Lesson 09 Demo 01

Automating EC2 Instance Shutdown with CloudWatch Alarm

Objective: To create a CloudWatch alarm to automatically stop an instance based on CPU utilization

Tools required: AWS Management Console

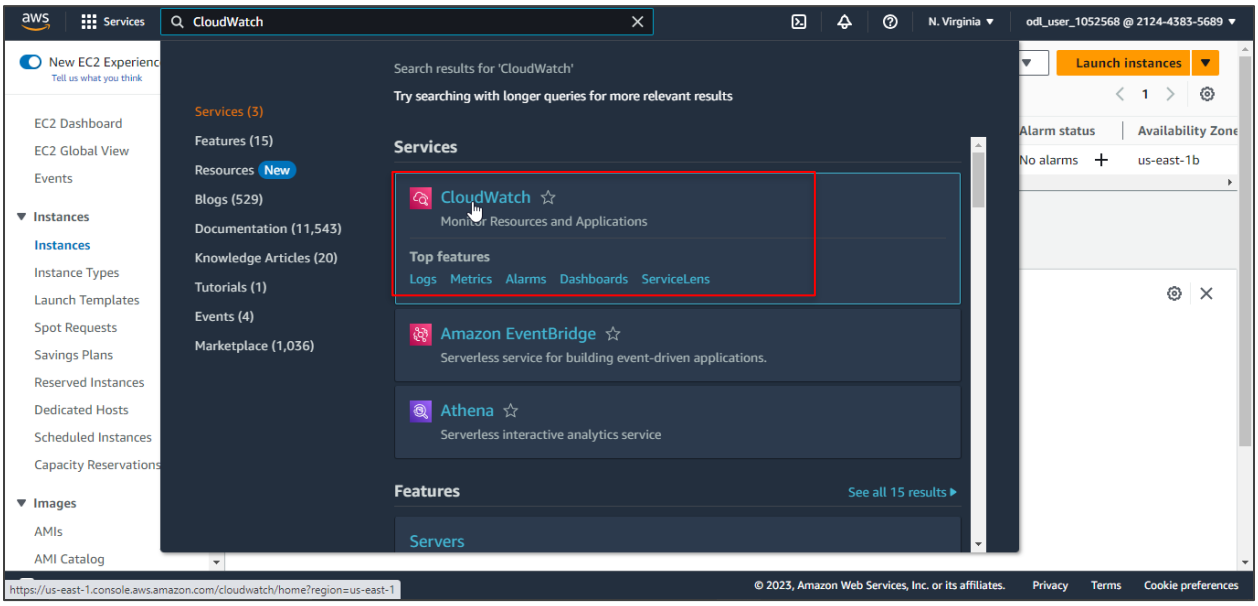
Prerequisites: An active EC2 instance

Steps to be followed:

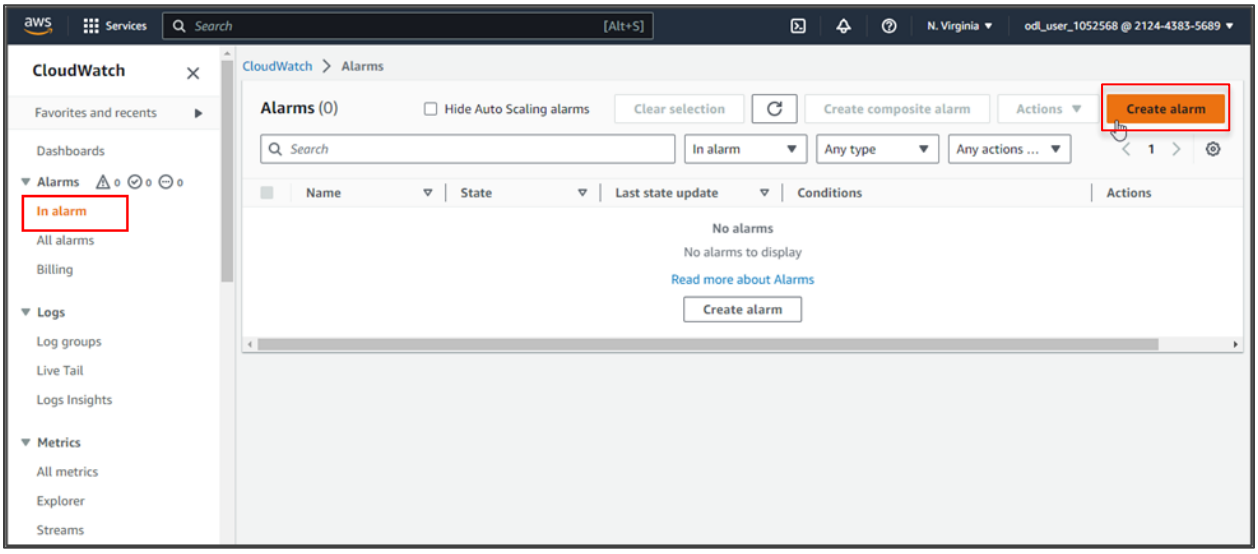
1. Create a CloudWatch alarm

Step 1: Create a CloudWatch alarm

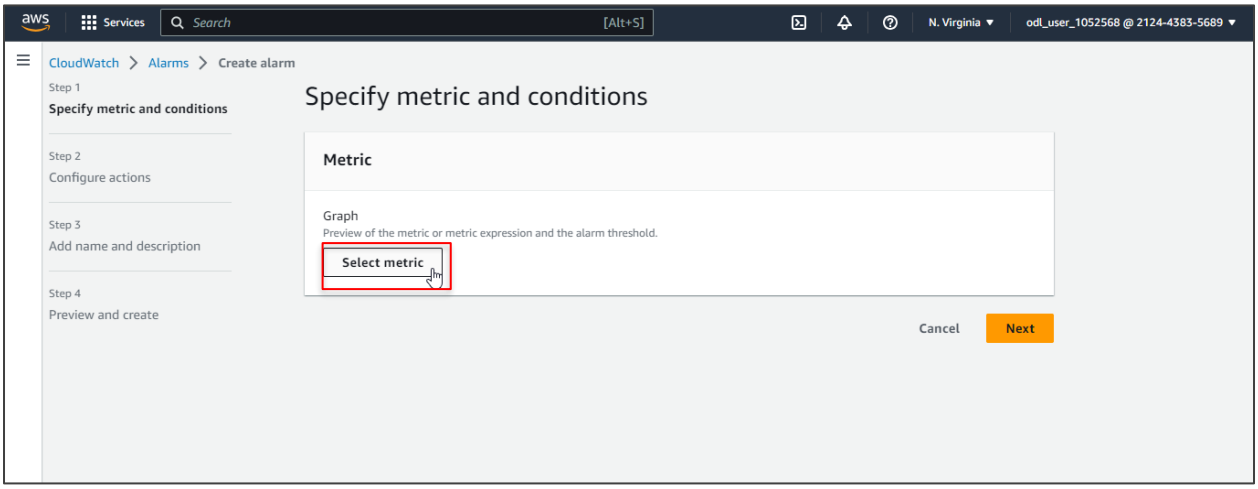
1.1 Open the AWS Management Console, search for and click the **CloudWatch** service



