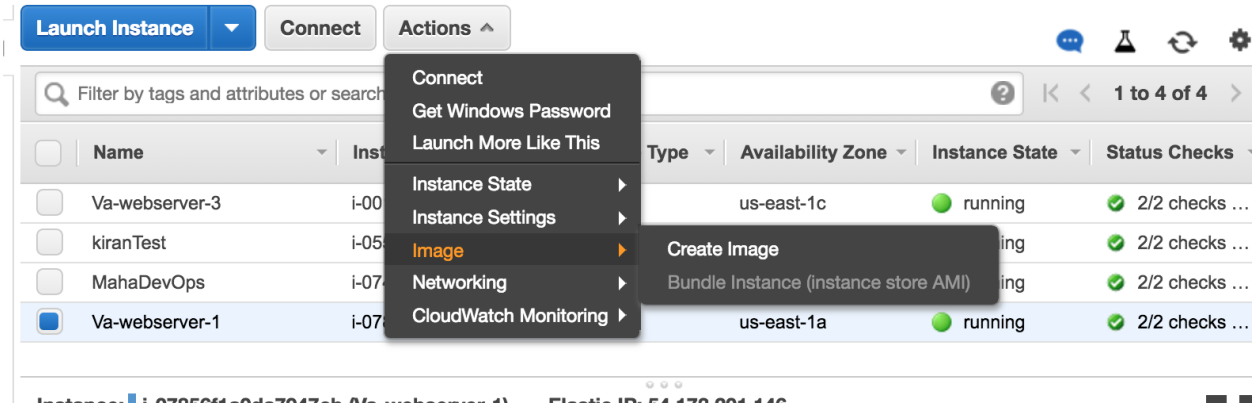
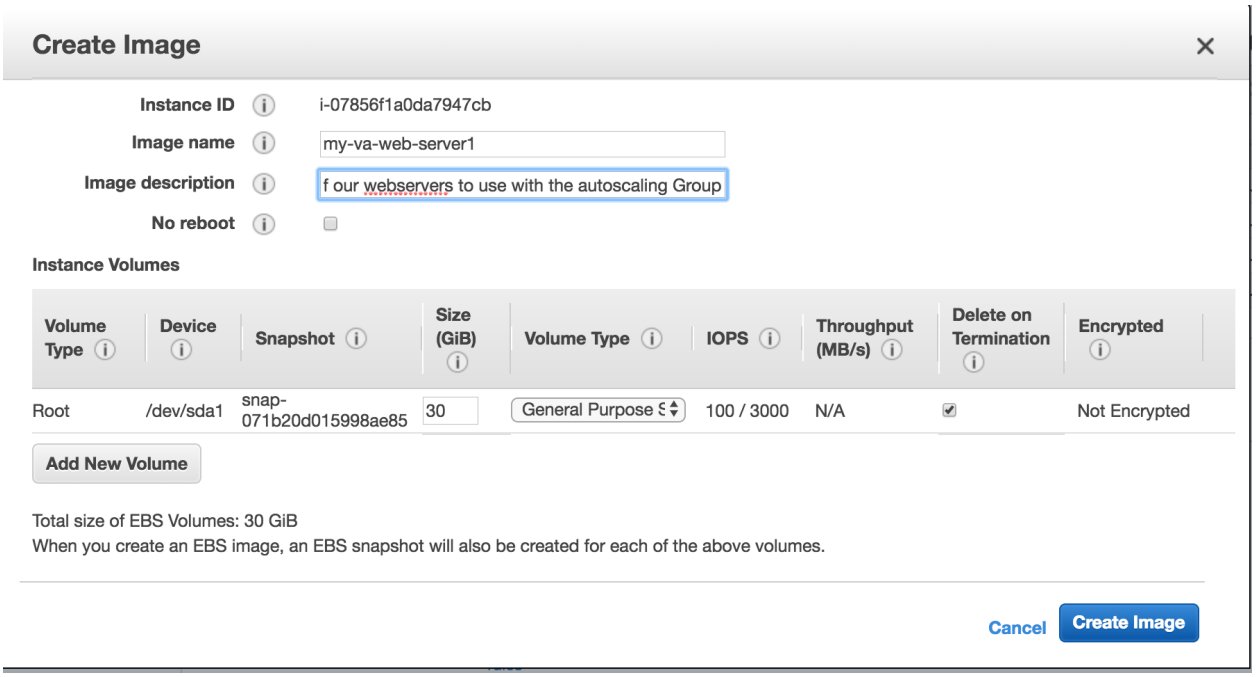
Step 0: Start by a creating a fresh Security Group in our VPC.

