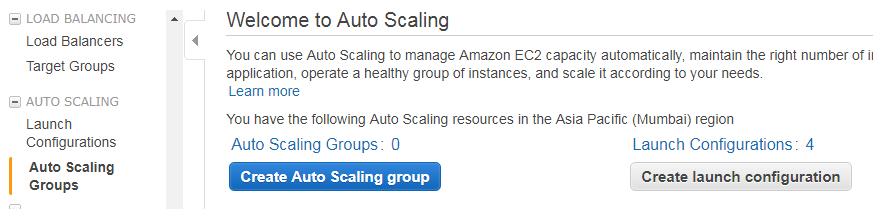
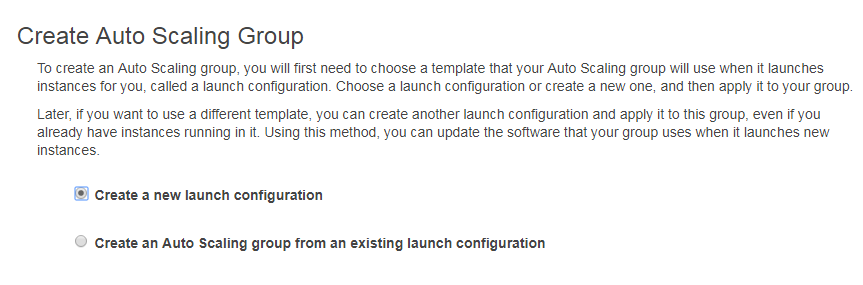
**Auto Scaling Group**

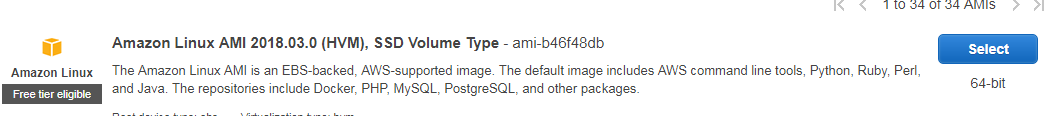
**In EC2 Dashboard under Auto scaling click on Auto Scaling Groups and create auto scaling group**