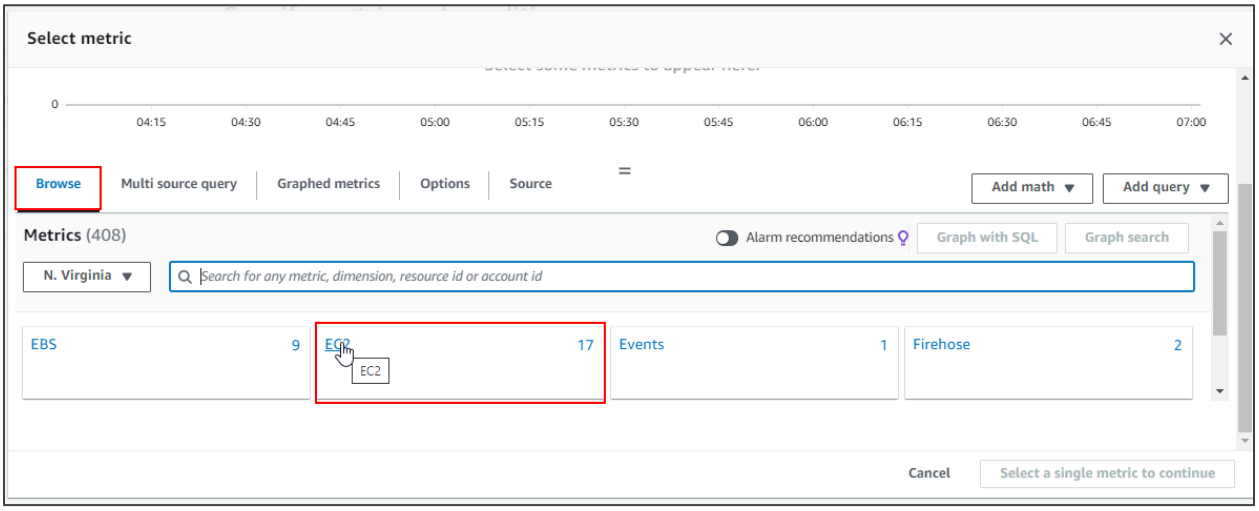
1.2 Go to the **Alarms** section of the left navigation pane and click **Create alarm** under the **In alarm** option