*****Important: Use this SG for both the LB and Autoscaling group*****

Step 1: Create an AMI from one of your web servers.Make sure the web server is working(showing the index page when you browse the IP on a web browser)

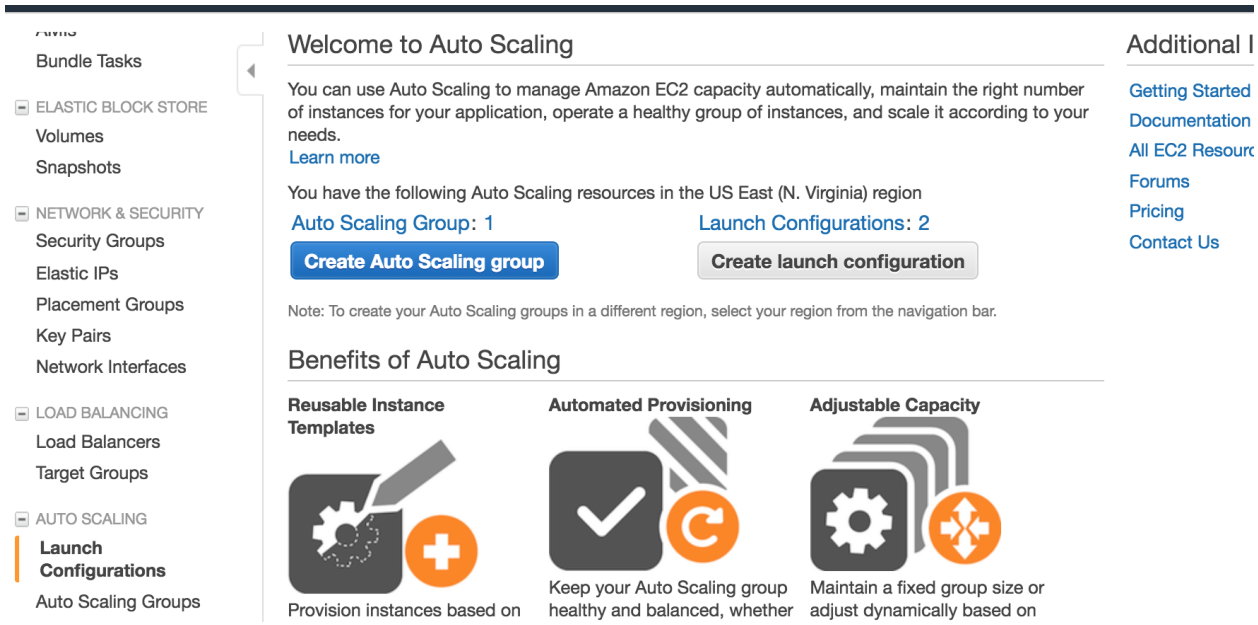


Step2: Give the AMI a name and description and click create Image



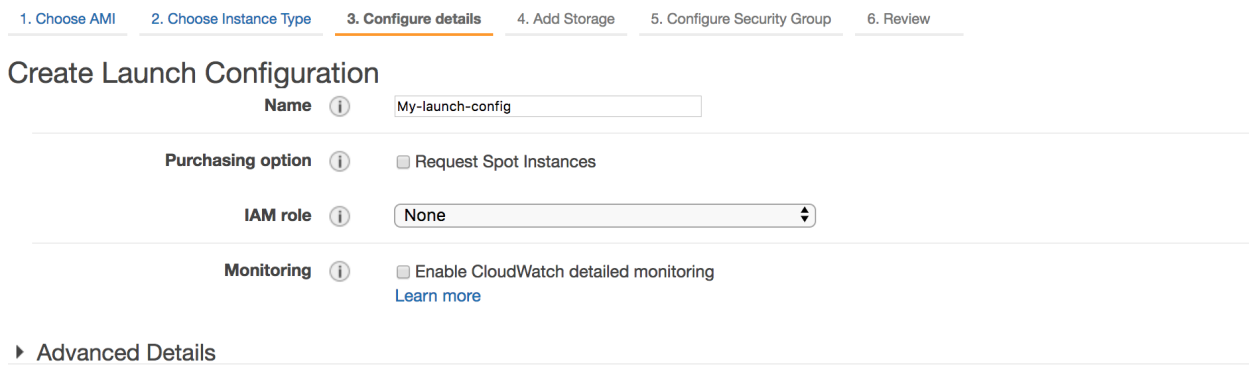
Step 3: Wait until the AMI is created

Step 4: Click on the Autoscaling section on the left navigation Pane. Then select create Launch Configuration

