10th September 2024 – Autoscaling

➢ Create template launch configuration

a. Select AMI as Amazon Linux

b. Select instance type is “t2.micro”

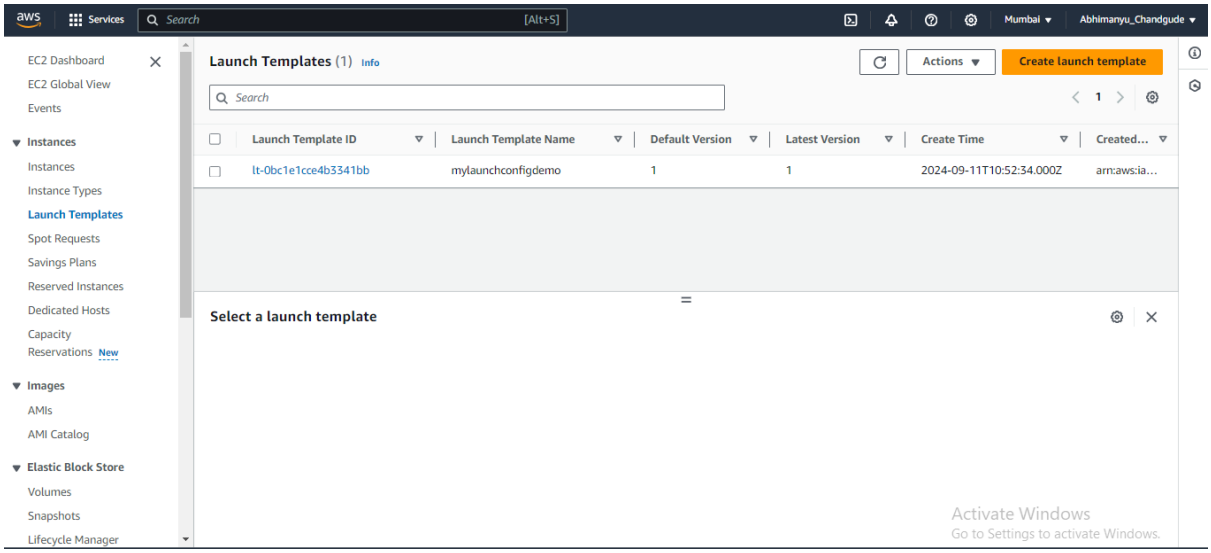
c. Select key-pair

d. Select security group

e. Select role with s3FullAccess

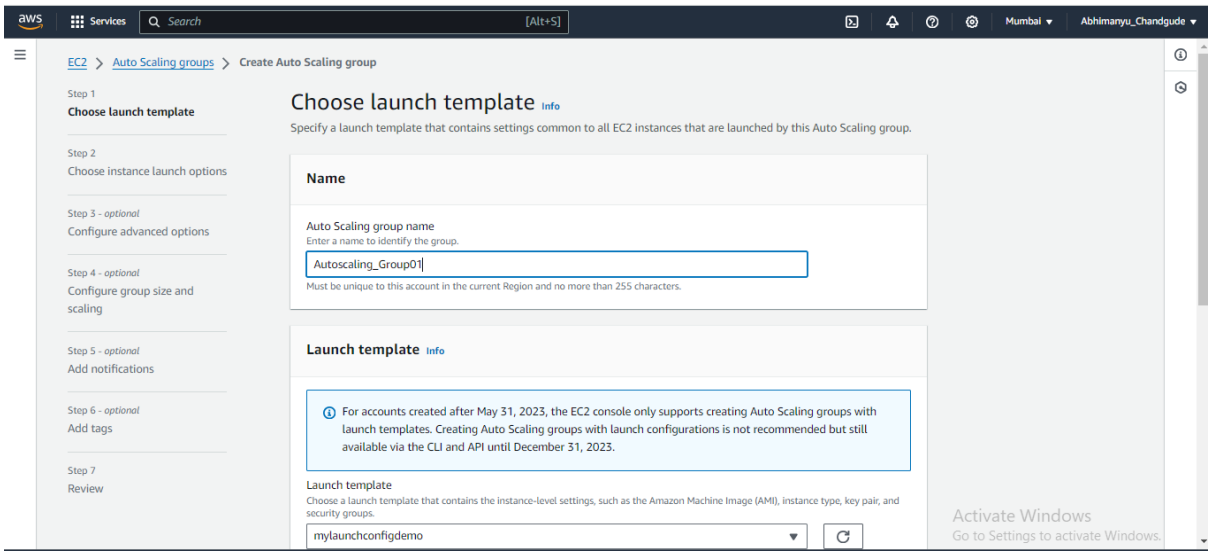
f. Advance setting >> Add bootstrap script