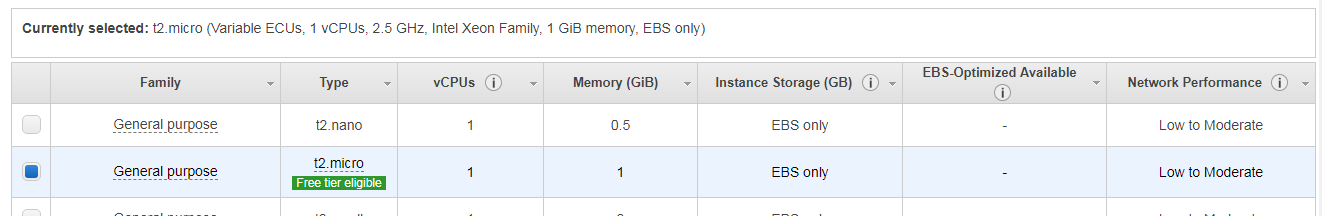
**Select a new launch configuration**



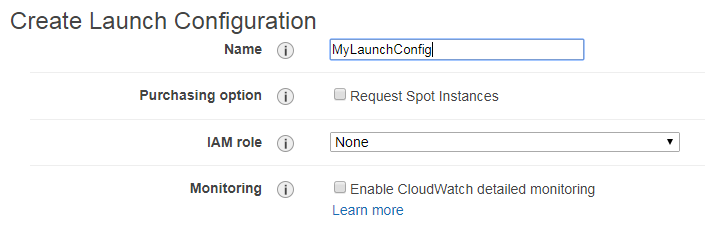
**Select amazon linux AMI**



**Select instance type t2.micro**



**Under create launch configuration leave default values and click on advanced settings**



**Leave default kernel ID and Ram Disk ID. Write the following bash script in user data.**

**#!/bash/bin**

**sudo su**

**yum update -y**

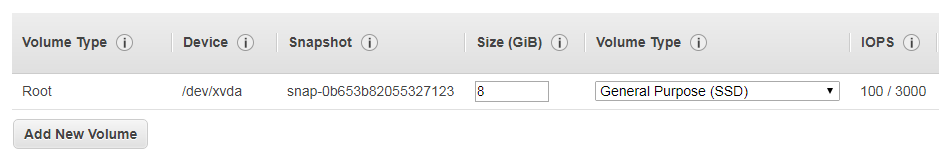
**yum install httpd -y**

**service httpd start**

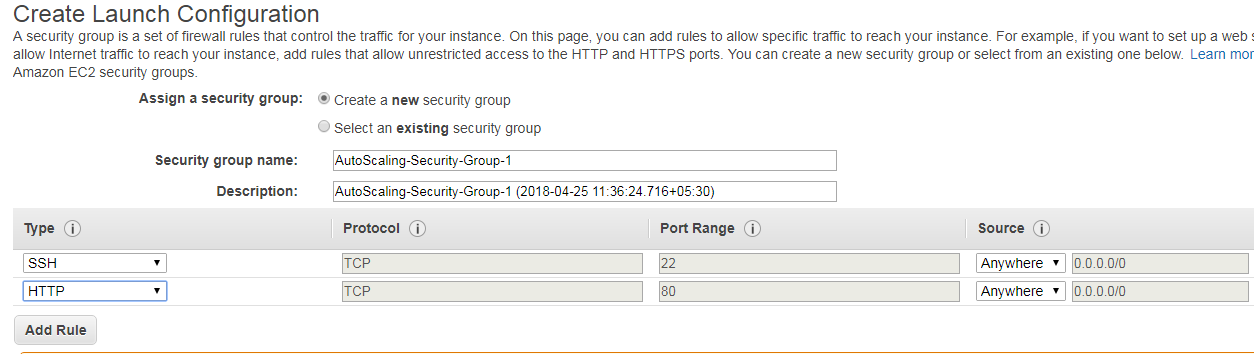
**echo "<html><body><h1>Hello from web server</h1></body></html>"** **>/var/www/html/index.html**



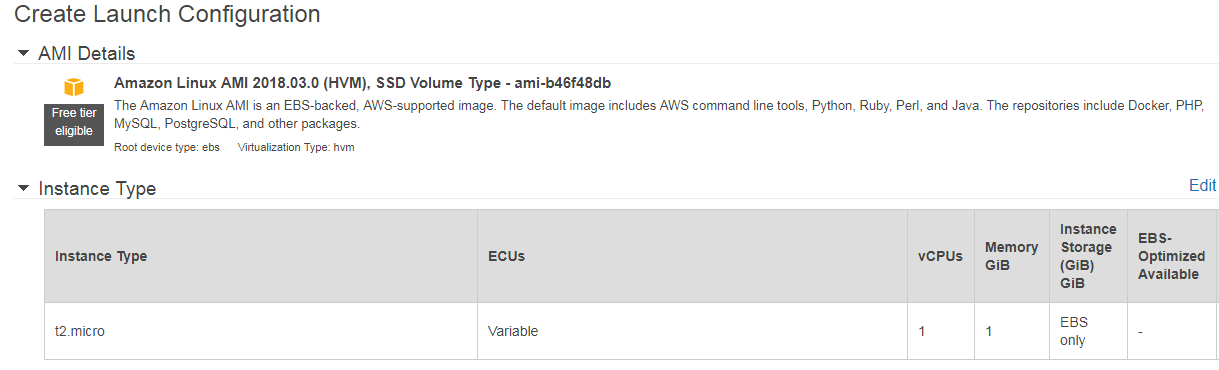
**Add the default root volume**



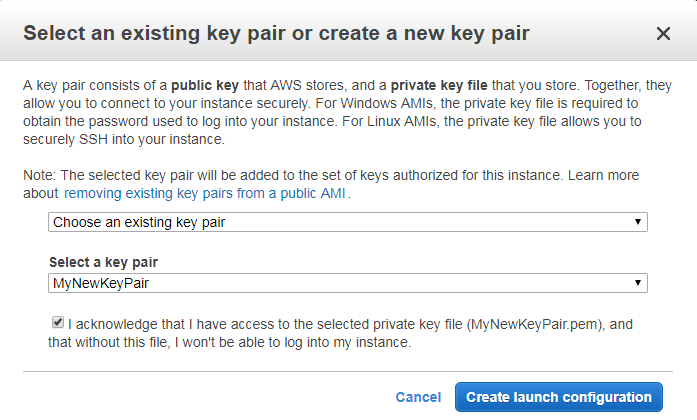
**Create new security group of type SSH and HTTP. Your source should be anywhere**