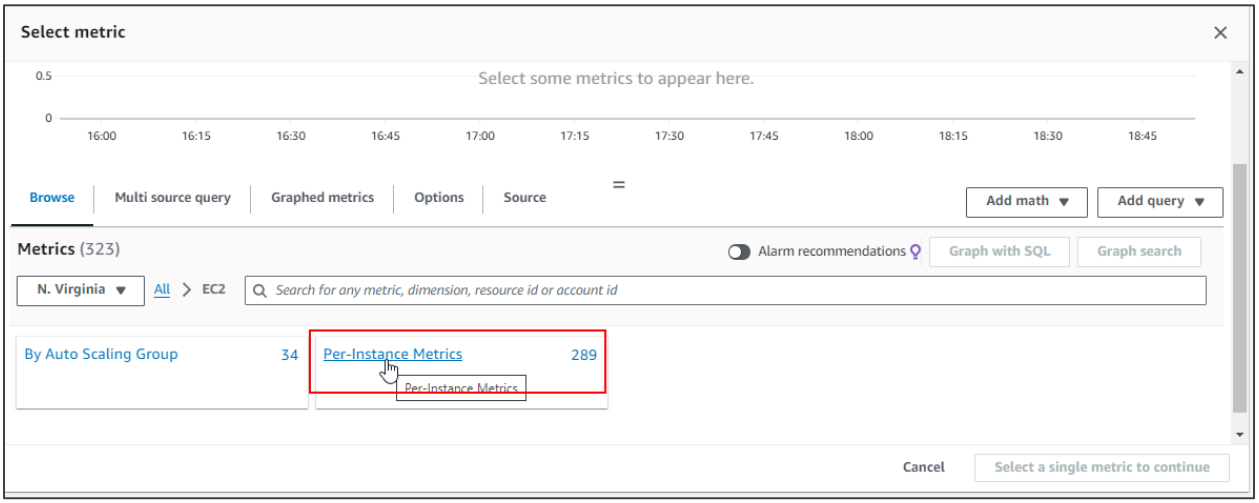


1.3 Click on **Select metric**

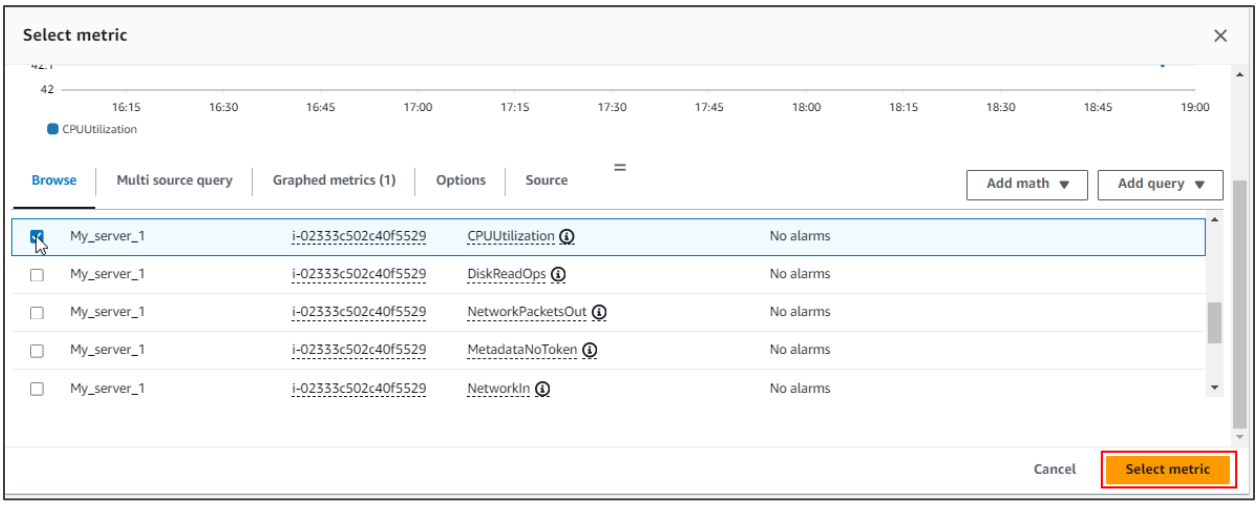


1.4 Under the Browse tab, choose **EC2** in the Metrics section, and then select **Per-Instance Metrics**

