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Amazon DVA-C02 certification is valuable for developers, solutions architects, and system administrators who want to demonstrate their expertise in developing and deploying applications on AWS. AWS Certified Developer - Associate certification is recognized globally and can help professionals advance their careers and increase their earning potential. Certified professionals are also eligible for the AWS Certified Solutions Architect – Associate and AWS Certified DevOps Engineer – Professional certifications.

Amazon DVA-C02 certification is a valuable credential for developers who want to demonstrate their expertise in developing and maintaining cloud-based applications on the AWS platform. With its comprehensive coverage of AWS services and best practices, the certification exam provides a way for developers to showcase their skills and knowledge, and to differentiate themselves in a competitive job market.

To prepare for the DVA-C02 Exam, candidates should have experience in developing applications using AWS services and technologies. They should be familiar with AWS SDKs, APIs, and command-line tools and have hands-on experience with AWS services such as Amazon EC2, Amazon S3, Amazon RDS, and Amazon SQS. Candidates can also benefit from taking AWS training courses, reading AWS documentation, and practicing with AWS services in a sandbox environment.

Amazon AWS Certified Developer - Associate Sample Questions (Q176-Q181):

NEW QUESTION # 176

An application that runs on AWS receives messages from an Amazon Simple Queue Service (Amazon SQS) queue and processes the messages in batches. The application sends the data to another SQS queue to be consumed by another legacy application. The legacy system can take up to 5 minutes to process some transaction data.

A developer wants to ensure that there are no out-of-order updates in the legacy system. The developer cannot alter the behavior of the legacy system.

Which solution will meet these requirements?

- A. Use an SQS standard queue with a `SendMessageBatchRequestEntry` data type. Configure the visibility timeout value.
- **B. Use an SQS FIFO queue. Configure the visibility timeout value.**
- C. Use an SQS FIFO queue. Configure the `DelaySeconds` value.
- D. Use an SQS standard queue with a `SendMessageBatchRequestEntry` data type. Configure the `DelaySeconds` values.

Answer: B

Explanation:

An SQS FIFO queue is a type of queue that preserves the order of messages and ensures that each message is delivered and processed only once¹. This is suitable for the scenario where the developer wants to ensure that there are no out-of-order updates in the legacy system.

The visibility timeout value is the amount of time that a message is invisible in the queue after a consumer receives it². This prevents other consumers from processing the same message simultaneously. If the consumer does not delete the message before the visibility timeout expires, the message becomes visible again and another consumer can receive it².

In this scenario, the developer needs to configure the visibility timeout value to be longer than the maximum processing time of the legacy system, which is 5 minutes. This will ensure that the message remains invisible in the queue until the legacy system finishes processing it and deletes it. This will prevent duplicate or out-of-order processing of messages by the legacy system.

NEW QUESTION # 177

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

Answer: C

Explanation:

<https://aws.amazon.com/blogs/devops/automated-code-review-on-pull-requests-using-aws-codecommit-and-aws-codebuild/>

NEW QUESTION # 178

A company has a front-end application that runs on four Amazon EC2 instances behind an Elastic Load Balancer (ELB) in a production environment that is provisioned by AWS Elastic Beanstalk.

A developer needs to deploy and test new application code while updating the Elastic Beanstalk platform from the current version to a newer version of Node.js. The solution must result in zero downtime for the application.

Which solution meets these requirements?

- A. Deploy the new application code in an all-at-once deployment to the existing EC2 instances. Test the code. Redeploy the previous code if verification fails.
- B. Perform an immutable update to deploy the new application code to new EC2 instances. Serve traffic to the new instances after they pass health checks.
- C. Clone the production environment to a different platform version. Deploy the new application code, and test it. Swap the environment URLs upon verification.
- D. Use a rolling deployment for the new application code. Apply the code to a subset of EC2 instances until the tests pass. Redeploy the previous code if the tests fail.

Answer: C

Explanation:

A developer also needs to update to a new platform version and it's more likely a new major version of node.js. To update to the

new major version there is only one method and it is a blue/green deployment by creating (cloning) a new environment with the latest platform version.

Then deploy a new app version to it. Test it, then swap the env URL without downtime.

Not C: While an immutable update can ensure zero downtime during the deployment process, it doesn't account for updating the Elastic Beanstalk platform version.

NEW QUESTION # 179

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. Save the latest request in AWS Systems Manager Parameter Store. Modify the Lambda function to take the latest request response from Parameter Store.
- C. Save the latest request response in Lambda /tmp directory. Update the Lambda function to check the /tmp directory.
- D. Override the cache method in the selected stage of API Gateway. Select the POST method.

Answer: A

Explanation:

This solution will meet the requirements by using Amazon CloudFront, which is a content delivery network (CDN) service that speeds up the delivery of web content and APIs to end users. The developer can configure the CloudFront cache, which is a set of edge locations that store copies of popular or recently accessed content close to the viewers. The developer can also update the application to return cached content based upon the default request headers, which are a set of HTTP headers that CloudFront automatically forwards to the origin server and uses to determine whether an object in an edge location is still valid. By caching the POST requests, the developer can optimize the API resources and reduce the latency for repeated queries. Option B is not optimal because it will override the cache method in the selected stage of API Gateway, which is not possible or effective as API Gateway does not support caching for POST methods by default. Option C is not optimal because it will save the latest request response in Lambda /tmp directory, which is a local storage space that is available for each Lambda function invocation, not a cache that can be shared across multiple invocations or requests. Option D is not optimal because it will save the latest request in AWS Systems Manager Parameter Store, which is a service that provides secure and scalable storage for configuration data and secrets, not a cache for API responses.

NEW QUESTION # 180

A company is using an AWS Lambda function to process records from an Amazon Kinesis data stream. The company recently observed slow processing of the records. A developer notices that the iterator age metric for the function is increasing and that the Lambda run duration is constantly above normal.

Which actions should the developer take to increase the processing speed? (Choose two.)

- **A. Increase the memory that is allocated to the Lambda function.**
- B. Decrease the timeout of the Lambda function.
- **C. Increase the number of shards of the Kinesis data stream.**
- D. Increase the timeout of the Lambda function.
- E. Decrease the number of shards of the Kinesis data stream.

Answer: A,C

Explanation:

Increasing the number of shards of the Kinesis data stream will increase the throughput and parallelism of the data processing. Increasing the memory that is allocated to the Lambda function will also increase the CPU and network performance of the function, which will reduce the run duration and improve the processing speed. Option B is not correct because decreasing the timeout of the Lambda function will not affect the processing speed, but may cause some records to fail if they exceed the timeout limit. Option D is not correct because decreasing the number of shards of the Kinesis data stream will decrease the throughput and parallelism of the data processing, which will slow down the processing speed. Option E is not correct because increasing the timeout of the Lambda function will not affect the processing speed, but may increase the cost of running the function.

NEW QUESTION # 181

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