# Module 3:

# **CloudWatch Alarms Assignment**

#### **Problem Statement:**

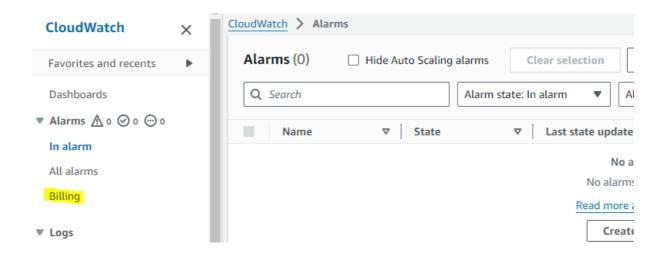
You work for XYZ Corporation. To maintain the security of the AWS account and the resources you have been asked to implement a solution that can help easily recognize and monitor the different users. Also, you will be monitoring the machines created by these users for any errors or misconfigurations.

#### Tasks to be Performed:

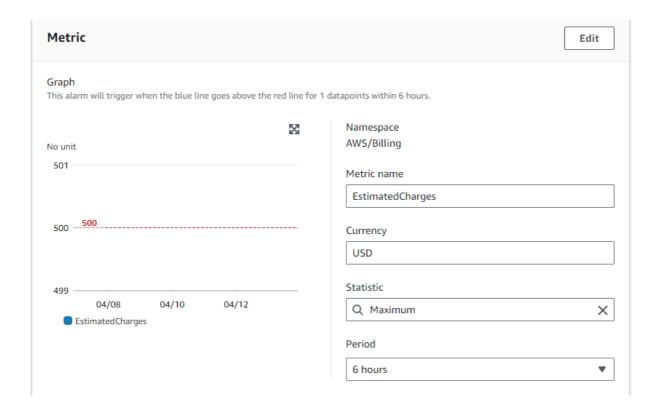
- 1. Create a CloudWatch billing alarm which goes off when the estimated charges go above \$500.
- 2. Create a CloudWatch alarm which goes off to an Alarm state when the CPU utilization of an EC2 instance goes above 65%. Also add an SNS topic so that it notifies the person when the threshold is crossed.

#### **Solutions:**

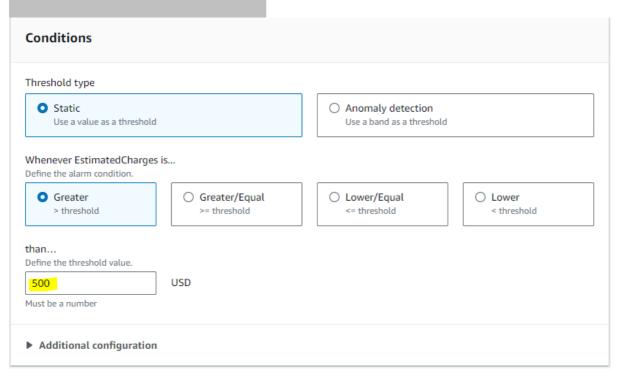
# Go to Cloudwatch > Alarms > Billing > Create Metric



