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# **Assessment**

# **Autoscaling and LoadBalancer**

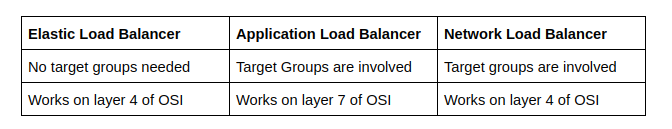
Trainee Name : Aditya Upadhyay

Newers ID : 3978

Mentor Name : Tarun Saxena

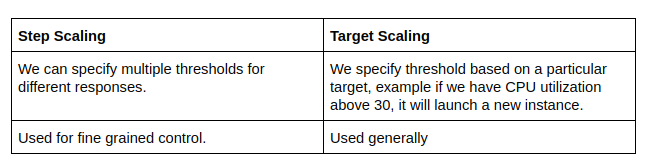
College : UPES

1.Differences between ELB, ALB, and NLB. Where will you use which one?

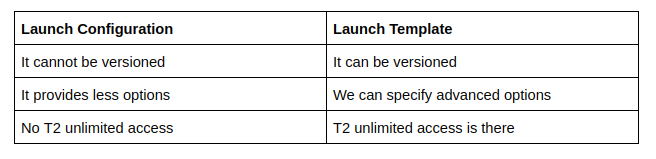
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* If we need to redirect loads on EC2 classic instances or on individual instances, use ELB
* If we need to redirect traffic on the basis of instances, IP’s and Lambdas or we need to load balance HTTP and HTTPS traffic, or we need to redirect load based on hosts and paths use ALB.
* If we need to redirect TCP traffic , use NLB.

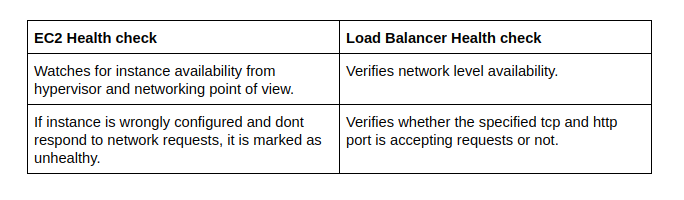
2.Differences between step scaling and target scaling.

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3.Differences between Launch configuration and launch template.

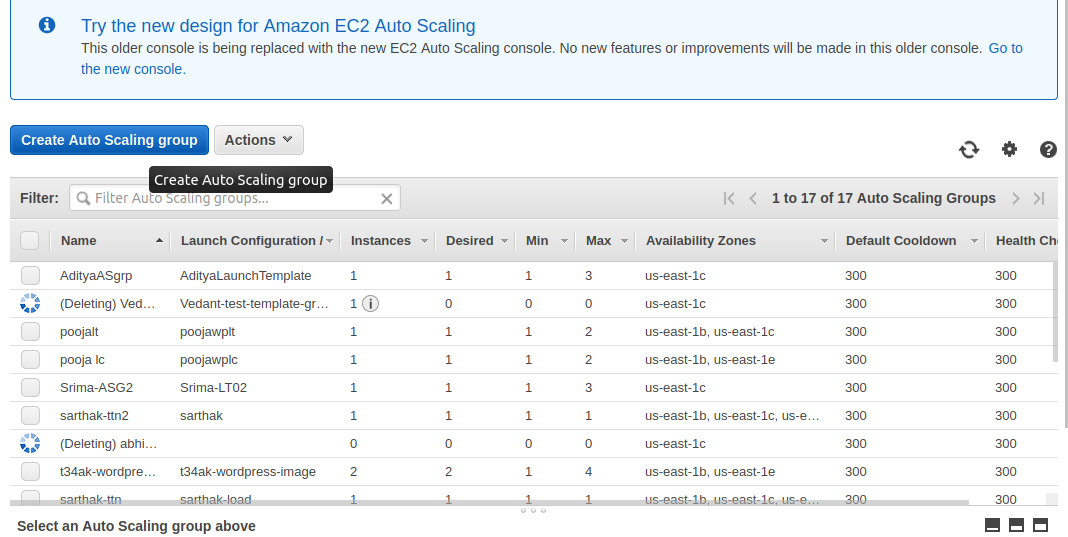
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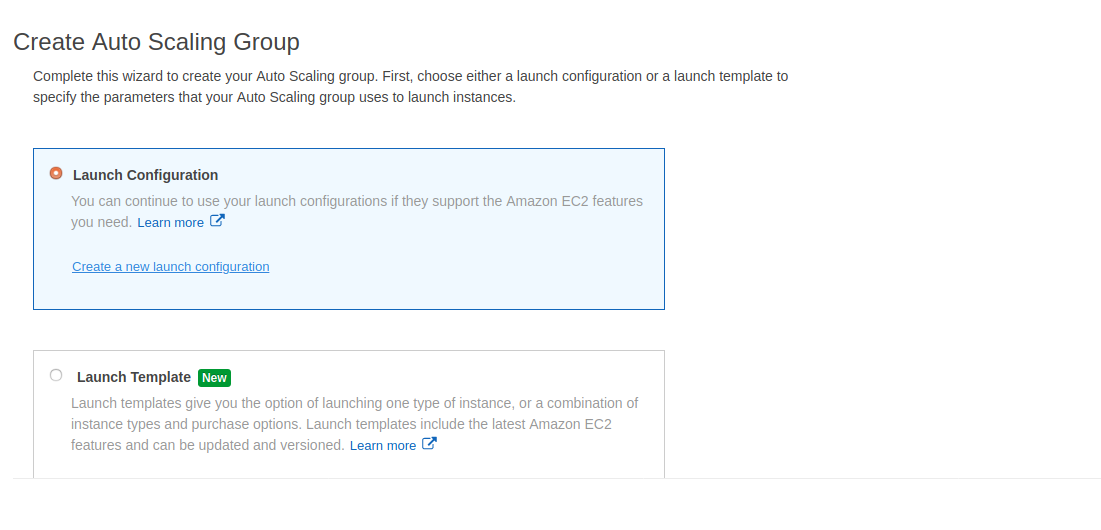
4.Differences between EC2 healthcheck and load balancer health check