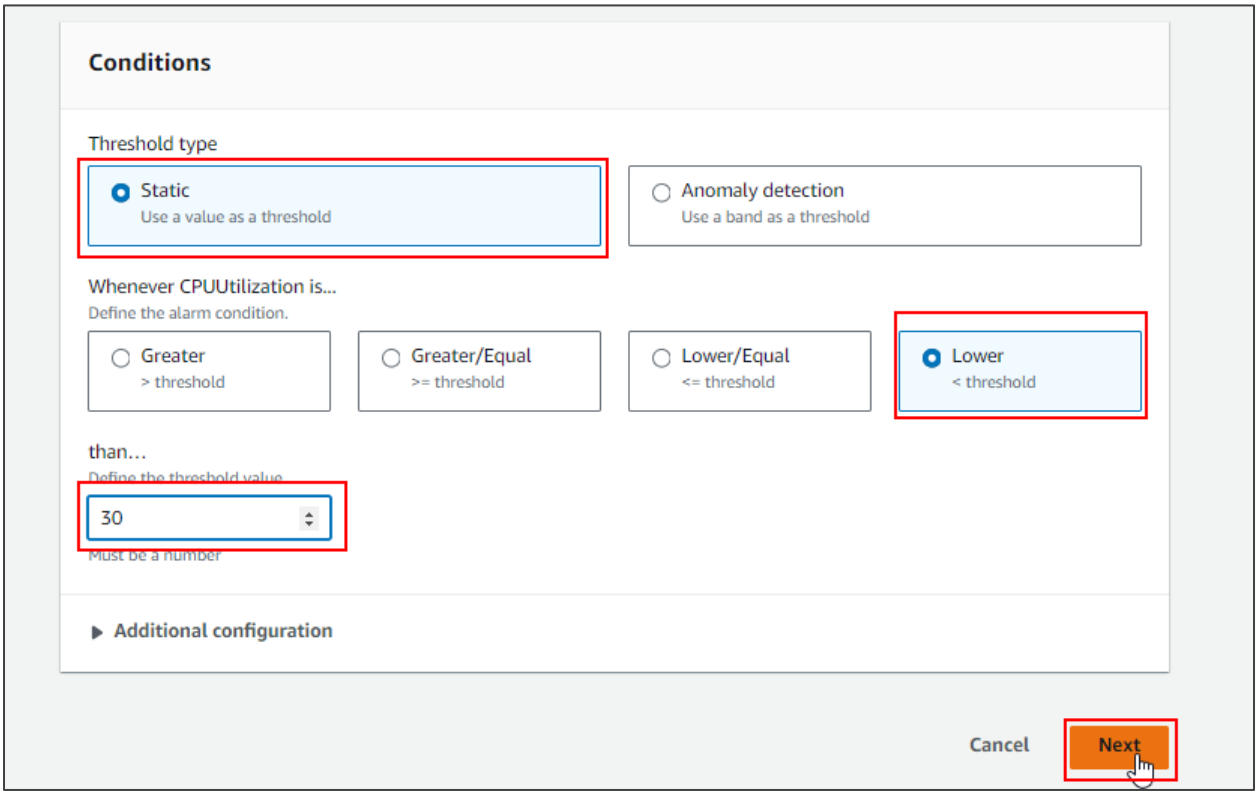




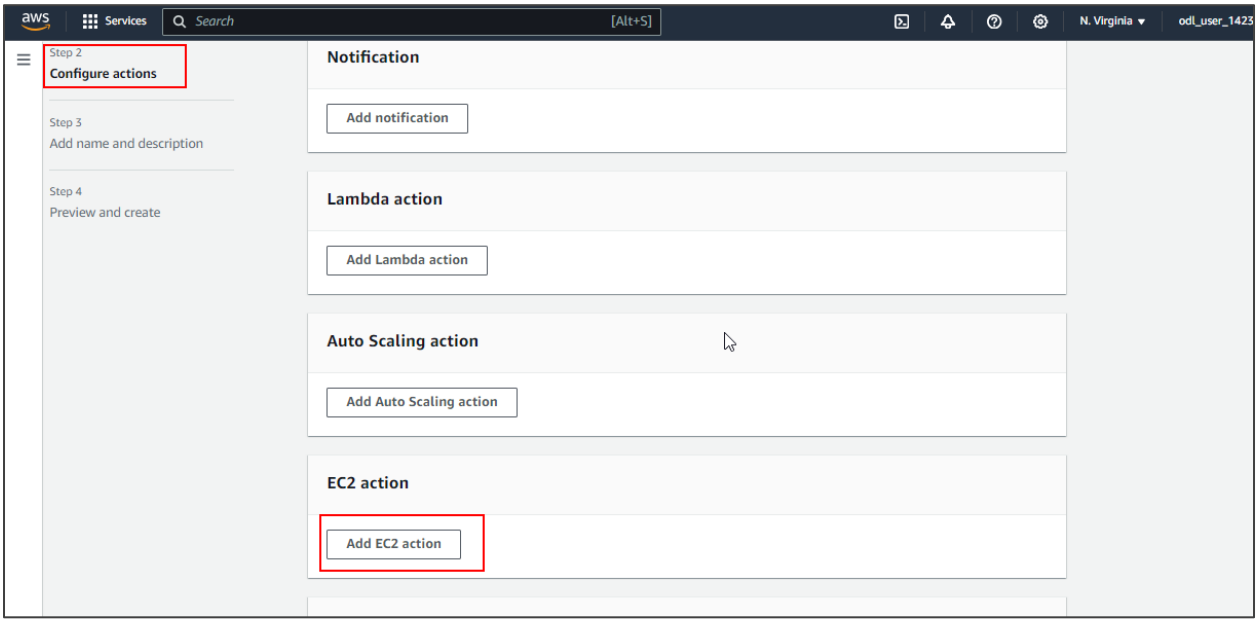
1.5 Select the **CPUUtilization** metric of your EC2 instance and click **Select metric**



