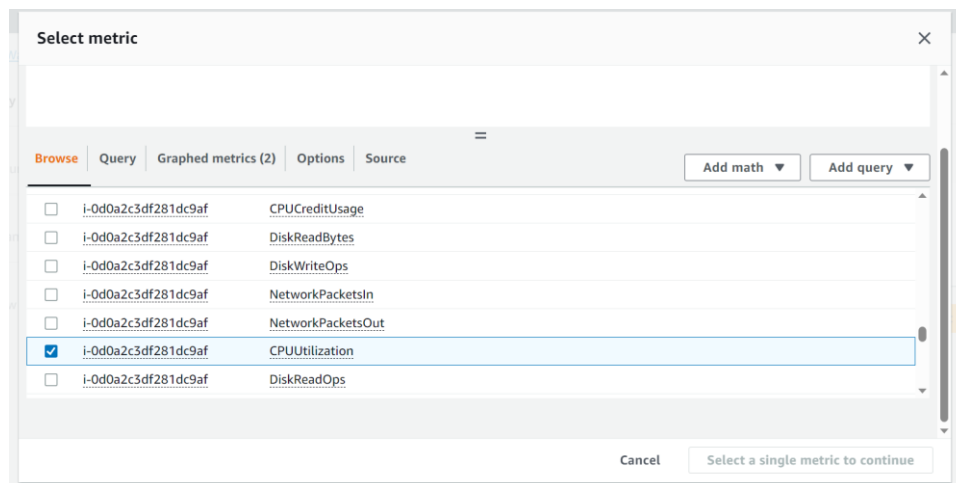## AWS cloudwatch alarm setup to instances CPU utilization :

Way 1 :

[] Open the aws console and in the navigation pane open **cloudwatch**

[] choose **Alarms**, **All alarms.**

[] Choose **Create alarm**.

[] Choose **Select Metric**.

[] select **EC2** then select **pre instance Metrices**.

[] select which instance want

[] For **Alarm thresholds**, select the metric and criteria for the alarm. For example, you can leave the default settings for **Group samples by** (**Average**) and **Type of data to sample** (**CPU utilization**). For **Alarm when**, choose **>=** and enter `0.80`. For **Consecutive period**, enter `1`. For **Period**, select **5 minutes**.

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

No unit

11

10 — — 10 — — — — — — — — — —

9

03:30   04:30   05:30
■ CPUUtilization

Namespace
AWS/EC2

Metric name
CPUUtilization

InstanceId
i-0d0a2c3df281dc9af

Instance name
example-1

Statistic
🔍 Average   ✕

Period
5 minutes   ▼

Conditions

Threshold type

● Static
Use a value as a threshold

○ Anomaly detection
Use a band as a threshold

Whenever CPUUtilization is...
Define the alarm condition.

○ Greater
> threshold

● Greater/Equal
>= threshold

○ Lower/Equal
<= threshold

○ Lower
< threshold

than...
Define the threshold value.

10

Must be a number

▶ Additional configuration

Cancel   Next

[] next

[] in configure actions

[] In **Alarm state trigger** in that select **in alarm**

[] **Select an existing SNS topic** (first we should create SNS topics) or choose to create new topics

[] in send notifications select which we **already created SNS**

[] after selecting SNS in Email (endpoints) its shows email id which we mention in SNS

[] next and give alarm name and next

[] create alarm

Configure actions

Notification

Alarm state trigger
Define the alarm state that will trigger this action.

[Remove]

- ● **In alarm**
  The metric or expression is outside of the defined threshold.
- ○ **OK**
  The metric or expression is within the defined threshold.
- ○ **Insufficient data**
  The alarm has just started or not enough data is available.

Send a notification to the following SNS topic
Define the SNS (Simple Notification Service) topic that will receive the notification.

- ● Select an existing SNS topic
- ○ Create new topic
- ○ Use topic ARN to notify other accounts

Send a notification to...

🔍 ec2notifiy   ✕

Only email lists for this account are available.

Email (endpoints)
kanchanagm123@gmail.com - View in SNS Console ↗

[Add notification]

Auto Scaling action

Way 2:

1. In the navigation pane, choose **Instances**.
2. Select the instance and choose **Actions**, **Monitor and troubleshoot**, **Manage CloudWatch alarms**.
3. On the **Manage CloudWatch alarms** detail page, under **Add or edit alarm**, select **Create an alarm**.
4. For **Alarm notification**, choose whether to turn the toggle on or off to configure Amazon Simple Notification Service (Amazon SNS) notifications. Enter an existing Amazon SNS topic or enter a name to create a new topic.
5. For **Alarm action**, choose whether to turn the toggle on or off to specify an action to take when the alarm is triggered. Select an action from the dropdown.
6. For **Alarm thresholds**, select the metric and criteria for the alarm. For example, you can leave the default settings for **Group samples by** (**Average**) and **Type of data to sample** (**CPU utilization**). For **Alarm when**, choose **>=** and enter `0.80`. For **Consecutive period**, enter `1`. For **Period**, select **5 minutes**.
7. (Optional) For **Sample metric data**, choose **Add to dashboard**.
8. Choose **Create**.

When the CPU threshold more or less (how we mention) we get email when it cross