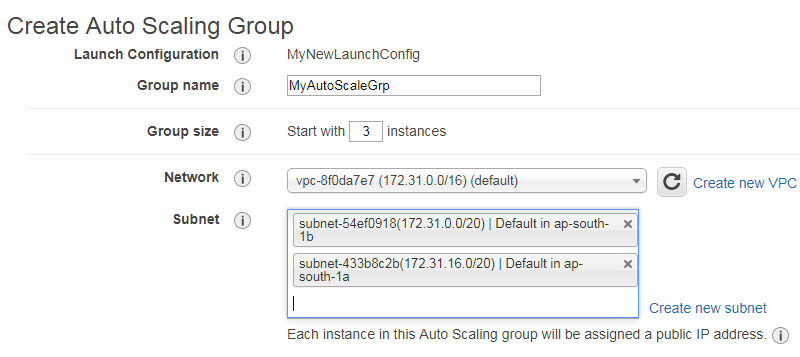


**Review your configuration details and create it**

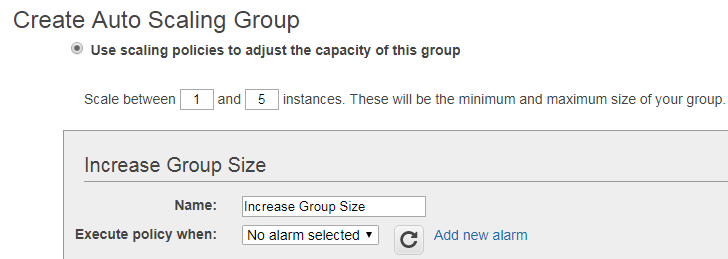


**Select an existing key pair and create launch configuration**

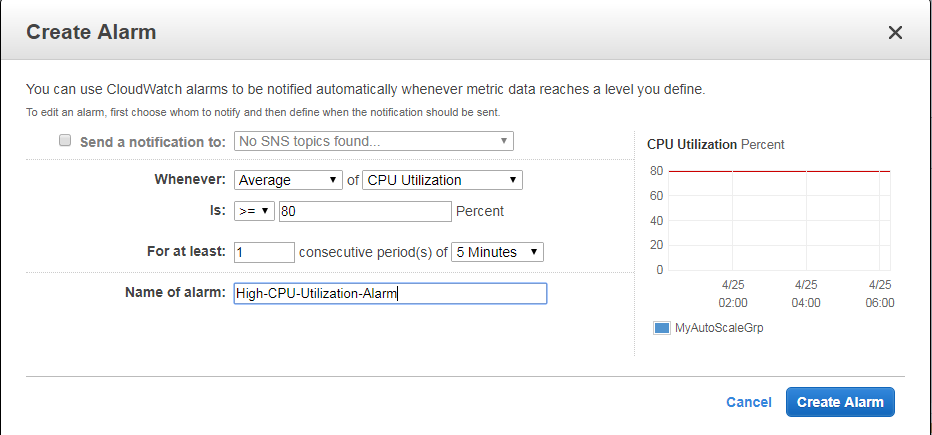


**Under create auto scaling group give group name, group size (start with 3 instances), your default VPC,** **select both subnets in availability zone**

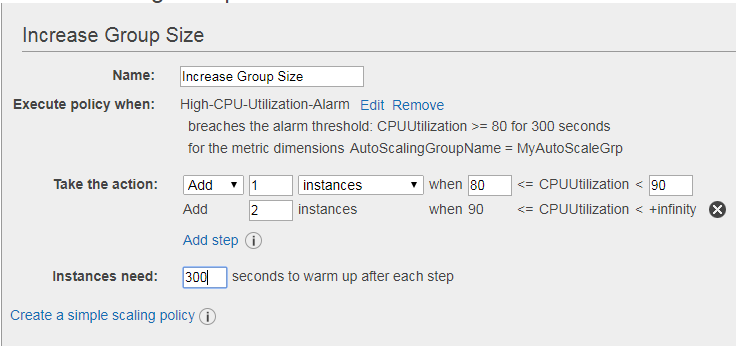
**Select use scaling policies and scale between 1 and 5 instances. Click on add new alarm**

