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**DevSecOps: Integrating Security in   
DevOps Practices**

**Submitted by: Submitted to:**

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Batch 2 DevOps

**Lab Exercise 5–Provisioning an S3 Bucket on AWS**

**Exercise Steps:**

**Step 1: Create a New Directory:**

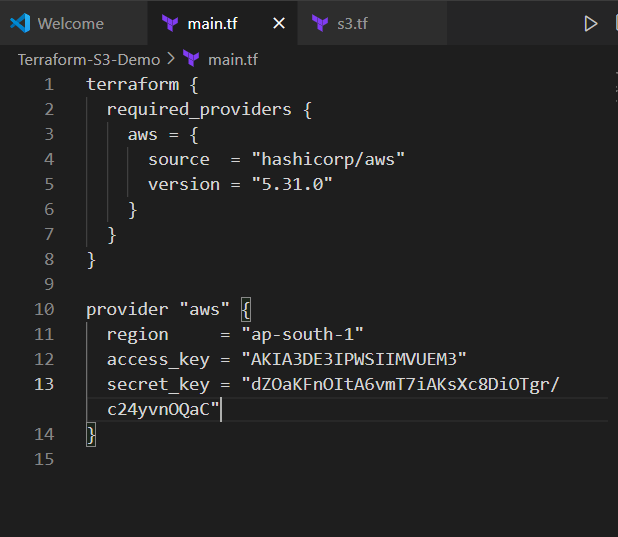
Create a new directory to store your Terraform configuration:

mkdir Terraform-S3-Demo

cd Terraform-S3-Demo

**Step 2: Create the Terraform Configuration File (main.tf):**

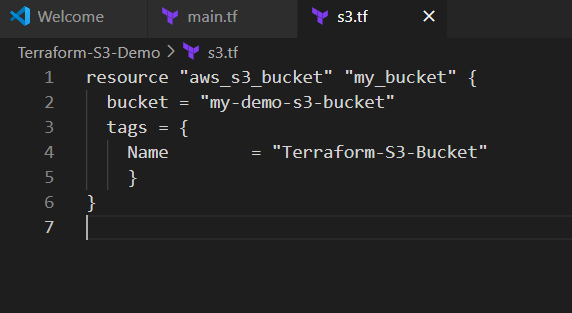
Create a file named main.tf with the following content:



This file sets up the Terraform AWS provider.

**Step 3: Create a Terraform Configuration File for the S3 Bucket (s3.tf):**

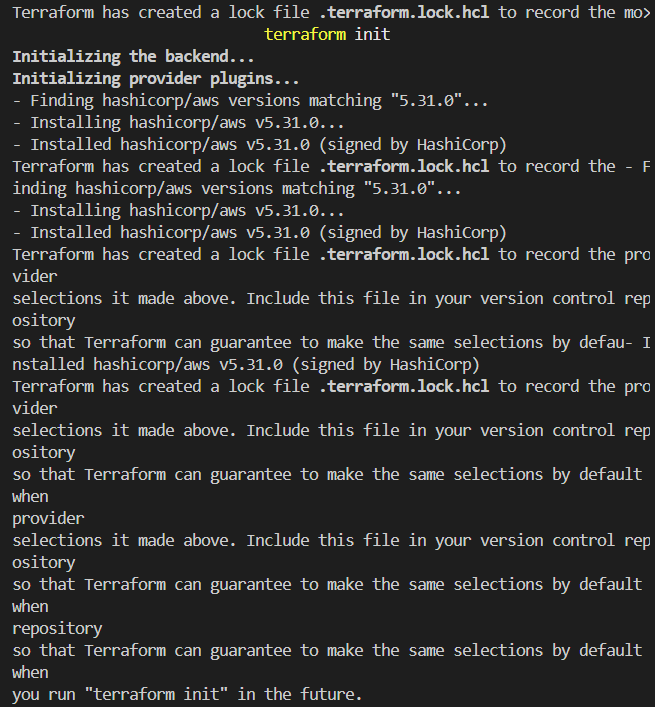
Create another file named s3.tf with the following content:



This file provisions an S3 bucket with a unique name using a random string suffix.

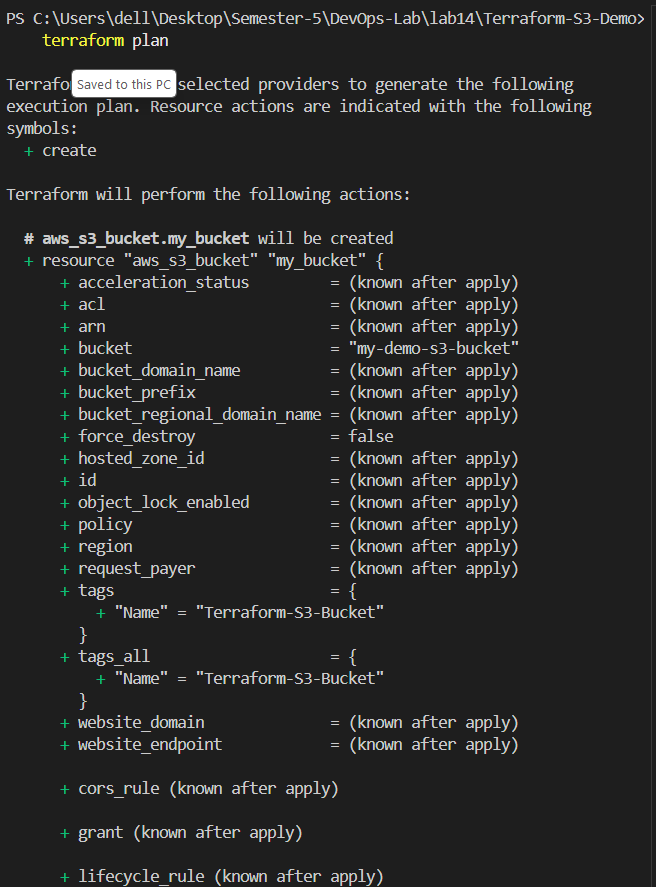
**Step 4: Initialize Terraform:**

Run the following command to initialize your Terraform working directory:



**Step 5: Review the Plan:**

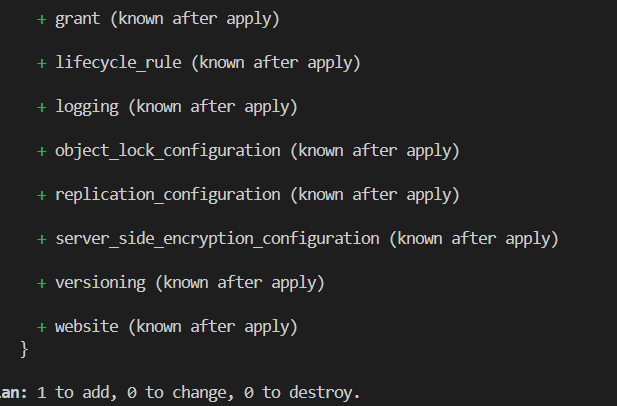
Preview the changes Terraform will make:



Review the output to ensure it meets your expectations.

**Step 6: Apply the Changes:**

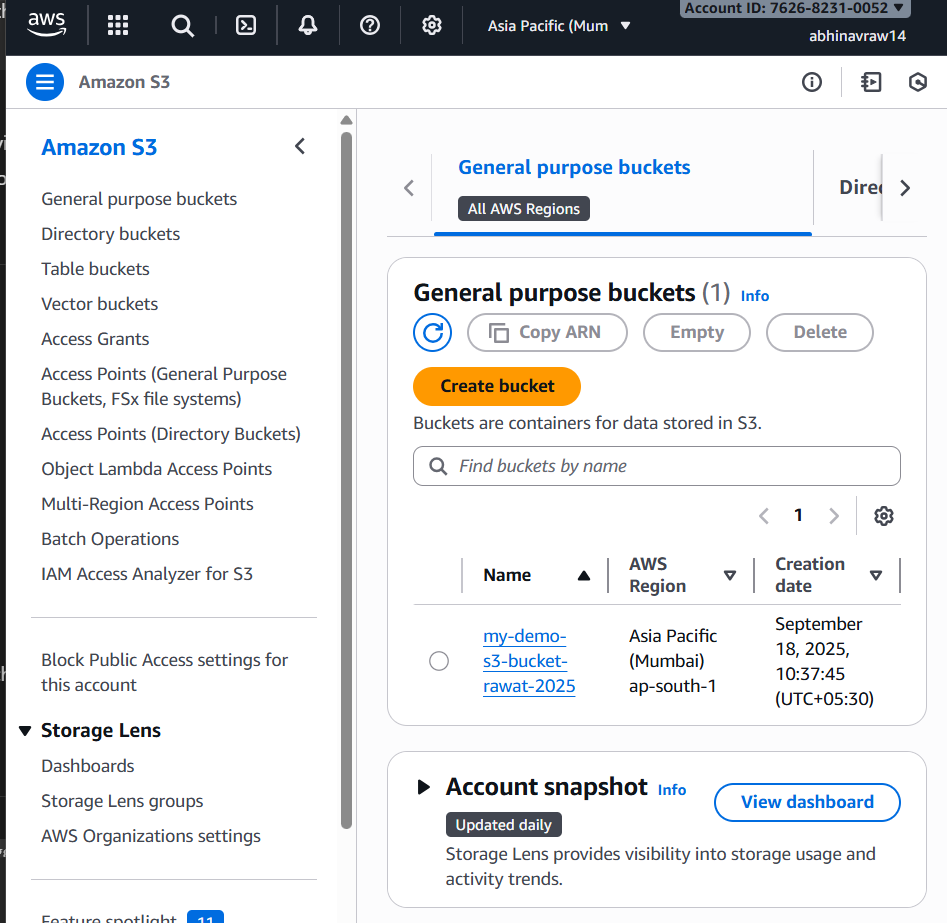
Create the resources:



When prompted, type yes to confirm.

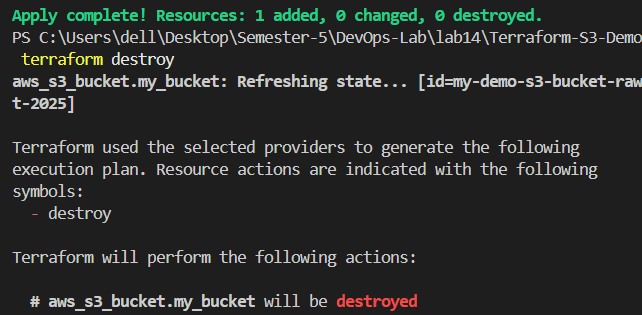
**Step 7: Verify Resources:**

1. Log in to your AWS Management Console.
2. Navigate to the **S3** dashboard.
3. Verify that the S3 bucket has been created with the specified configuration.



**Step 8: Cleanup Resources:**

To remove the resources created, run the following command:



When prompted, type yes to confirm.