g. Create launch template

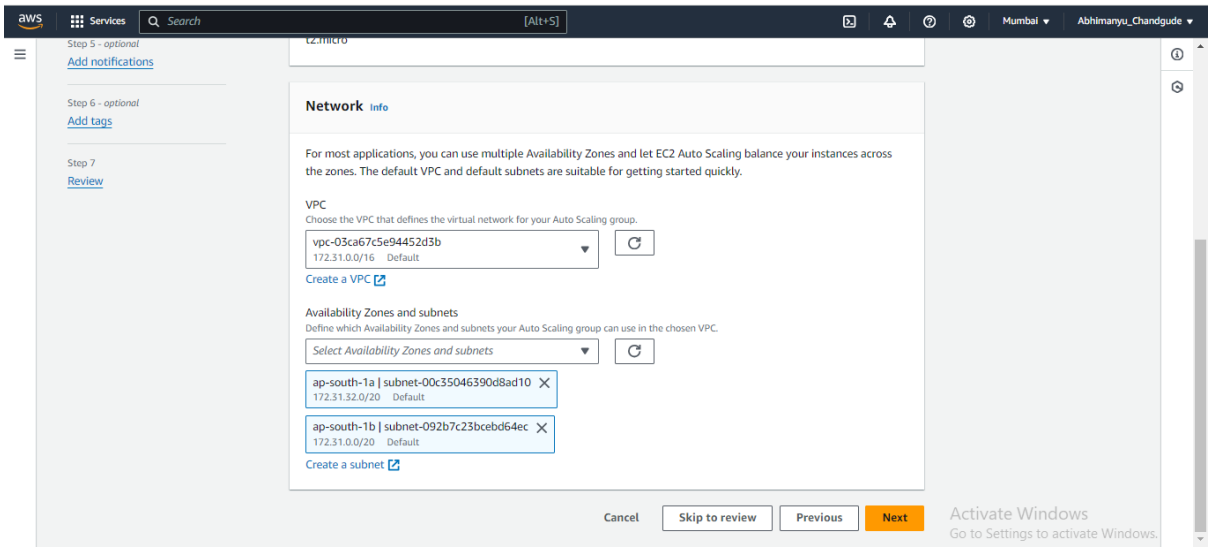


➢ Create Autoscaling Group

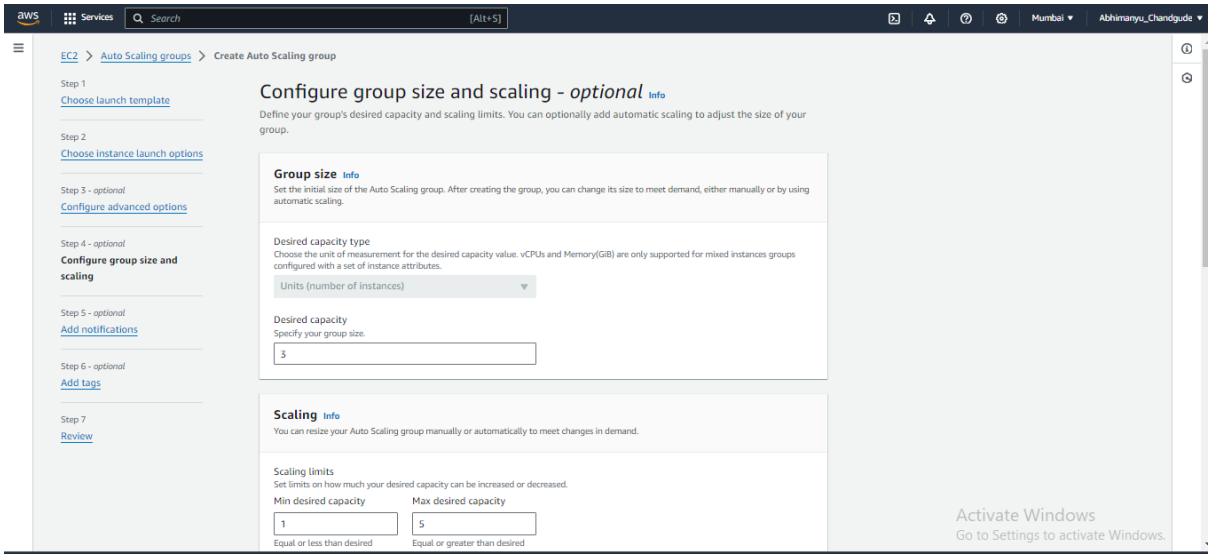
a. Provide group name and select template which is created



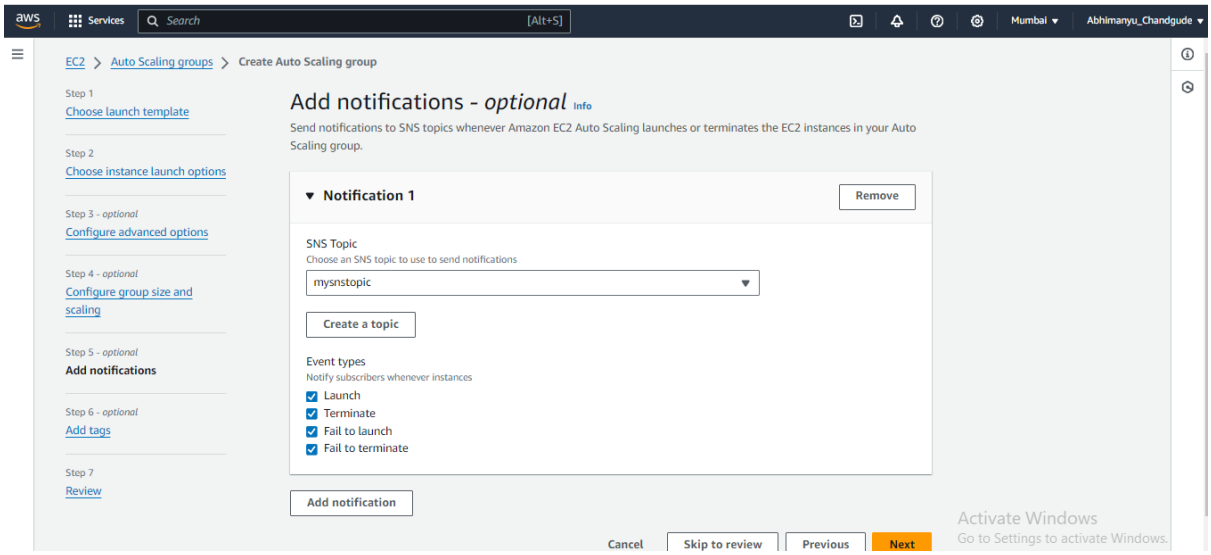
b. Select Availability zones which you want to create instance