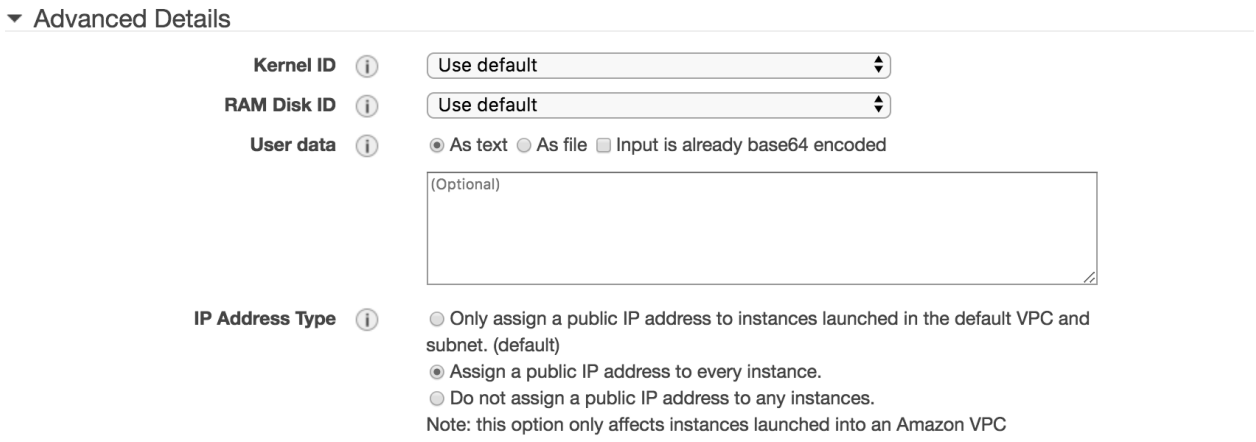


Step 5: Choose My AMI in the left Navigation Pane. Then select your AMI

Step 6: On Page 3 give the launch config a name. Then Click advanced details.

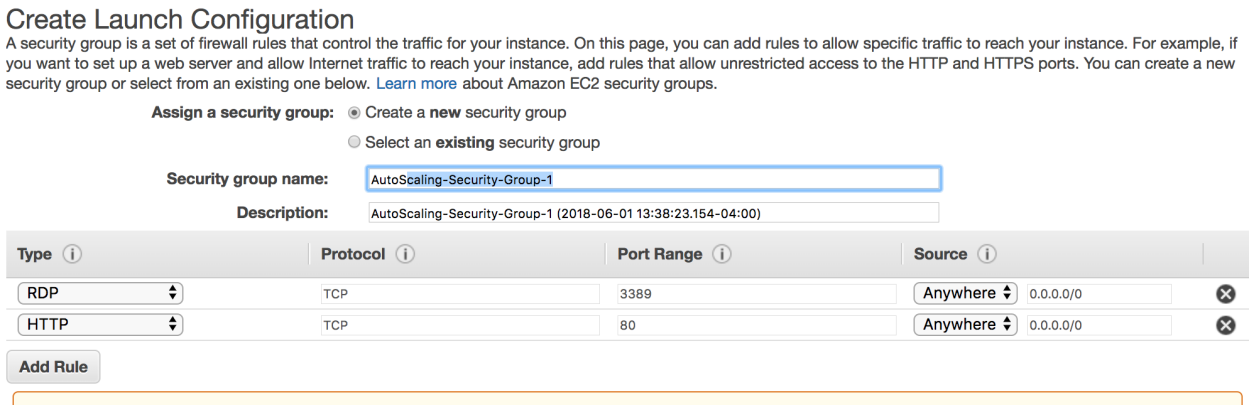


Step 7: Select assign a Public IP to every instance



Step 8: Click Next

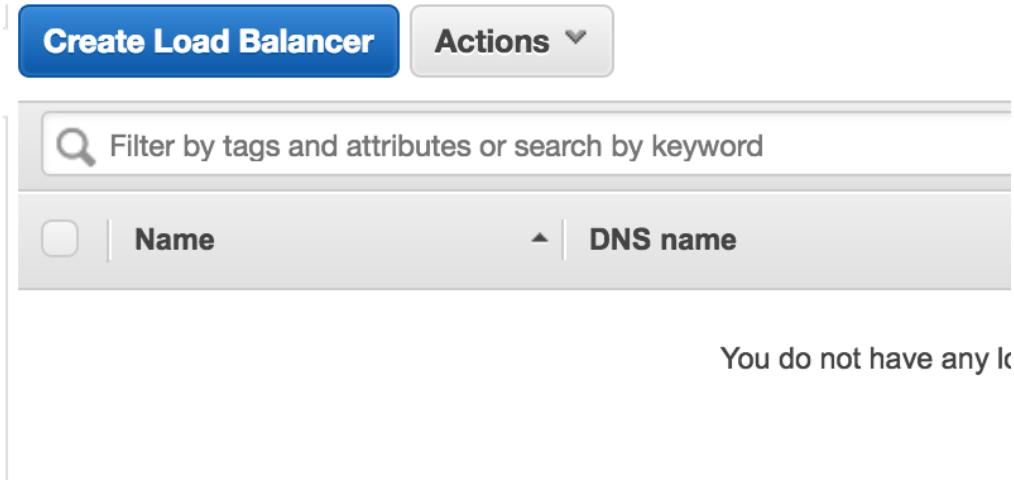
Step 9: Create a new Security Group which comes with RDP and add rule HTTP source 0.0.0.0/0



