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The DVA-C02 Exam is an associate-level certification, which means that candidates should have a good understanding of AWS services and be able to demonstrate their knowledge of AWS best practices. DVA-C02 exam covers a wide range of topics, including AWS core services, security, and deployment. It also covers topics such as how to design and develop scalable AWS applications, how to troubleshoot issues, and how to optimize application performance.

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## DVA-C02 Instant Access & Dumps DVA-C02 Vce

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Amazon DVA-C02 exam is intended for individuals who have a minimum of one year of experience in developing and maintaining applications on AWS. DVA-C02 exam covers a wide range of topics, including AWS core services, AWS security, AWS deployment and management, AWS databases, AWS developer tools, and AWS cost optimization. DVA-C02 exam is also designed to test the candidate's ability to use AWS services to meet specific business requirements and to troubleshoot and debug issues with AWS applications.

The AWS Certified Developer - Associate exam is the second level of certification in the AWS Developer track. It is intended for individuals who have a minimum of one year of hands-on experience developing and maintaining AWS-based applications. DVA-C02 Exam is focused on testing the candidate's knowledge of AWS core services and their ability to develop and deploy scalable, highly available, and fault-tolerant applications on the AWS platform.

## Amazon AWS Certified Developer - Associate Sample Questions (Q422-Q427):

### NEW QUESTION # 422

A company has an AWS Step Functions state machine named myStateMachine.

The company configured a service role for Step Functions. The developer must ensure that only the myStateMachine state machine can assume the service role.

- A. "Condition": { "ArnLike": { "aws

```
":arn:aws:states:ap-south-1:*:stateMachine
"} }
```

- **B. "Condition": { "ArnLike": { "aws": "arn:aws:states:ap-south-1:111111111111:stateMachine" } }**

**Answer: B**

Explanation:

Comprehensive Detailed Step by Step Explanation with All AWS Developer Reference:

To ensure that only a specific AWS Step Functions state machine (myStateMachine) can assume the service role, you must configure the correct trust policy in AWS IAM.

Trust Policies: Trust policies determine which entities (services or users) are allowed to assume the role. In this case, we want to restrict the trust policy to only allow the specific state machine (myStateMachine) to assume the role.

Using ArnLike: The condition "ArnLike" is used to specify that the SourceArn (which refers to the ARN of the entity assuming the role) must match a specific ARN. Option A specifies the exact ARN of the myStateMachine state machine, ensuring that only this state machine can assume the role.

Option B: This option is incorrect because it uses a wildcard (\*) for the account ID, which would allow any state machine in the ap-south-1 region to assume the role, not just the specific one.

Reference:

AWS Step Functions IAM Policies

### NEW QUESTION # 423

A developer is using an AWS Lambda function to generate avatars for profile pictures that are uploaded to an Amazon S3 bucket.

The Lambda function is automatically invoked for profile pictures that are saved under the

/original/ S3 prefix. The developer notices that some pictures cause the Lambda function to time out. The developer wants to implement a fallback mechanism by using another Lambda function that resizes the profile picture.

Which solution will meet these requirements with the LEAST development effort?

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic. Set the SNS topic as a destination with an on failure condition for the avatar generator Lambda function. Subscribe the image resize Lambda function to the SNS topic.
- B. Create an AWS Step Functions state machine that invokes the avatar generator Lambda function and uses the image resize Lambda function as a fallback. Create an Amazon EventBridge rule that matches events from the S3 bucket to invoke the state machine.
- **C. Set the image resize Lambda function as a destination of the avatar generator Lambda function for the events that fail processing.**
- D. Create an Amazon Simple Queue Service (Amazon SQS) queue. Set the SQS queue as a destination with an on failure condition for the avatar generator Lambda function. Configure the image resize Lambda function to poll from the SQS queue.

**Answer: C**

Explanation:

The solution that will meet the requirements with the least development effort is to set the image resize Lambda function as a destination of the avatar generator Lambda function for the events that fail processing.

This way, the fallback mechanism is automatically triggered by the Lambda service without requiring any additional components or configuration. The other options involve creating and managing additional resources such as queues, topics, state machines, or rules, which would increase the complexity and cost of the solution.

### NEW QUESTION # 424

A developer is creating an AWS Lambda function that consumes messages from an Amazon Simple Queue Service (Amazon SQS) standard queue. The developer notices that the Lambda function processes some messages multiple times.

How should developer resolve this issue MOST cost-effectively?

- A. Set up a dead-letter queue.
- **B. Change the Amazon SQS standard queue to an Amazon SQS FIFO queue by using the Amazon SQS message deduplication ID.**
- C. Set the maximum concurrency limit of the AWS Lambda function to 1.
- D. Change the message processing to use Amazon Kinesis Data Streams instead of Amazon SQS.

**Answer: B**

#### NEW QUESTION # 425

A company has on-premises data centers that run an image processing service. The service consists of containerized applications that run on Kubernetes clusters. All the applications have access to the same NFS share for files and data storage. The company is running out of NFS capacity in the data centers and needs to migrate to AWS as soon as possible. The Kubernetes clusters must be highly available on AWS.

Which combination of actions will meet these requirements? (Choose two.)

- **A. Transfer the information that is in the NFS share to an Amazon Elastic File System (Amazon EFS) volume. Upload the container images to Amazon Elastic Container Registry (Amazon ECR).**
- B. Create an Amazon Elastic Kubernetes Service (Amazon EKS) cluster to run the applications. Configure each node of the cluster to mount the Amazon Elastic Block Store (Amazon EBS) volume at the required path for the container images.
- C. Create an Amazon Elastic Container Service (Amazon ECS) cluster to run the applications. Configure each node of the cluster to mount the Amazon Elastic Block Store (Amazon EBS) volume at the required path for the container images.
- D. Transfer the information that is in the NFS share to an Amazon Elastic Block Store (Amazon EBS) volume. Upload the container images to Amazon Elastic Container Registry (Amazon ECR).
- **E. Create an Amazon Elastic Kubernetes Service (Amazon EKS) cluster to run the applications. Configure each node of the cluster to mount the Amazon Elastic File System (Amazon EFS) volume at the required path for the container images.**

**Answer: A,E**

Explanation:

<https://docs.aws.amazon.com/efs/latest/ug/efs-onpremises.html>

#### NEW QUESTION # 426

A developer is creating a database of products. Queries for frequently accessed products must have retrieval times of microseconds. To ensure data consistency, the application cache must be updated whenever products are added, changed, or deleted.

Which solution will meet these requirements?

- A. Setup an Amazon DynamoDB database that has an in-memory cache. Implement a lazy loading caching strategy in the application.
- B. Set up an Amazon RDS database and an Amazon DynamoDB Accelerator (DAX) cluster. Specify a TTL setting for the DAX cluster.
- **C. Set up an Amazon DynamoDB database and a DynamoDB Accelerator (DAX) cluster.**
- D. Set up an Amazon RDS database and an Amazon ElastiCache for Redis cluster. Implement a lazy loading caching strategy with ElastiCache.

**Answer: C**

#### NEW QUESTION # 427

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