway Metrics and Dimensions - Amazon CloudWatch]

[Troubleshooting API Errors - Amazon API Gateway]

#### NEW QUESTION # 505

A company wants to use AWS AppConfig to gradually deploy a new feature to 15% of users to test the feature before a full deployment.

Which solution will meet this requirement with the LEAST operational overhead?

- A. Create an AWS AppConfig feature flag. Define a variant for the new feature, and create a rule to target 15% of users.
- B. Set up a custom script within the application to randomly select 15% of users. Assign a flag for the new feature to the selected users.
- C. Use AWS AppConfig to create a feature flag without variants. Implement a custom traffic splitting mechanism in the application code.
- D. Create separate AWS AppConfig feature flags for both groups of users. Configure the flags to target 15% of users.

**Answer: A**

Explanation:

Comprehensive Detailed and Lengthy Step-by-Step Explanation with All AWS Developer References:

1. Understanding the Use Case:

The company wants to gradually release a new feature to 15% of users to perform testing. AWS AppConfig is designed to manage

and deploy configurations, including feature flags, allowing controlled rollouts.

## 2. Key AWS AppConfig Features:

- \* Feature Flags: Enable or disable features dynamically without redeploying code.
- \* Variants: Define different configurations for subsets of users.
- \* Targeting Rules: Specify rules for which users receive a particular variant.

## 3. Explanation of the Options:

\* Option A: "Set up a custom script within the application to randomly select 15% of users. Assign a flag for the new feature to the selected users." While possible, this approach requires significant operational effort to manage user selection and ensure randomness. It does not leverage AWS AppConfig's built-in capabilities, which increases overhead.

\* Option B: "Create separate AWS AppConfig feature flags for both groups of users. Configure the flags to target 15% of users." Creating multiple feature flags for different user groups complicates configuration management and does not optimize the use of AWS AppConfig.

\* Option C: "Create an AWS AppConfig feature flag. Define a variant for the new feature, and create a rule to target 15% of users." This is the correct solution. Using AWS AppConfig feature flags with variants and targeting rules is the most efficient approach. It minimizes operational overhead by leveraging AWS AppConfig's built-in targeting and rollout capabilities.

\* Option D: "Use AWS AppConfig to create a feature flag without variants. Implement a custom traffic splitting mechanism in the application code." This approach requires custom implementation within the application code, increasing complexity and operational effort.

## 4. Implementation Steps for Option C:

- \* Set Up AWS AppConfig
- \* Open the AWS Systems Manager Console.
- \* Navigate to AppConfig.
- \* Create a Feature Flag:
- \* Define a new configuration for the feature flag.
- \* Add variants (e.g., "enabled" for the new feature and "disabled" for no change).
- \* Define a Targeting Rule:
- \* Use percentage-based targeting to define a rule that applies the "enabled" variant to 15% of users.
- \* Targeting rules can use attributes like user IDs or geographic locations.
- \* Deploy the Configuration:
- \* Deploy the configuration using a controlled rollout to ensure gradual exposure.

## NEW QUESTION # 506

A company has an online web application that includes a product catalog. The catalog is stored in an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET. The application must be able to list the objects in the S3 bucket and must be able to download objects through an IAM policy.

Which policy allows MINIMUM access to meet these requirements?

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET"
    },
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
    }
  ]
}
```

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET"
    }
  ]
}
```

```
B. {
  "Effect": "Allow",
  "Action": [
    "s3:*"
  ],
  "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
}

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET"
    }
  ],
}
```

```

c. {
  "Effect": "Allow",
  "Action": [
    "s3:GetObject",
    "s3:PutObject",
    "s3:DeleteObject"
  ],
  "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
}
}
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET"
    }
  ],
}

```

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET"
    },
    {
      "Effect": "Deny",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
    }
  ]
}

```

- A. Option D
- B. Option C
- C. Option B
- **D. Option A**

**Answer: D**

#### NEW QUESTION # 507

A developer is preparing to begin development of a new version of an application. The previous version of the application is deployed in a production environment. The developer needs to deploy fixes and updates to the current version during the development of the new version of the application. The code for the new version of the application is stored in AWS CodeCommit. Which solution will meet these requirements?

- **A. From the main branch, create a feature branch for production bug fixes. Create a second feature branch from the main branch for development of the new version.**
- B. From the main branch, create a branch of the code that is currently deployed in production. Apply an IAM policy that ensures no other other users can push or merge to the branch.
- C. Create a Git tag of the code that is currently deployed in production. Create a Git tag for the development of the new version. Push the two tags to the CodeCommit repository.

- D. Create a new CodeCommit repository for development of the new version of the application. Create a Git tag for the development of the new version.

**Answer: A**

Explanation:

- \* A feature branch is a branch that is created from the main branch to work on a specific feature or task. Feature branches allow developers to isolate their work from the main branch and avoid conflicts with other changes. Feature branches can be merged back to the main branch when the feature or task is completed and tested.
- \* In this scenario, the developer needs to maintain two parallel streams of work: one for fixing and updating the current version of the application that is deployed in production, and another for
- \* developing the new version of the application. The developer can use feature branches to achieve this goal.
- \* The developer can create a feature branch from the main branch for production bug fixes. This branch will contain the code that is currently deployed in production, and any fixes or updates that need to be applied to it. The developer can push this branch to the CodeCommit repository and use it to deploy changes to the production environment.
- \* The developer can also create a second feature branch from the main branch for development of the new version of the application. This branch will contain the code that is under development for the new version, and any changes or enhancements that are part of it. The developer can push this branch to the CodeCommit repository and use it to test and deploy the new version of the application in a separate environment.
- \* By using feature branches, the developer can keep the main branch stable and clean, and avoid mixing code from different versions of the application. The developer can also easily switch between branches and merge them when needed.

## NEW QUESTION # 508

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