Step 10:Review and create Launch Configuration

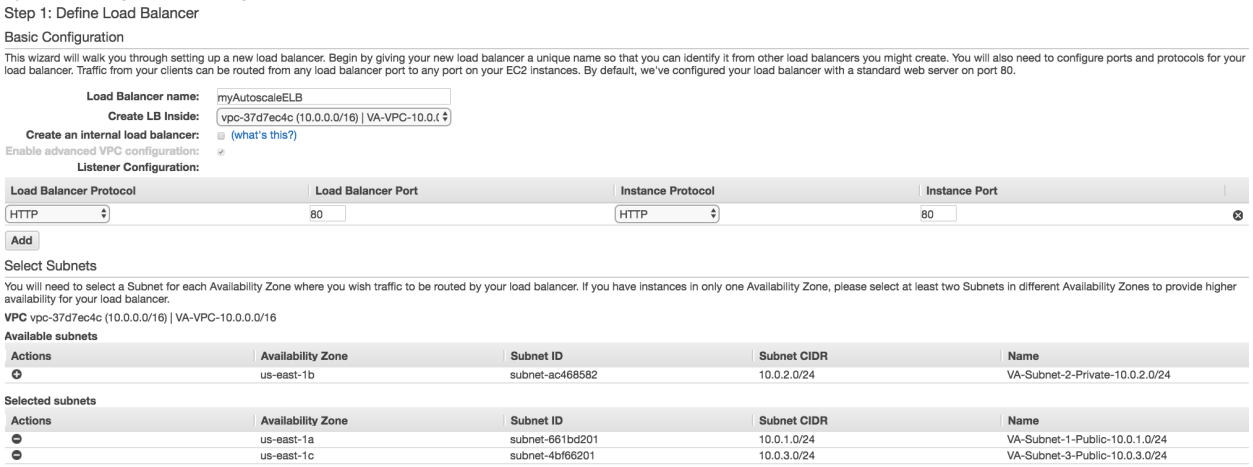
Step 12: Go to the Load Balancer Page

Step 13: Create a load balancer



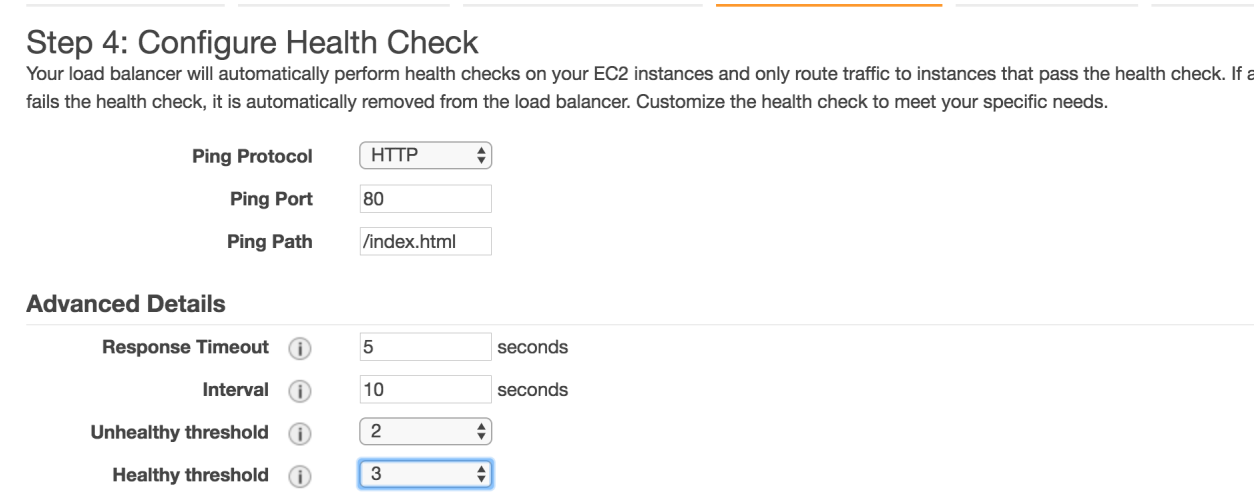
Step 14:
Select the classic Load Balancer