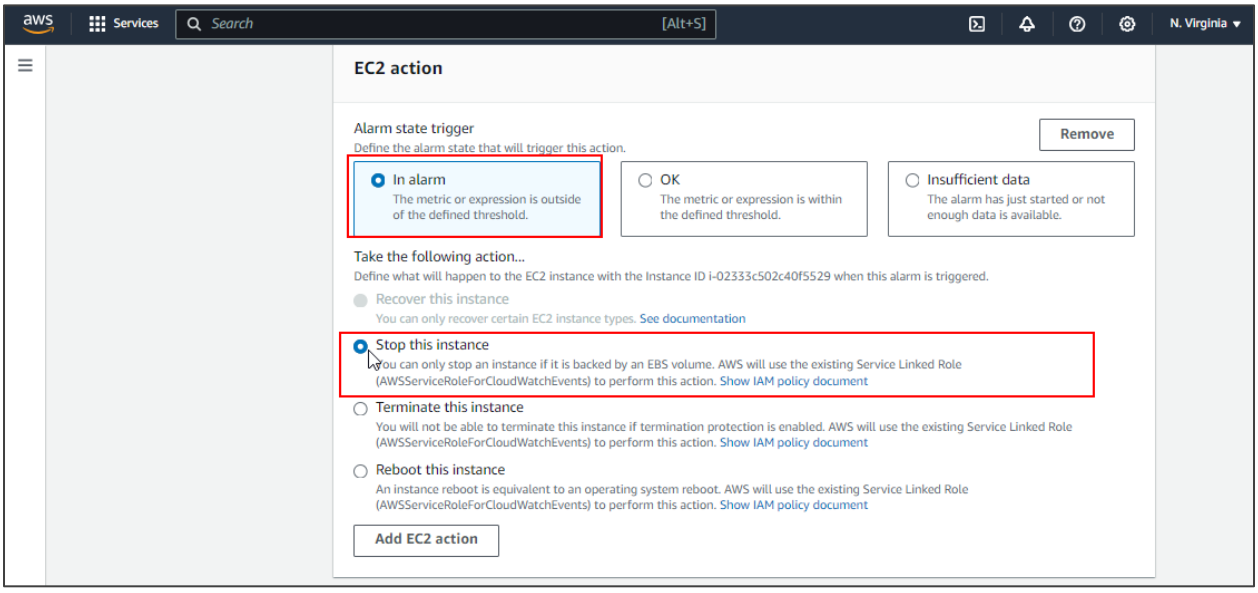
1.6 In the Conditions section, select **Static** for the Threshold type, set **Lower** for CPUUtilization, enter **30** as the threshold value, and click **Next**



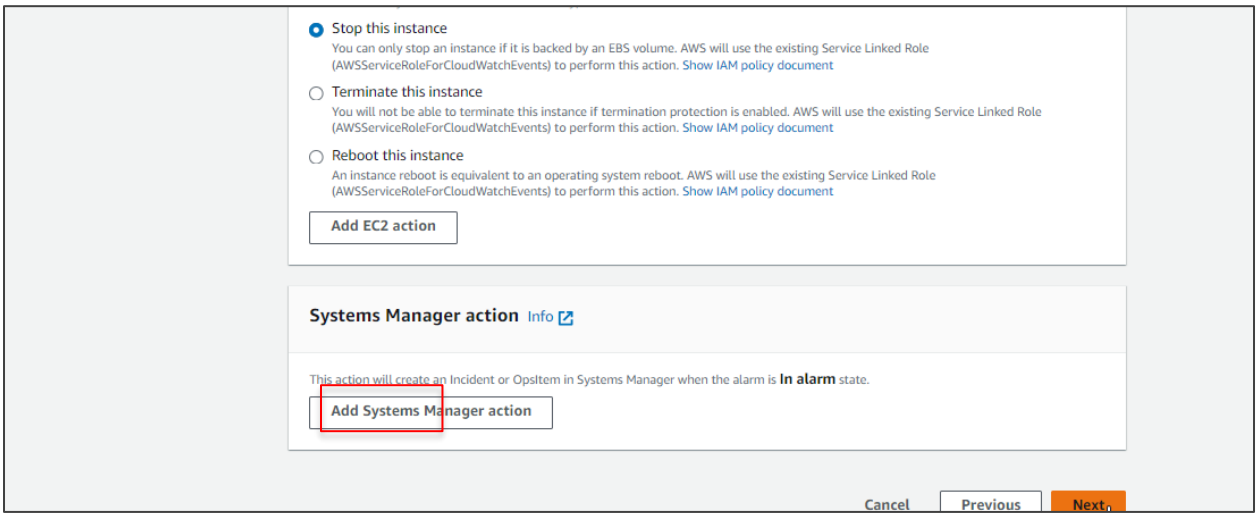
1.7 In the Configure actions page, click on **Add EC2 action**