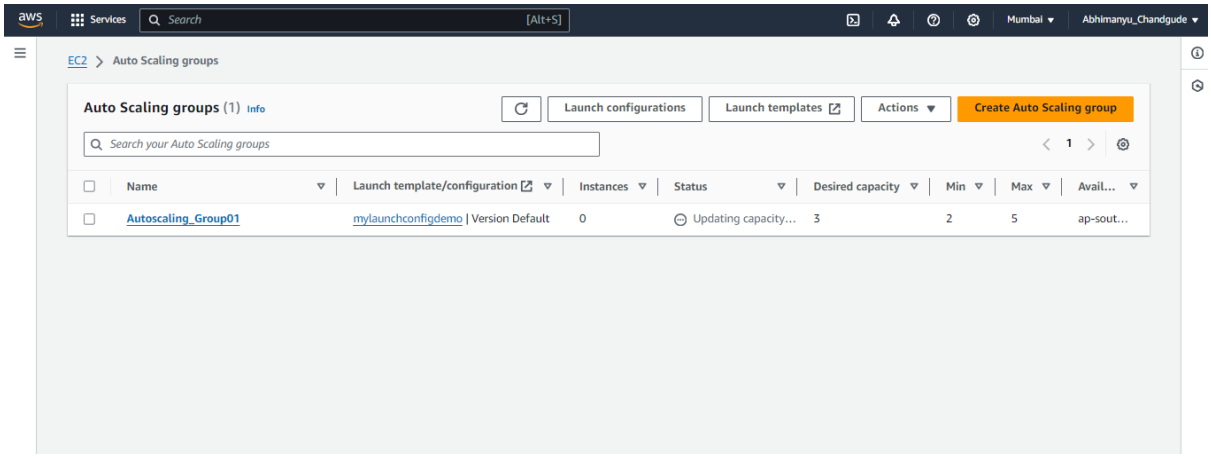
c. Configure group size and scaling



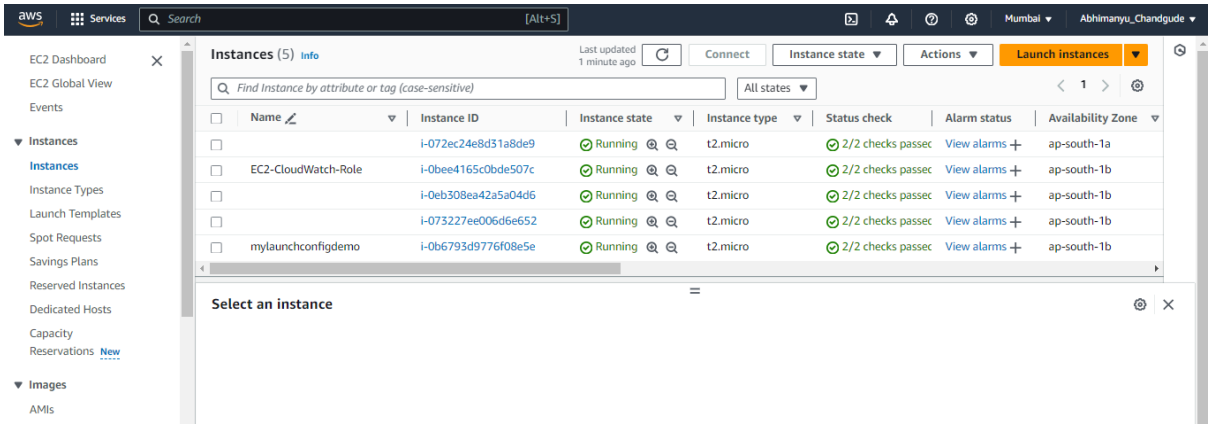
d. Add Notification



e. Autoscaling group have been created

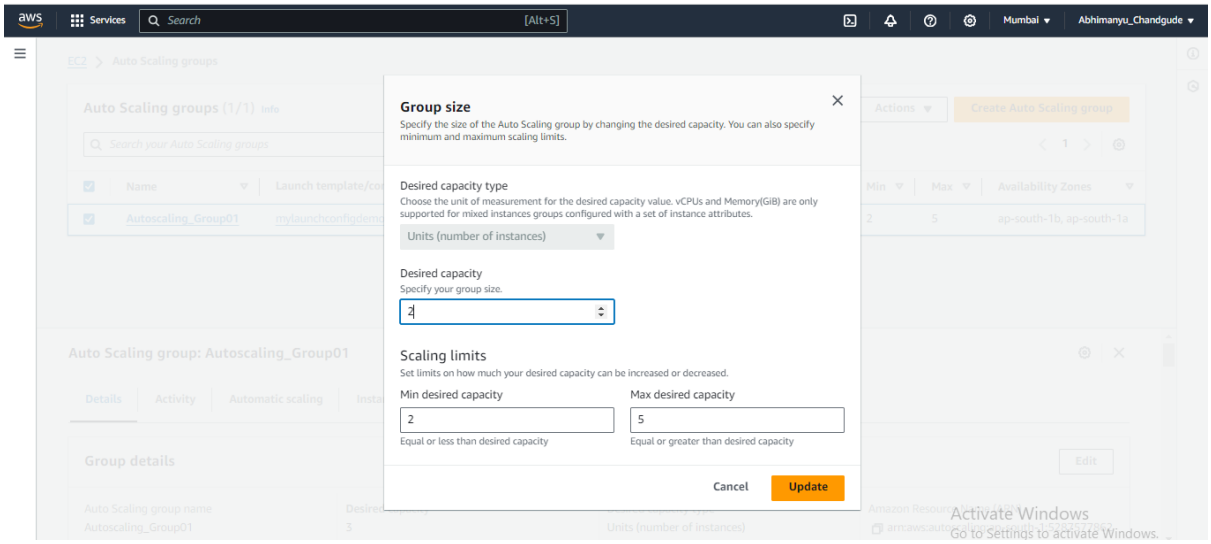


f. Autoscaling group have been created 3 instances as we mentioned in desire “3” count