Step 15: Give the ELB a name.Pick the VPC that you created earlier and add the public subnets by clicking the + sign



Step 16:Select a SG on the same VPC and click next

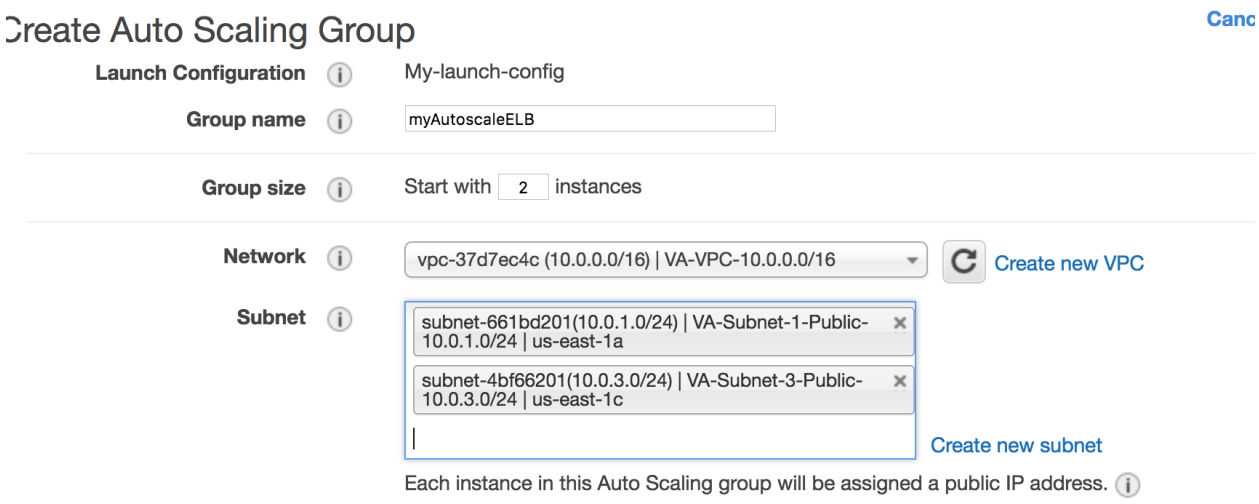
Step 17:



Step 18: ON page 5, don't add any instances. Click next add tags. Tags are optional. Click review and create and Finally click create.

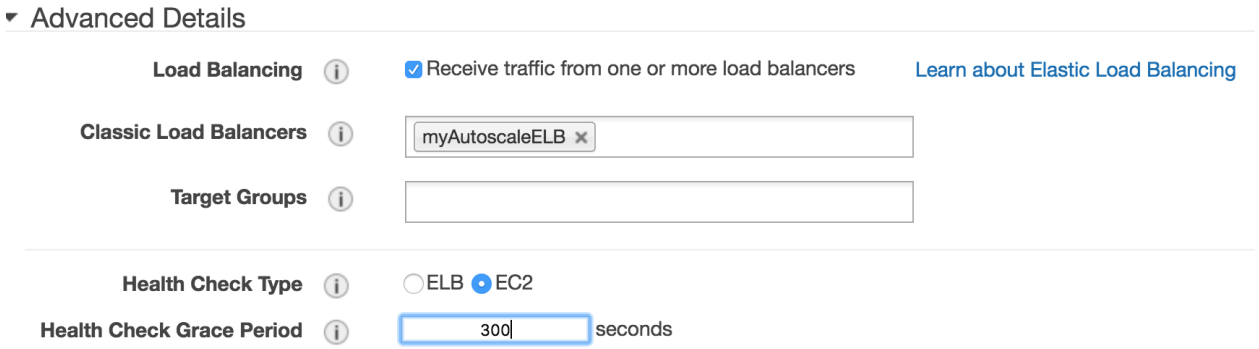
Step 19: Select the Launch Config and click on create autoscaling group

Step 20: Give the autoscaling group a name. Select 2 for no of instances. Select the VPC we created earlier. Then select the public subnets.

