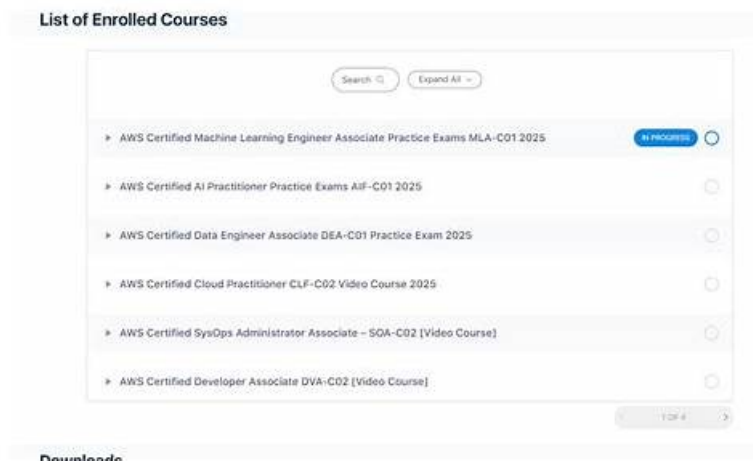# DVA-C02 Exam Labs | DVA-C02 Best Study Material



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## Amazon AWS Certified Developer - Associate Sample Questions (Q430-Q435):

**NEW QUESTION # 430**
A developer is building an application on AWS. The application has an Amazon API Gateway API that sends requests to an AWS Lambda function. The API is experiencing increased latency because the Lambda function has limited available CPU to fulfill the requests.
Before the developer deploys the API into production, the developer must configure the Lambda function to have more CPU.
Which solution will meet this requirement?

- A. Increase the virtual CPU (vCPU) cores quota of the Lambda function.
- B. Increase the amount of memory that is allocated to the Lambda function.
- C. Increase the ephemeral storage size of the Lambda function.
- D. Increase the timeout value of the Lambda function.

**Answer: B**

**NEW QUESTION # 431**

A developer is creating an AWS CloudFormation template to deploy Amazon EC2 instances across multiple AWS accounts. The developer must choose the EC2 instances from a list of approved instance types.
How can the developer incorporate the list of approved instance types in the CloudFormation template?

- A. In the CloudFormation template, create a separate parameter for each EC2 instance type in the list.
- B. In the Resources section of the CloudFormation template, create resources for each EC2 instance type in the list.
- C. Create a separate CloudFormation template for each EC2 instance type in the list.
- D. In the CloudFormation template, create a parameter with the list of EC2 instance types as AllowedValues.

**Answer: D**

Explanation:

https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/parameters-section- structure.html Parameters:
InstanceTypeParameter:
Type: String
Default: t2.micro
AllowedValues:
- t2.micro
- m1.small
- m1.large
Description: Enter t2.micro, m1.small, or m1.large. Default is t2.micro.

**NEW QUESTION # 432**

An application is processing clickstream data using Amazon Kinesis. The clickstream data feed into Kinesis experiences periodic spikes. The PutRecords API call occasionally fails and the logs show that the failed call returns the response shown below:

```
{
    "FailedRecordCount": 1,
    "Records": [
        {
            "SequenceNumber": "21269319989900637946712965403778482371",
            "ShardId": "shardId-000000000001"
        },
        {
            "ErrorCode":"ProvisionedThroughputExceededException",
            "ErrorMessage": "Rate exceeded for shard shardId-000000000001 in

                    stream exampleStreamName under account 123456789."
        },
        {
            "SequenceNumber": "21269319989999637946712965403778482985",
            "ShardId": "shardId-000000000002"
        }
    ]
}
```

Which techniques will help mitigate this exception? (Choose two.)

- A. Reduce the frequency and/or size of the requests.
- B. Use Amazon SNS instead of Kinesis.
- C. Use a PutRecord API instead of PutRecords.
- D. Implement retries with exponential backoff.
- E. Reduce the number of KCL consumers.

**Answer: A,D**

Explanation:

The response from the API call indicates that the ProvisionedThroughputExceededException exception has occurred. This exception means that the rate of incoming requests exceeds the throughput limit for one or more shards in a stream. To mitigate this exception, the developer can use one or more of the following techniques:

* Implement retries with exponential backoff. This will introduce randomness in the retry intervals and avoid overwhelming the shards with retries.
* Reduce the frequency and/or size of the requests. This will reduce the load on the shards and avoid throttling errors.
* Increase the number of shards in the stream. This will increase the throughput capacity of the stream and accommodate higher request rates.
* Use a PutRecord API instead of PutRecords. This will reduce the number of records per request and avoid exceeding the payload limit.

References:

* [ProvisionedThroughputExceededException - Amazon Kinesis Data Streams Service API Reference]
* [Best Practices for Handling Kinesis Data Streams Errors]

## NEW QUESTION # 433

A developer is using AWS CodeDeploy to deploy an application running on Amazon EC2. The developer wants to change the file permissions for a specific deployment file.
Which lifecycle event should a developer use to meet this requirement?

- A. BeforeInstall
- B. ValidateService
- C. DownloadBundle
- D. AfterInstall

**Answer: D**

Explanation:

You can use the AfterInstall deployment lifecycle event for tasks such as configuring your application or changing file permissions. https://aws.amazon.com/codedeploy/faqs/

## NEW QUESTION # 434

An AWS Lambda function requires read access to an Amazon S3 bucket and requires read/write access to an Amazon DynamoDB table The correct 1AM policy already exists What is the MOST secure way to grant the Lambda function access to the S3 bucket and the DynamoDB table?

- A. Add the AWS account root user access key ID and secret access key as encrypted environment variables in the Lambda function
- B. Attach the existing 1AM policy to the Lambda function.
- C. Create an 1AM user with programmatic access Attach the existing 1AM policy to the user. Add the user access key ID and secret access key as environment variables in the Lambda function.
- D. Create an 1AM role for the Lambda function Attach the existing 1AM policy to the role Attach the role to the Lambda function

**Answer: D**

Explanation:

* Principle of Least Privilege: Granting specific permissions through an IAM role is more secure than directly attaching policies to a function or using root user credentials.
* IAM Roles for Lambda: Designed to provide temporary credentials to Lambda functions, enhancing security.
* Reusability: The existing IAM policy ensures the correct S3 and DynamoDB access is granted.
References:
* IAM Roles for Lambda Documentation: https://docs.aws.amazon.com/lambda/latest/dg/lambda-intro- execution-role.html
* IAM Best Practices: https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html

## NEW QUESTION # 435

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