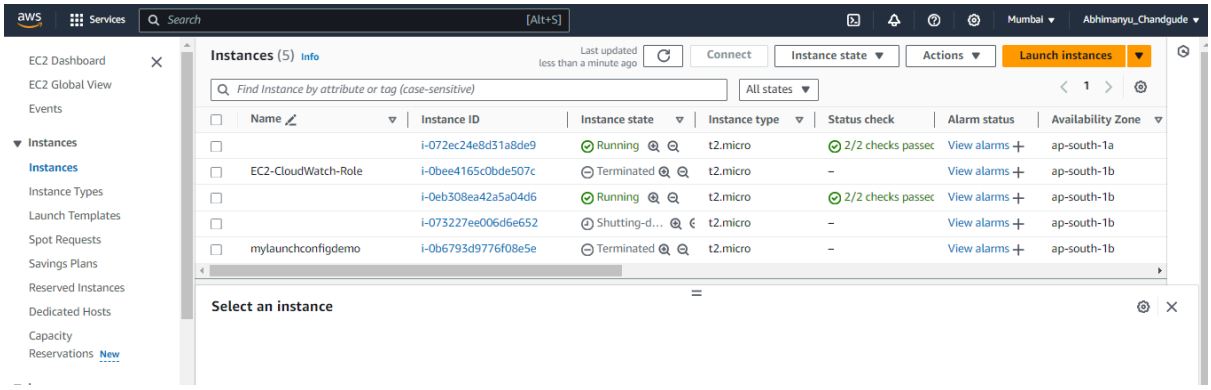


- Manual Scaling

If I change desired value manually as “2” so Autoscaling group should remove 1 instance



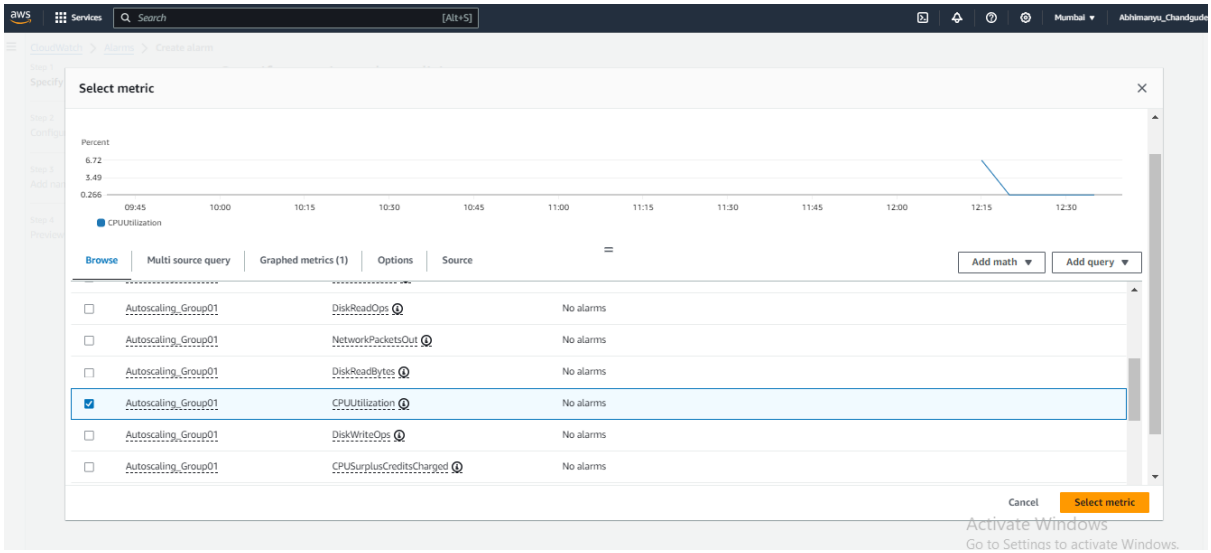
We can see one instance is going to terminate