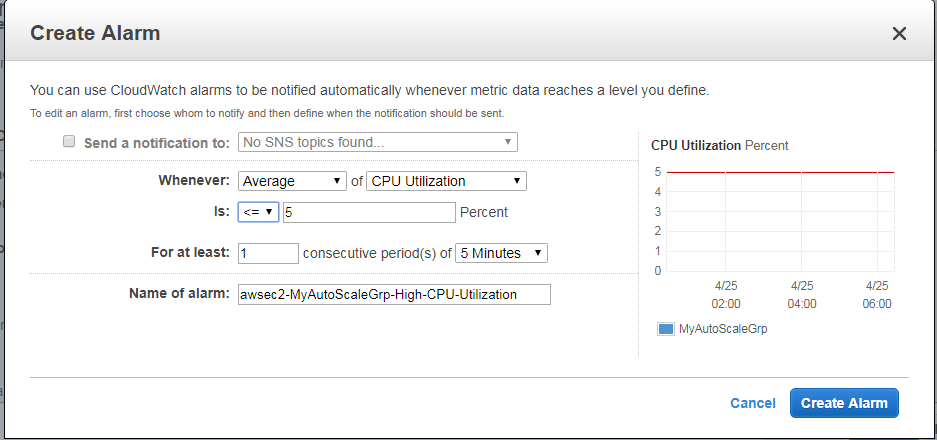


**Create an alarm whenever average CPU utilization reaches >=80% for atleast 1 consecutive periods of 5** **minutes. Click on create alarm.**

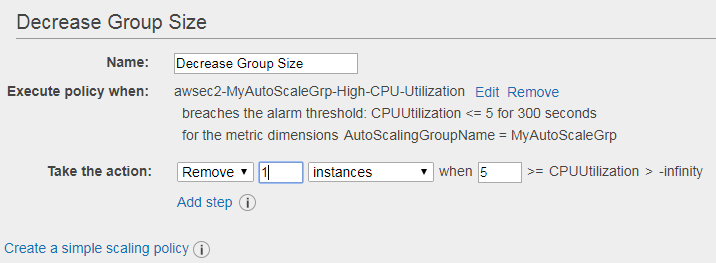


**Add 1 instance when CPU Utilization is <=80 % and > 90%. Add 2 instances when CPU Utilization is <=90** **% and greater than infinity.**

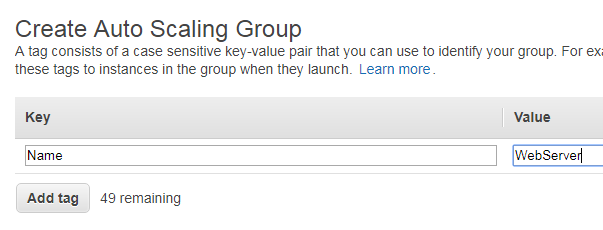


**Under decrease size group create an alarm whenever average CPU Utilization reaches <=5 % for atleast** **1 consecutive periods of 5 minutes** 

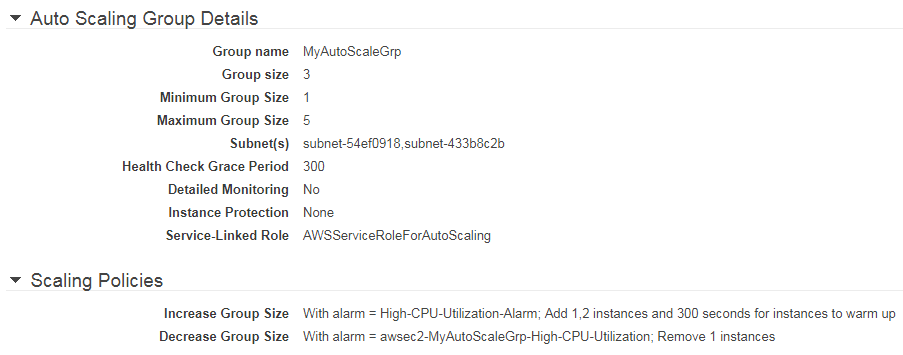
**Remove 1 instance when CPU utilization is <=5%**



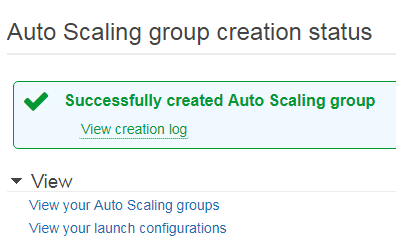
**Give name for the instances created under your auto scaling group**



