**Project Title: Custom Metrics Monitoring with CloudWatch - Auto Termination of ec2 instance**

Project Overview:

This project demonstrates the creation of an Amazon EC2 instance on AWS, with a focus on custom metric monitoring using CloudWatch. The primary metric being monitored is CPU utilization, and an automated termination process is configured to trigger when CPU utilization falls below a specified threshold over a defined duration.

STEPS:

**EC2 Instance Creation:**

Use AWS Management Console to create an EC2 instance.

Configure instance type, networking, security groups, and relevant settings.

**CloudWatch Alarm Setup:**

In the CloudWatch service, create a custom alarm.

Set the threshold to 3% CPU utilization over a 15-minute period.

**Automated Termination Action:**

Configure actions for the alarm to automatically terminate the EC2 instance when triggered.

Select the action: "Terminate this instance."

**Testing with EC2 Connect:**

Use ec2 connect or other methods to access the EC2 instance.

Execute commands to simulate CPU utilization and trigger the CloudWatch alarm.

**Monitoring and Visualization:**

Regularly check the CloudWatch dashboard.

Observe CPU utilization metrics plotted over time to ensure the configured alarm triggers as expected.