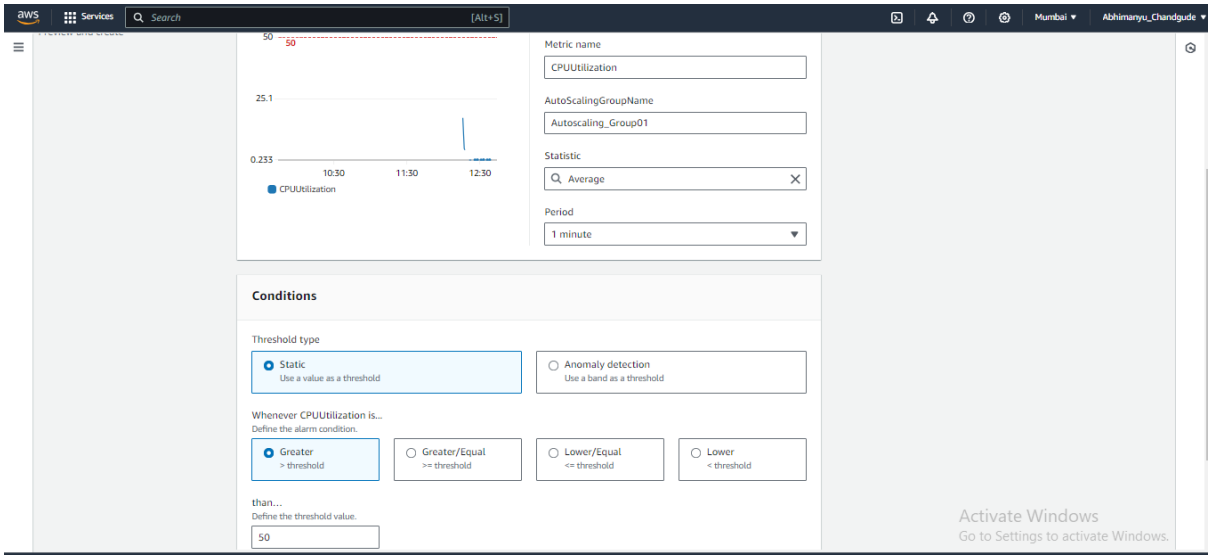
➢ Automatic Scaling

To create Automatic scaling, we required alarm to set Create dynamic scaling policies

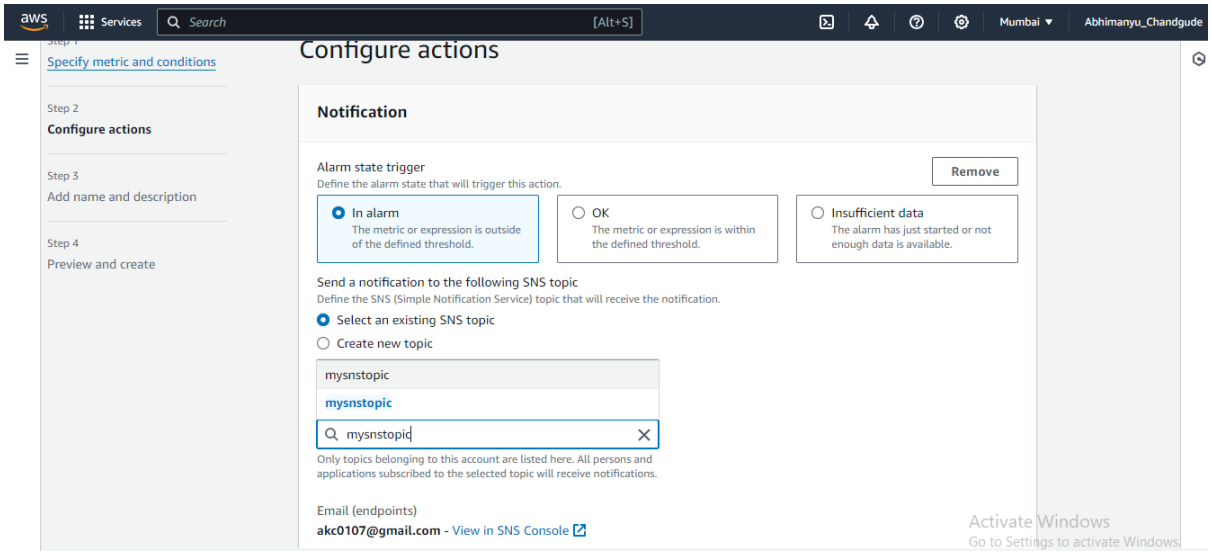
1. Create alarm for Autoscaling group
   a. Select metrics (CPU Utilization)



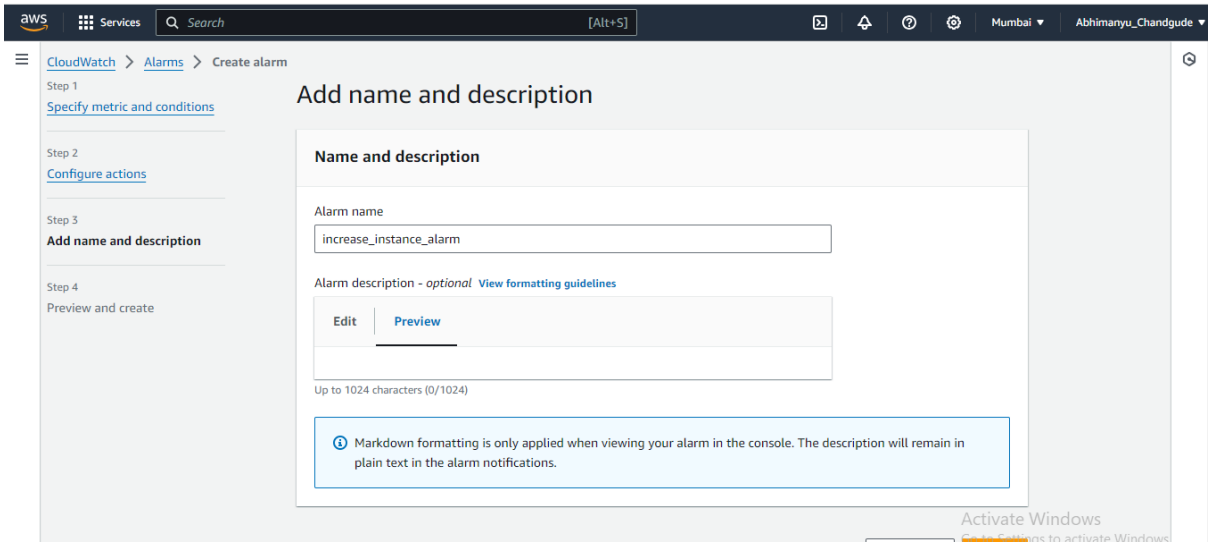
b. Select timeperiod “1 min” and threshold value (utilization>50)