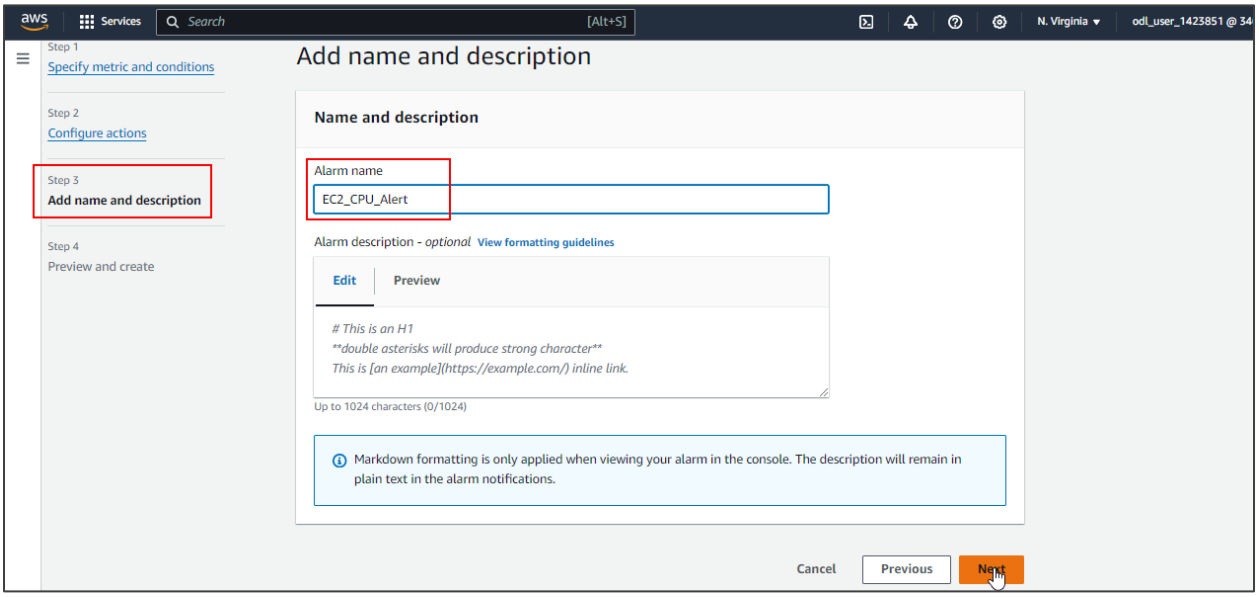
1.8 Select the **In alarm** and **Stop this instance** options