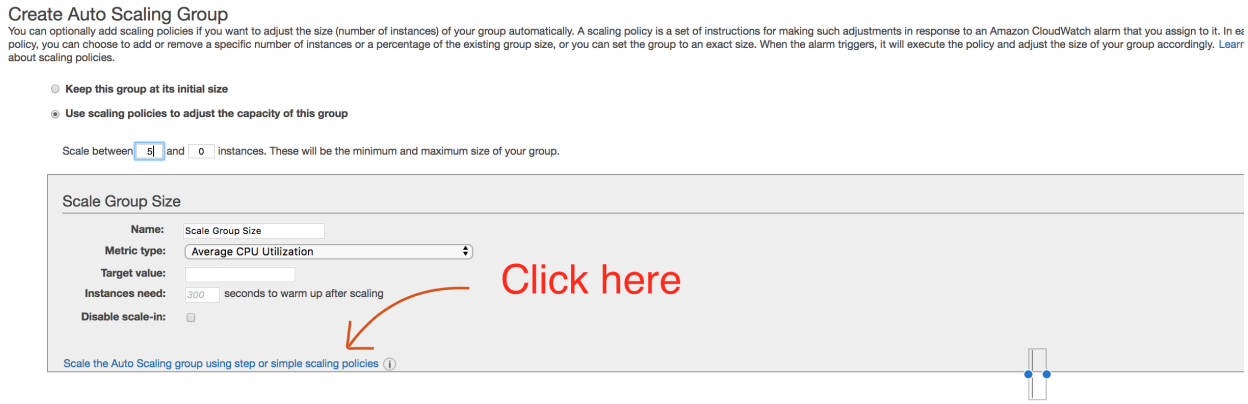


Step 21: Click on Advanced details

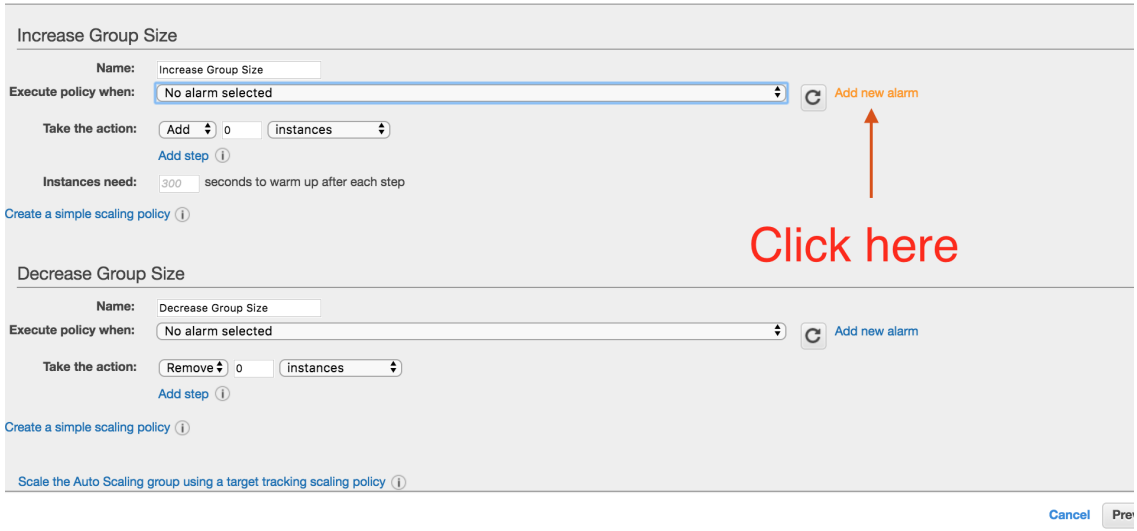
Step 22: Make sure you select the receive traffic from one or more load balancers and select the Classic load balancer we created earlier.