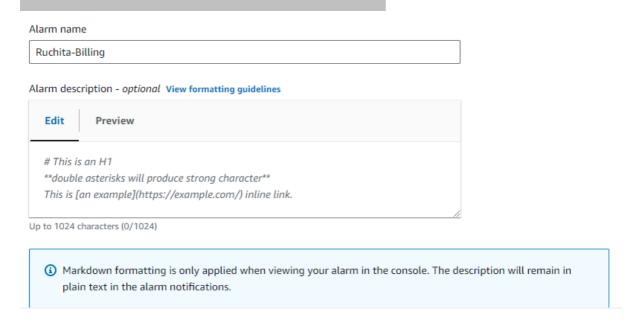
# Specify metric and conditions



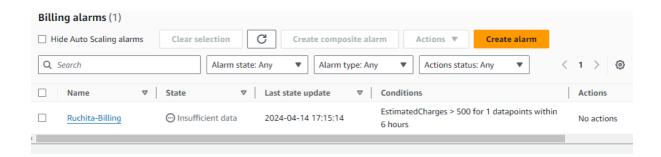
# Select conditions as per questions



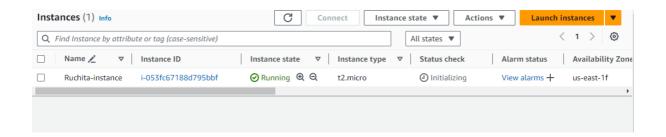
#### Give Alarm Name and then click on create alarm



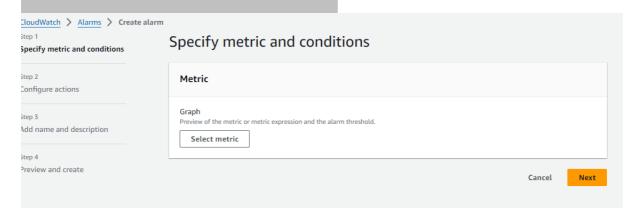
# Created the Billing alarm which goes off when the estimated charges go above \$500.



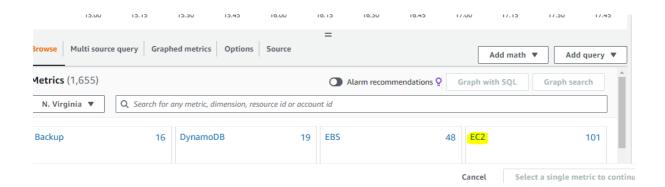
## To Create CloudWatch alarm, Create an EC2 instance



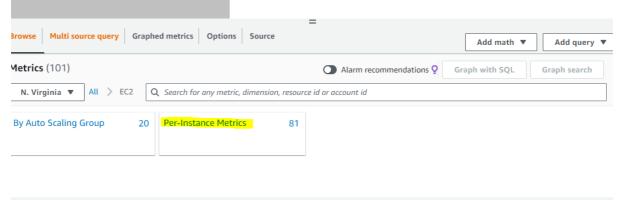
## Go to CloudWatch > Alarm > create Alarm