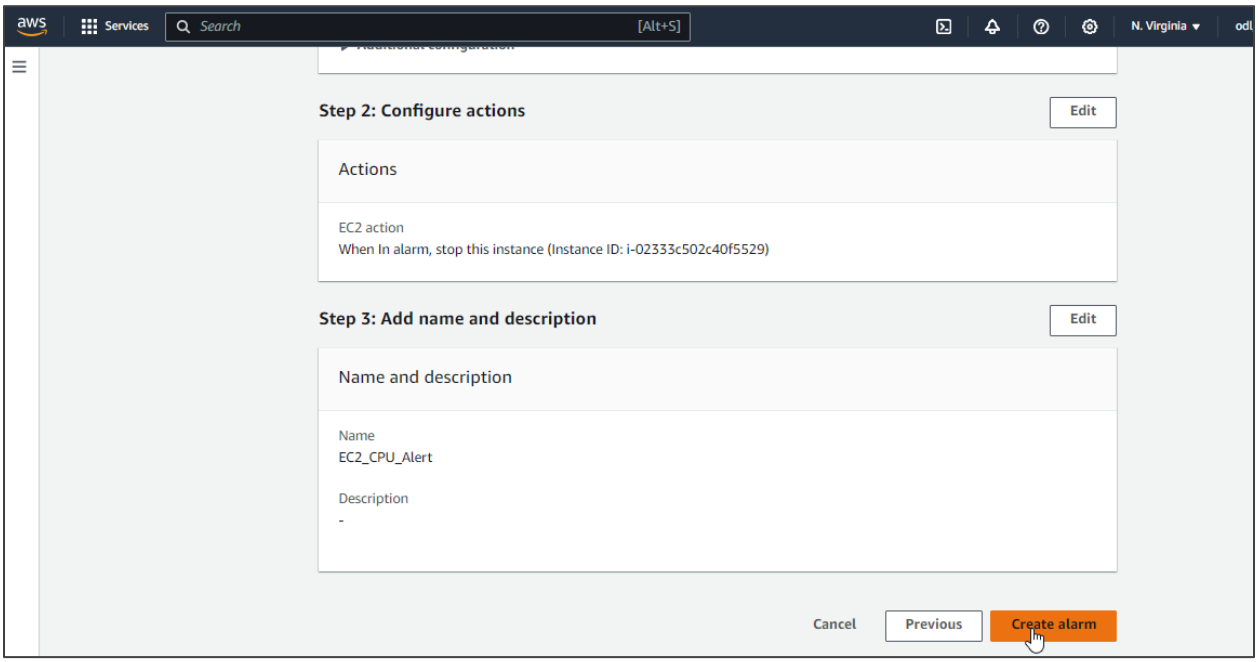
1.9 Click **Next**

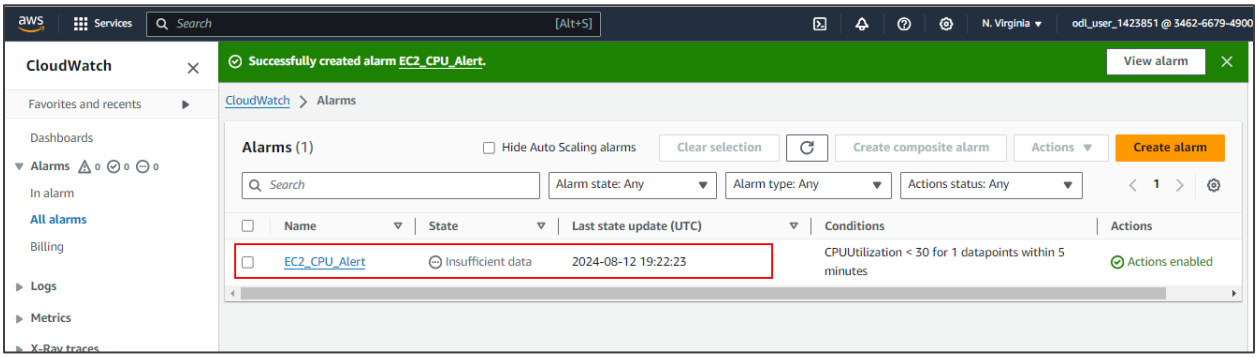


1.10 In the **Add name and description** section, assign a name to your alarm, and click **Next**



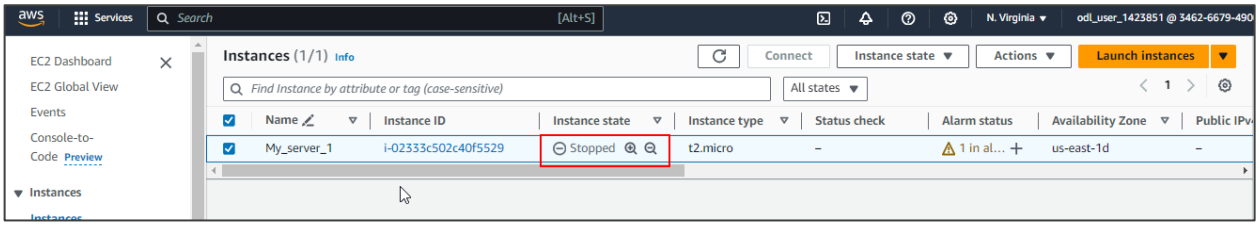
1.11 Preview the alarm configurations and click **Create alarm**





Once the alarm is created, it will be visible on the Alarms dashboard.

1.12 Navigate to the EC2 dashboard to check the instance state and alarm status. After a while, you will notice that the alarm triggers, causing the instance to stop.



By following these steps, you have successfully created a CloudWatch alarm that monitors the CPU utilization of your EC2 instance. The instance is automatically stopped when the CPU utilization falls below the specified threshold of 30%.