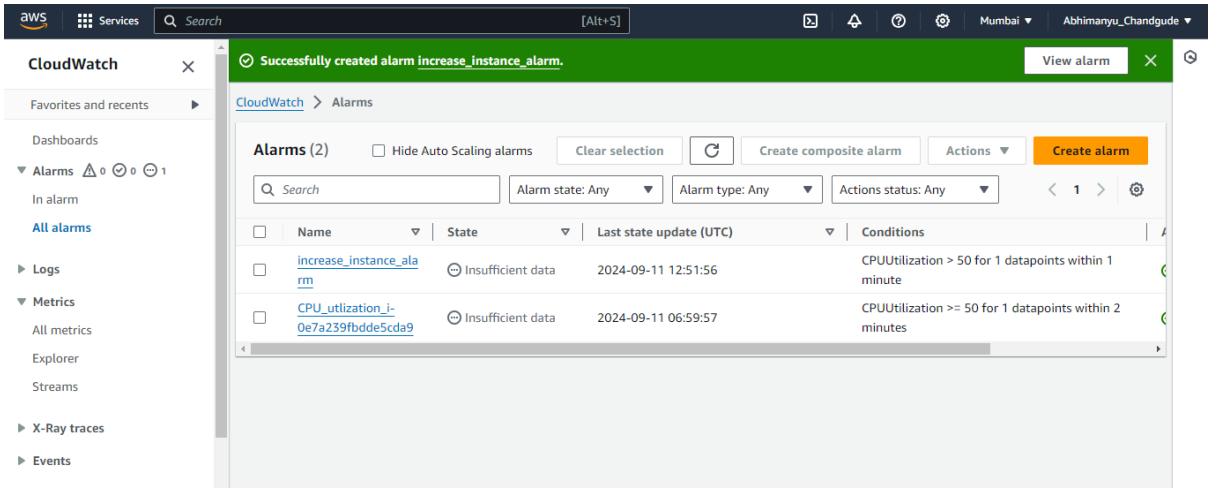
c. Select in which state you want to trigger “In alarm” and add SNS topic



