Amazon S3 Buckets:  
  
Creating two S3 buckets serves different purposes in the context of AWS CodePipeline and CodeBuild. Let's break down why you might need two buckets:

**1. Primary Bucket for Artifacts (AWS-Automation\_Framework)**

This bucket is typically used to store the source code and any other artifacts that are part of your CI/CD pipeline. This bucket acts as the primary storage for your pipeline's input and output artifacts.

* **Purpose**:
  + Stores the source code from your GitHub repository.
  + Stores intermediate build artifacts generated during the build process.
  + Acts as a central location for all pipeline-related files.

**2. Secondary Bucket for Test Artifacts (new-playwright-automation-test-artifacts)**

This bucket is used specifically for storing artifacts related to your testing process. This can include test reports, logs, and any other files generated during the testing phase of your pipeline.

* **Purpose**:
  + Stores test reports and logs generated by CodeBuild.
  + Keeps test-related artifacts separate from the main pipeline artifacts.
  + Helps in organizing and managing different types of artifacts more efficiently.

**Why Two Buckets?**

1. **Separation of Concerns**:
   * Keeping artifacts related to the main pipeline and test artifacts in separate buckets helps in maintaining a clear separation of concerns. This makes it easier to manage and access specific types of artifacts.
2. **Security and Access Control**:
   * You can apply different IAM policies and access controls to each bucket. For example, you might want to restrict access to test artifacts more tightly compared to the main pipeline artifacts.
3. **Lifecycle Management**:
   * You can set up different lifecycle policies for each bucket. For instance, you might want to keep test artifacts for a shorter period compared to the main pipeline artifacts.
4. **Organization and Clarity**:
   * Having separate buckets makes it easier to organize and locate specific artifacts. This can be particularly useful in larger projects with multiple stages and types of artifacts.

**Creating the Buckets**

If you decide to use two buckets, you can create them using the AWS CLI as follows:

bashCopy

aws s3 mb s3://AWS-Automation\_Framework

aws s3 mb s3://new-playwright-automation-test-artifacts