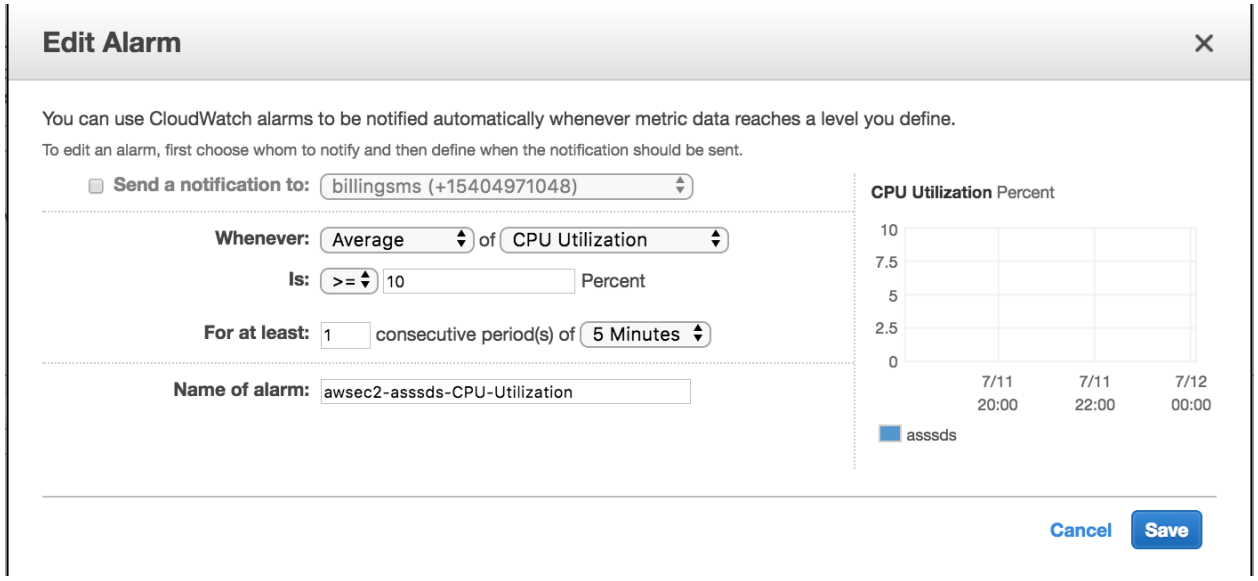
Step 23: Click Configure Scaling policies



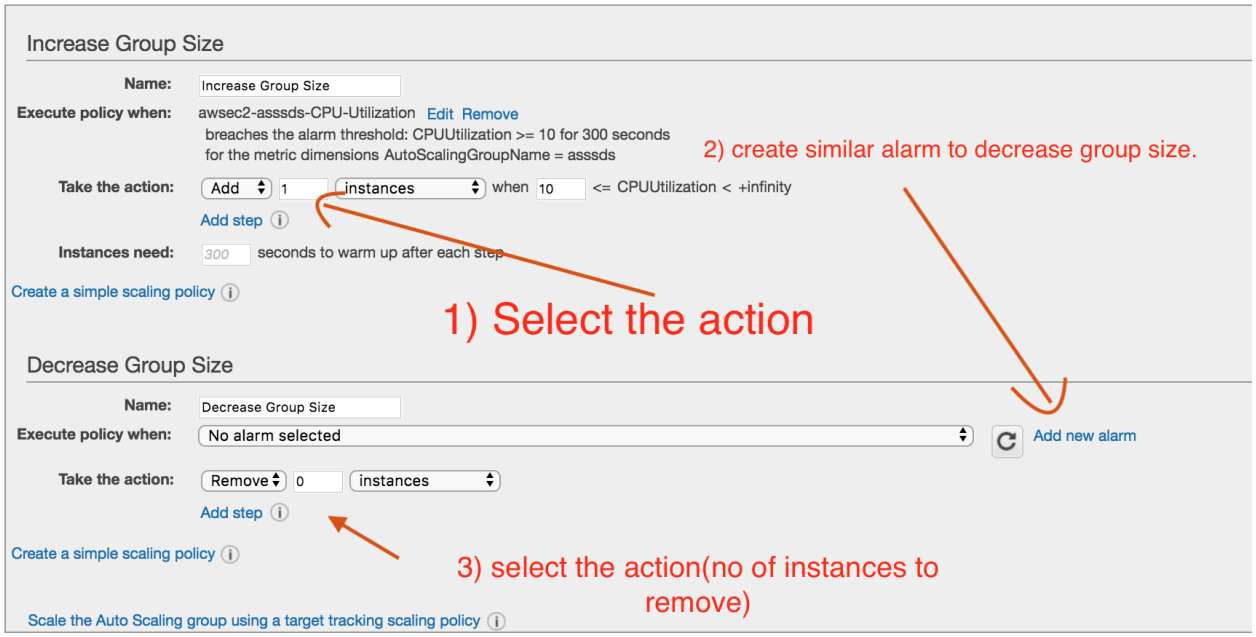
Step 24: Create an alarm for increasing and decreasing instance size. First let's setup the increase group size settings.