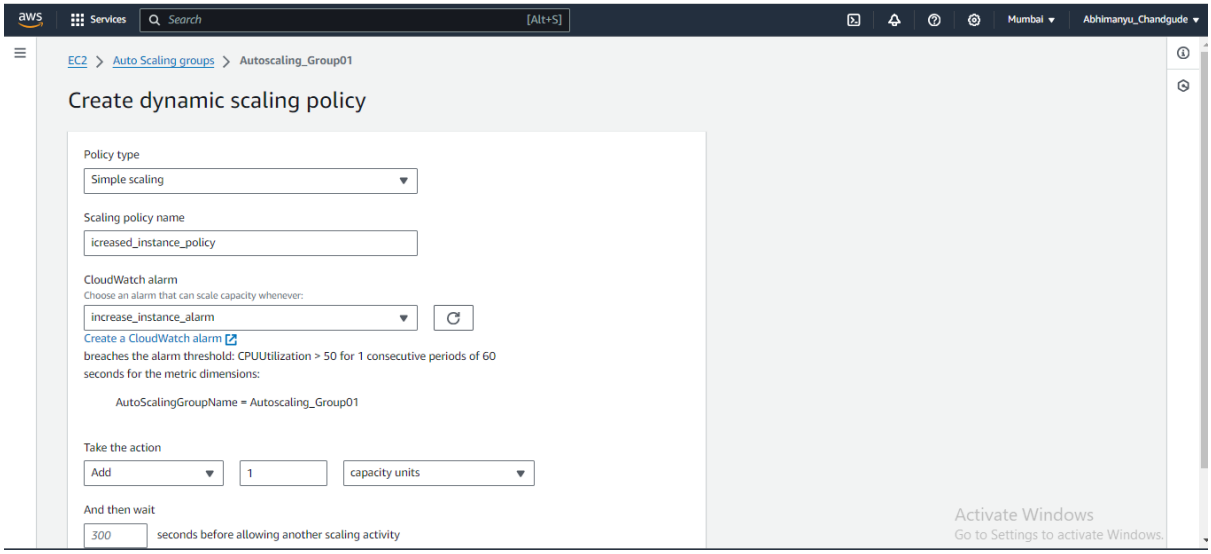
d. Add name for Alarm



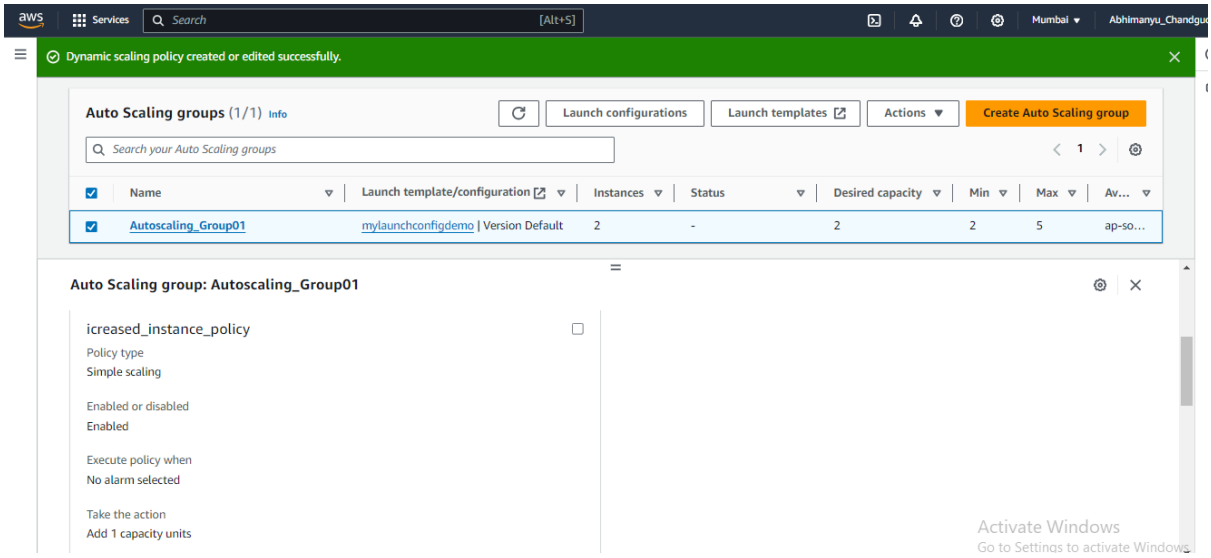
e. Alarm have been created



- Create Dynamic Policy with alarm in take action added count as “1”. It means if utilization is goes above threshold i.e. 50% it should add one more instance.

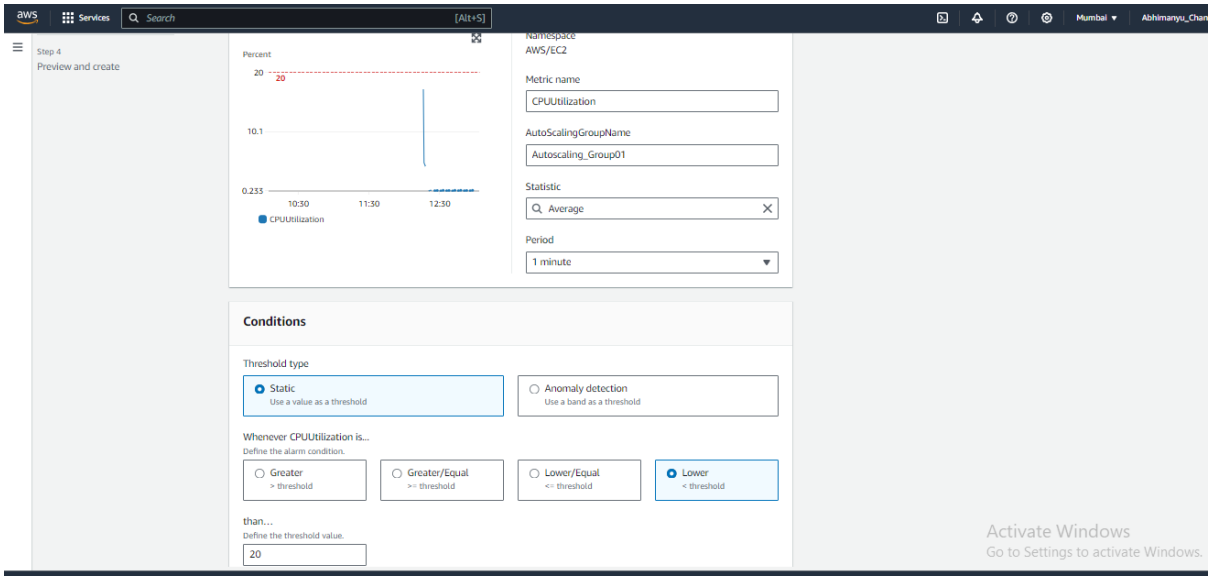


Created Dynamic policy as “Increase_instance_alarm”

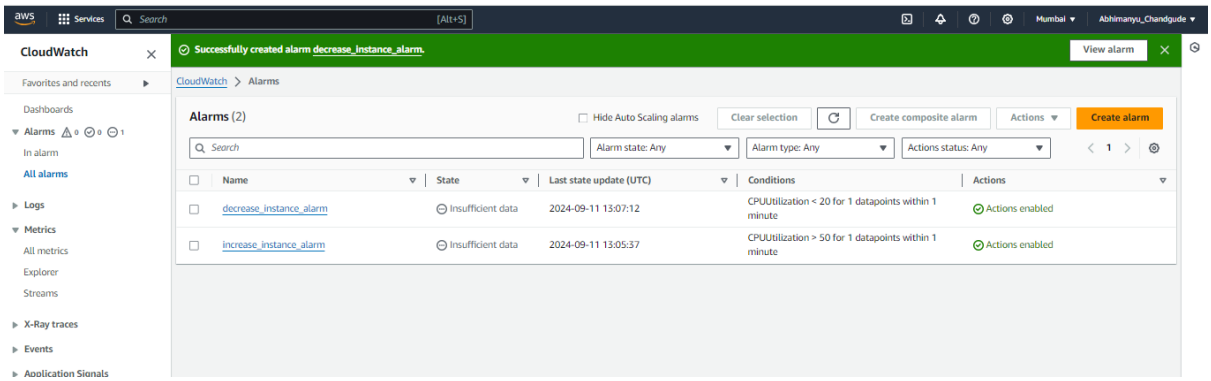


For one more dynamic policy we need to create one more alarm as “Decrease_instance_alarm”