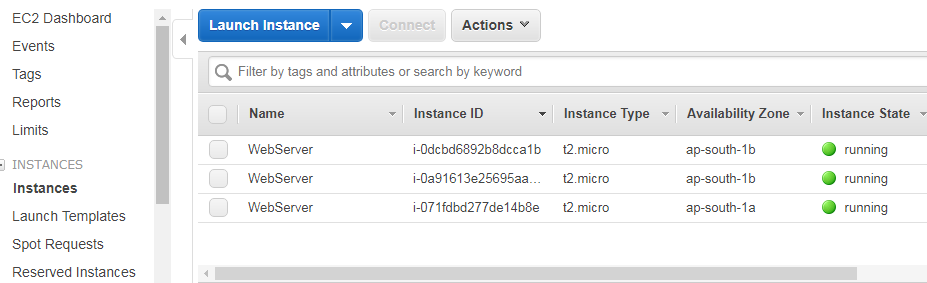
**Review the details and create it.**



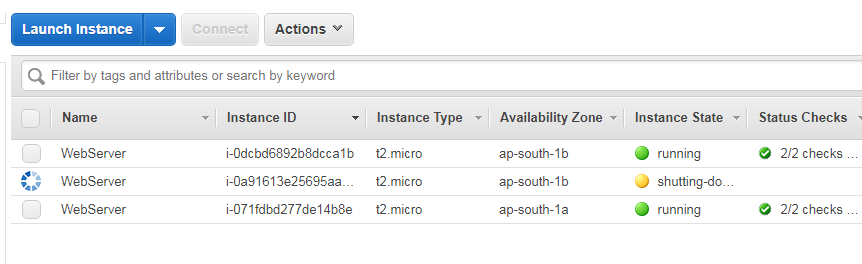
**Auto scaling group has been successfully created.**



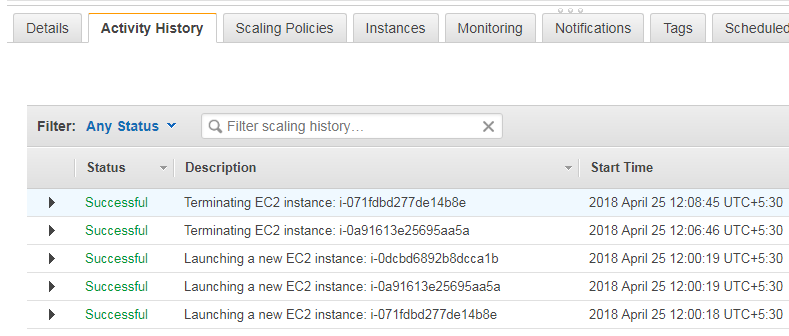
**Three instances are now up and running since your desired number of instances is 3.**

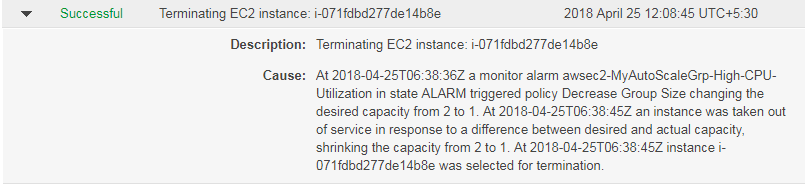


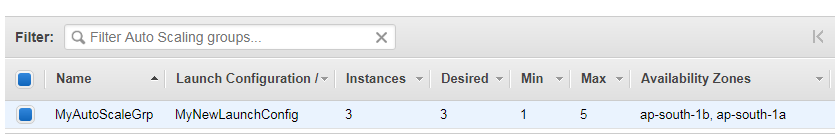
**One of your instance is shutting down due to low CPU Utilization**



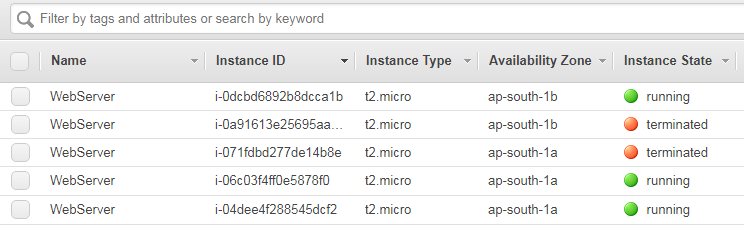
**We can track the progress of instances under Activity history .**



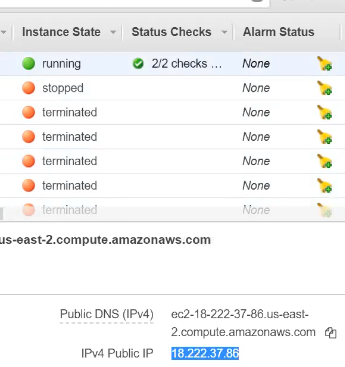




**Since the desired no of instances is 3, 3 of our instances would be running if even one instance got** **terminated due to low CPU utilization or high CPU utilization.**



**Select the IPV4 Public IP of any of the running instances.**



**Give your IP on the browser and check your web page.**