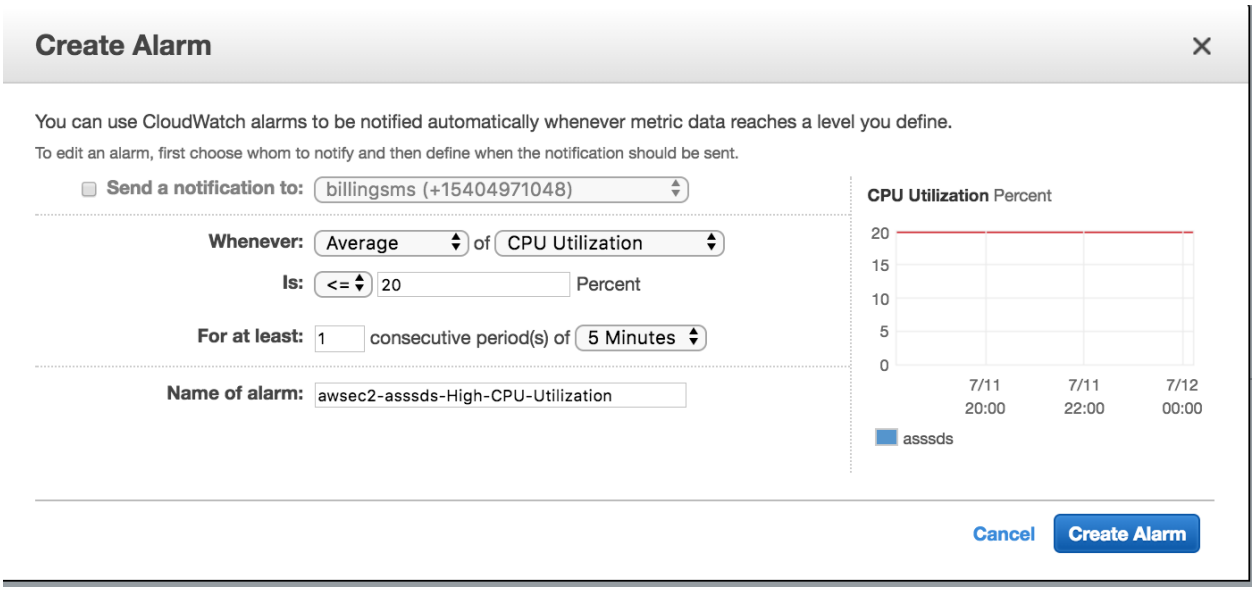


Then a popup window for setting up the alarm will show up. Select a setting like this and click save.



Step 26: Repeat similar step for decreasing the group size and take an action



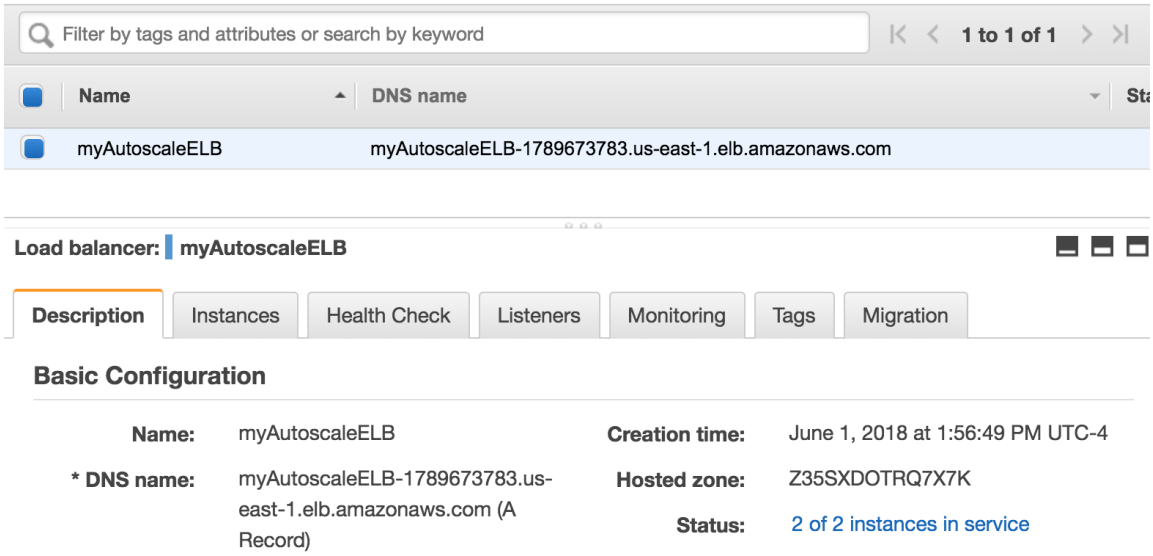


Step 27: Click Next Configure Instances→ Click Next again ---> Provide Tags(makes things easier to distinguish)

Click next until you create the auto scaling group.

Step 28: Go to the Load Balancer Page. Copy the DNS name and paste it in a browser.

You should see “Hello from VA web server 1”



Step 27: Terminate both EC2 instance and see what happens.

**they should come back up.

Step 28: Delete Autoscaling Group(Not launch config) to delete the Autoscaling group. This way the EC2 instances will be deleted forever and new ones won't be provisioned again.