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AWS Certified Developer - Associate

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QUESTION 1

A developer has an application that is composed of many different AWS Lambda functions. The Lambda functions all use some of the same dependencies. To avoid security issues, the developer is constantly updating the dependencies of all of the Lambda functions. The result is duplicated effort for each function.

How can the developer keep the dependencies of the Lambda functions up to date with the LEAST additional complexity?

- A. Define a maintenance window for the Lambda functions to ensure that the functions get updated copies of the dependencies.
- B. Upgrade the Lambda functions to the most recent runtime version.
- C. Define a Lambda layer that contains all of the shared dependencies.
- D. Use an AWS CodeCommit repository to host the dependencies in a centralized location.

Correct Answer: C

QUESTION 2

A developer is writing unit tests for a new application that will be deployed on AWS. The developer wants to validate all pull requests with unit tests and merge the code with the main branch only when all tests pass.

The developer stores the code in AWS CodeCommit and sets up AWS CodeBuild to run the unit tests. The developer creates an AWS Lambda function to start the CodeBuild task. The developer needs to identify the CodeCommit events in

an Amazon EventBridge event that can invoke the Lambda function when a pull request is created or updated.

Which CodeCommit event will meet these requirements?

- A.

```
{  
  "source": ["aws.codecommit"],  
  "detail": {  
    "event": ["pullRequestMergeStatusUpdated"],  
  }  
}
```
- B.

```
{  
  "source": ["aws.codecommit"],  
  "detail": {  
    "event": ["pullRequestApprovalRuleCreated"]  
  }  
}
```
- C.

```
{  
  "source": ["aws.codecommit"],  
  "detail": {  
    "event": ["pullRequestSourceBranchUpdated", "pullRequestCreated"]  
  }  
}
```
- D.

```
{  
  "source": ["aws.codecommit"],  
  "detail": {  
    "event": ["pullRequestUpdated", "pullRequestSourceBranchCreated"]  
  }  
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 3

A developer needs to troubleshoot an AWS Lambda function in a development environment. The Lambda function is configured in VPC mode and needs to connect to an existing Amazon RDS for SQL Server DB instance. The DB instance is

deployed in a private subnet and accepts connections by using port 1433.

When the developer tests the function, the function reports an error when it tries to connect to the database.

Which combination of steps should the developer take to diagnose this issue? (Choose two.)

- A. Check that the function's security group has outbound access on port 1433 to the DB instance's security group. Check that the DB instance's security group has inbound access on port 1433 from the function's security group.
- B. Check that the function's security group has inbound access on port 1433 from the DB instance's security group. Check that the DB instance's security group has outbound access on port 1433 to the function's security group.
- C. Check that the VPC is set up for a NAT gateway. Check that the DB instance has the public access option turned on.
- D. Check that the function's execution role permissions include `rds:DescribeDBInstances`, `rds:ModifyDBInstance`, and `rds:DescribeDBSecurityGroups` for the DB instance.
- E. Check that the function's execution role permissions include `ec2:CreateNetworkInterface`, `ec2:DescribeNetworkInterfaces`, and `ec2>DeleteNetworkInterface`.

Correct Answer: AC

QUESTION 4

A developer wants to debug an application by searching and filtering log data. The application logs are stored in Amazon CloudWatch Logs. The developer creates a new metric filter to count exceptions in the application logs. However, no results are returned from the logs.

What is the reason that no filtered results are being returned?

- A. A setup of the Amazon CloudWatch interface VPC endpoint is required for filtering the CloudWatch Logs in the VPC.
- B. CloudWatch Logs only publishes metric data for events that happen after the filter is created.
- C. The log group for CloudWatch Logs should be first streamed to Amazon OpenSearch Service before metric filtering returns the results.
- D. Metric data points for logs groups can be filtered only after they are exported to an Amazon S3 bucket.

Correct Answer: B

QUESTION 5

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

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

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