1. Now condition is {if CPU utilization is below 20% it should trigger the alarm}

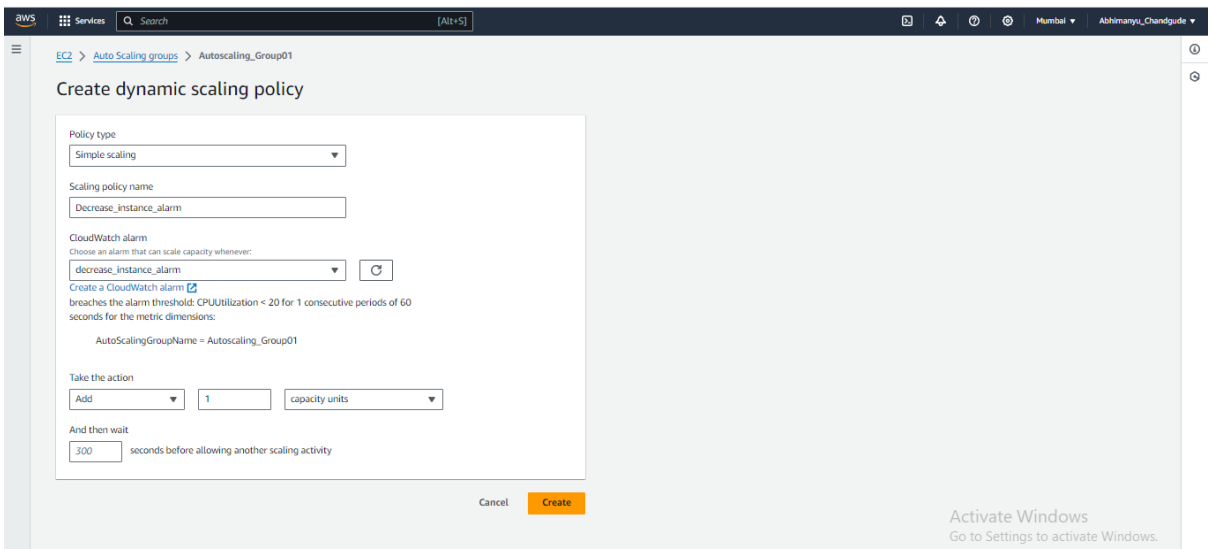


2. Alarm have been created

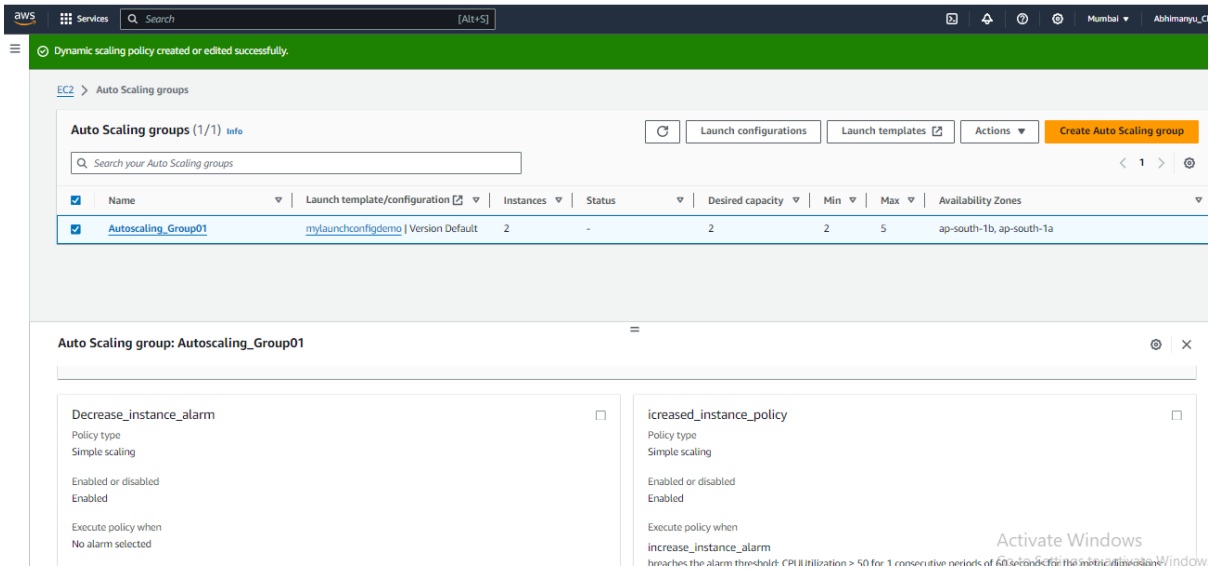


- Create policy as “decrease_instance_policy” in take action select “Remove” and added count as “1”

It means if utilization is below its threshold i.e. 20% it should remove one instance.



We have added two policies successfully and both are enabled.



➢ Output

We could see one alarm has been triggered “decrease_instance_alarm”. As checked average CPU utilization of instance is below 20% only.