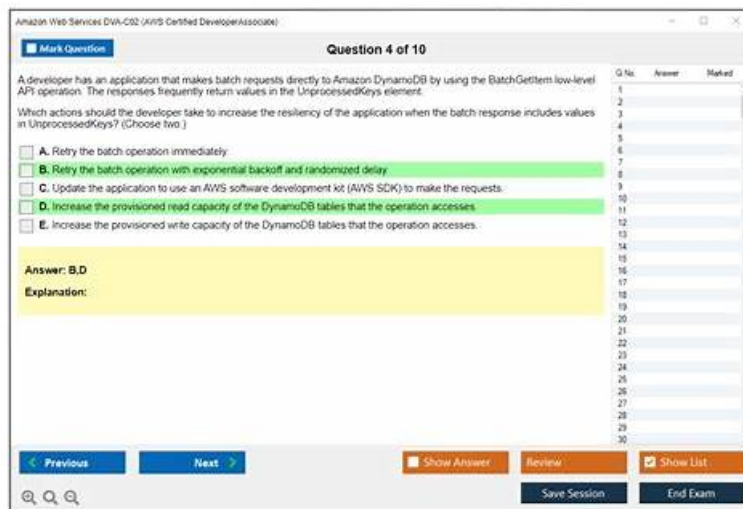


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## Amazon AWS Certified Developer - Associate Sample Questions (Q497-Q502):

### NEW QUESTION # 497

A developer has a legacy application that is hosted on-premises. Other applications hosted on AWS depend on the on-premises application for proper functioning. In case of any application errors, the developer wants to be able to use Amazon CloudWatch to monitor and troubleshoot all applications from one place.

How can the developer accomplish this?

- A. Upload log files from the on-premises server to Amazon S3 and have CloudWatch read the files.
- B. Download the CloudWatch agent to the on-premises server. Configure the agent to use IAM user credentials with permissions for CloudWatch.
- C. Upload log files from the on-premises server to an Amazon EC2 instance and have the instance forward the logs to CloudWatch.
- D. Install an AWS SDK on the on-premises server to automatically send logs to CloudWatch.

**Answer: B**

Explanation:

Amazon CloudWatch is a service that monitors AWS resources and applications. The developer can use CloudWatch to monitor and troubleshoot all applications from one place. To do so, the developer needs to download the CloudWatch agent to the on-premises server and configure the agent to use IAM user credentials with permissions for CloudWatch. The agent will collect logs and metrics from the on-premises server and send them to CloudWatch.

Reference:

[What Is Amazon CloudWatch? - Amazon CloudWatch]

[Installing and Configuring the CloudWatch Agent - Amazon CloudWatch]

### NEW QUESTION # 498

A developer needs to give a new application the ability to retrieve configuration data.

The application must be able to retrieve new configuration data values without the need to redeploy the application code. If the application becomes unhealthy because of a bad configuration change, the developer must be able to automatically revert the configuration change to the previous value.

- A. Use AWS Secrets Manager to manage and store the configuration data. Integrate Secrets Manager with a custom AWS Config rule. Attach a custom AWS Systems Manager document to the rule that automatically rolls back any bad configuration changes.
- B. Use AWS Secrets Manager to manage and store the configuration data. Integrate Secrets Manager with a custom AWS Config rule that has remediation actions to track changes in the application and to roll back any bad configuration changes.
- **C. Use AWS AppConfig to manage and store the configuration data. Integrate AWS AppConfig with Amazon CloudWatch to monitor changes to the application. Set up CloudWatch Application Signals to roll back any bad configuration changes.**
- D. Use AWS AppConfig to manage and store the configuration data. Integrate AWS AppConfig with Amazon CloudWatch to monitor changes to the application. Set up an alarm to automatically roll back any bad configuration changes.

**Answer: C**

Explanation:

Comprehensive and Detailed Step-by-Step

Option D: AWS AppConfig with CloudWatch Application Signals

AWS AppConfig is designed for managing and deploying application configurations dynamically, without redeployment.

CloudWatch Application Signals provide automatic rollback mechanisms in case of an unhealthy application state due to bad configuration changes.

This solution meets the requirements with minimal operational overhead by ensuring both dynamic updates and rollback functionality.