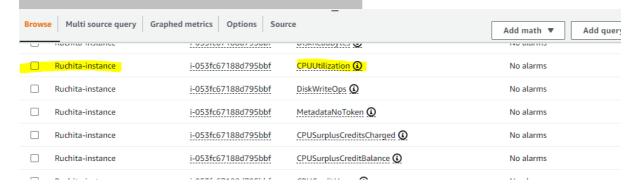
# Select EC2



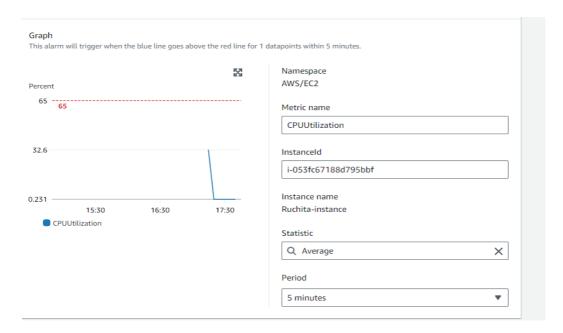
## Click on Per-instance Metrics



## Select CPUUtilization for the created instance

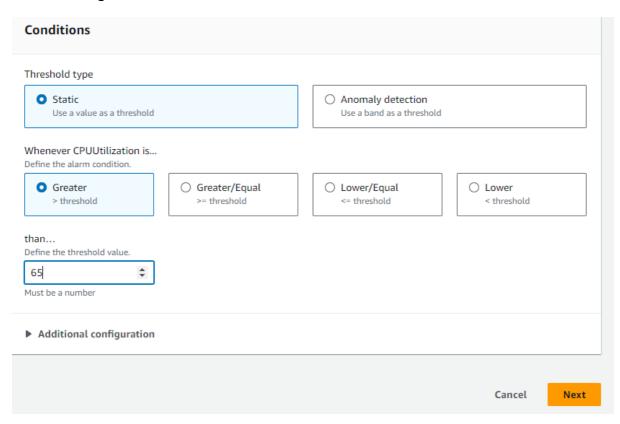


## Select the Metrics details

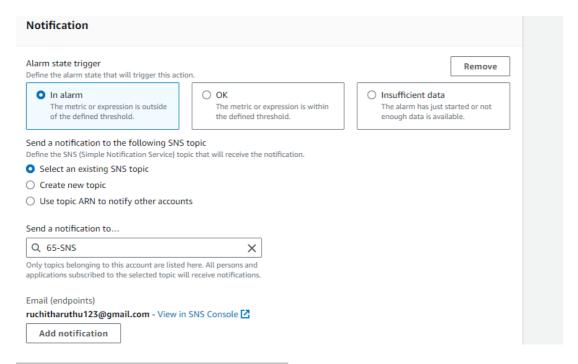


## Select the threshold Value 65 and Click Next

For which the CloudWatch alarm goes off to an Alarm state when the CPU utilization of an EC2 instance goes above 65%.



Add SNS topic so that it notifies the person when the threshold is crossed



#### Give the Alarm name and Click Next

#### Name and description

Alarm name

Ruchi-Alarm

Alarm description - optional View formatting guidelines

Edit Preview

# This is an H1

\*\*double asterisks will produce strong character\*\*
This is [an example](https://example.com/) inline link.

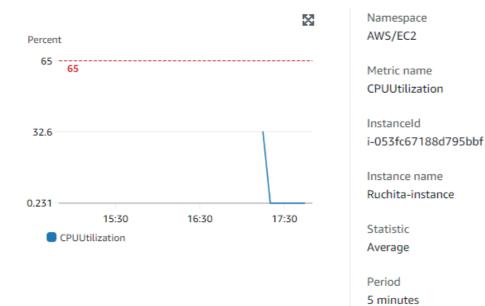
Up to 1024 characters (0/1024)

(1) Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.

## **Preview and Create**

#### Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.



#### **Conditions**

Threshold type

Static

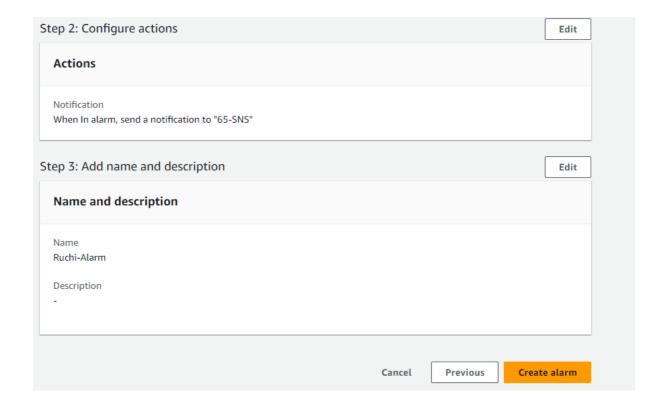
Whenever **CPUUtilization** is

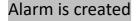
Greater (>)

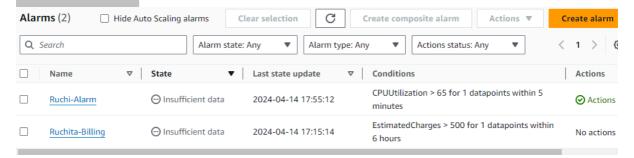
than...

65

► Additional configuration







# You will receive the AWS Notification for the Subscription Confirmation





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Simple Notification Service

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You have successfully subscribed.

Your subscription's id is: arn:aws:sns:us-east-1:730335274013:Default\_CloudWatch\_Alarms\_Topic:784e4999-93f4-46a5-ad8f-

If it was not your intention to subscribe, <u>click here to unsubscribe</u>.

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