Why Other Options Are Incorrect:

Option A and B: AWS Secrets Manager is designed for secrets management, not dynamic application configuration. Custom Config rules add unnecessary complexity.

Option C: While CloudWatch alarms can monitor application changes, using alarms for rollback requires manual setup and lacks the automatic rollback provided by Application Signals.

Reference:

AWS AppConfig Documentation

### NEW QUESTION # 499

A developer is writing an application that will process data delivered into an Amazon S3 bucket. The data is delivered approximately 10 times a day, and the developer expects the data will be processed in less than 1 minute, on average. How can the developer deploy and invoke the application with the lowest cost and lowest latency?

- A. Deploy the application as an AWS Lambda function and invoke it with an Amazon CloudWatch alarm triggered by an S3 object upload.
- B. Deploy the application as an AWS Lambda function and invoke it with an Amazon CloudWatch scheduled event.
- **C. Deploy the application as an AWS Lambda function and invoke it with an S3 event notification.**
- D. Deploy the application onto an Amazon EC2 instance and have it poll the S3 bucket for new objects.

**Answer: C**

Explanation:

S3 Event Notifications provide the lowest latency because the Lambda function is triggered immediately upon the object's creation.

Because the application runs only 10 times a day for about 1 minute per run, AWS Lambda is significantly cheaper than an EC2 instance, which would incur costs even when idle. Scheduled events (Option C) would introduce latency because the function might not run immediately when data arrives.

#### NEW QUESTION # 500

A company wants to share information with a third party. The third party has an HTTP API endpoint that the company can use to share the information. The company has the required API key to access the HTTP API.

The company needs a way to manage the API key by using code. The integration of the API key with the application code cannot affect application performance.

Which solution will meet these requirements MOST securely?

- A. Store the API credentials in AWS Secrets Manager. Retrieve the API credentials at runtime by using the AWS SDK. Use the credentials to make the API call.
- B. Store the API credentials as an object in a private Amazon S3 bucket. Restrict access to the S3 object by using IAM policies. Retrieve the API credentials at runtime by using the AWS SDK. Use the credentials to make the API call.
- C. Store the API credentials in an Amazon DynamoDB table. Restrict access to the table by using resource-based policies. Retrieve the API credentials at runtime by using the AWS SDK. Use the credentials to make the API call.
- **D. Store the API credentials in a local code variable. Push the code to a secure Git repository. Use the local code variable at runtime to make the API call.**

**Answer: D**

#### NEW QUESTION # 501

A developer is working on an ecommerce website. The developer wants to review server logs without logging in to each of the application servers individually. The website runs on multiple Amazon EC2 instances, is written in Python, and needs to be highly available. How can the developer update the application to meet these requirements with MINIMUM changes?

- A. Scale down the application to one larger EC2 instance where only one instance is recording logs.
- **B. Install the unified Amazon CloudWatch agent on the EC2 instances. Configure the agent to push the application logs to CloudWatch.**
- C. Set up centralized logging by using Amazon OpenSearch Service, Logstash, and OpenSearch Dashboards.
- D. Rewrite the application to be cloud native and to run on AWS Lambda, where the logs can be reviewed in Amazon CloudWatch.

**Answer: B**

Explanation:

Centralized Logging Benefits: Centralized logging is essential for operational visibility in scalable systems, especially those using multiple EC2 instances like our e-commerce website. CloudWatch provides this capability, along with other monitoring features.

CloudWatch Agent: This is the best way to send custom application logs from EC2 instances to CloudWatch. Here's the process:

Install the CloudWatch agent on each EC2 instance.

Configure the agent with a configuration file, specifying:

Which log files to collect.

The format in which to send logs to CloudWatch (e.g., JSON).

The specific CloudWatch Logs log group and log stream for these logs.

Viewing and Analyzing Logs: Once the agent is pushing logs, use the CloudWatch Logs console or API:

View and search the logs across all instances.

Set up alarms based on log events.

Use CloudWatch Logs Insights for sophisticated queries and analysis.

Reference:

Amazon CloudWatch Logs: <https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/WhatIsCloudWatchLogs.html> Unified

CloudWatch Agent: <https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/AgentReference.html> CloudWatch Logs Insights:

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/AnalyzingLogData.html>

#### NEW QUESTION # 502

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