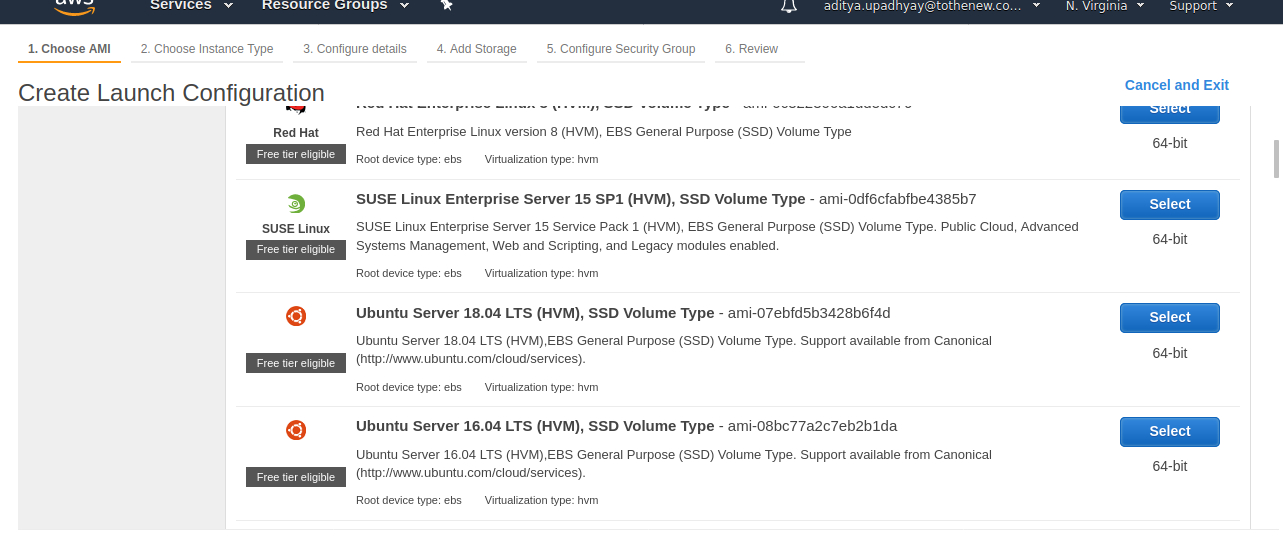
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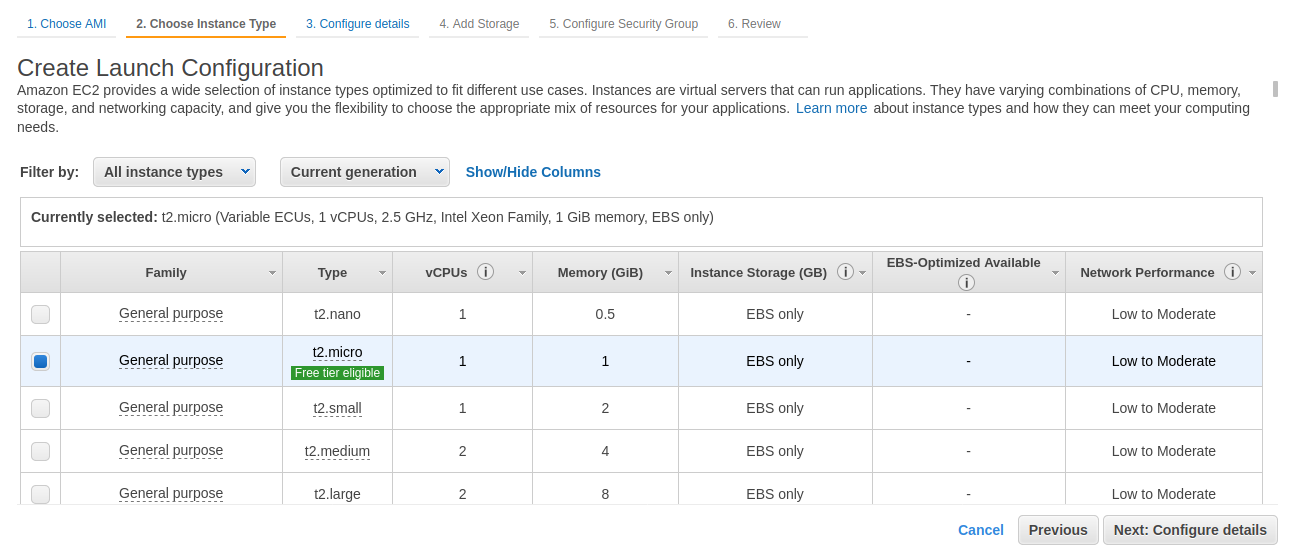
5.Create 2 auto-scaling groups with

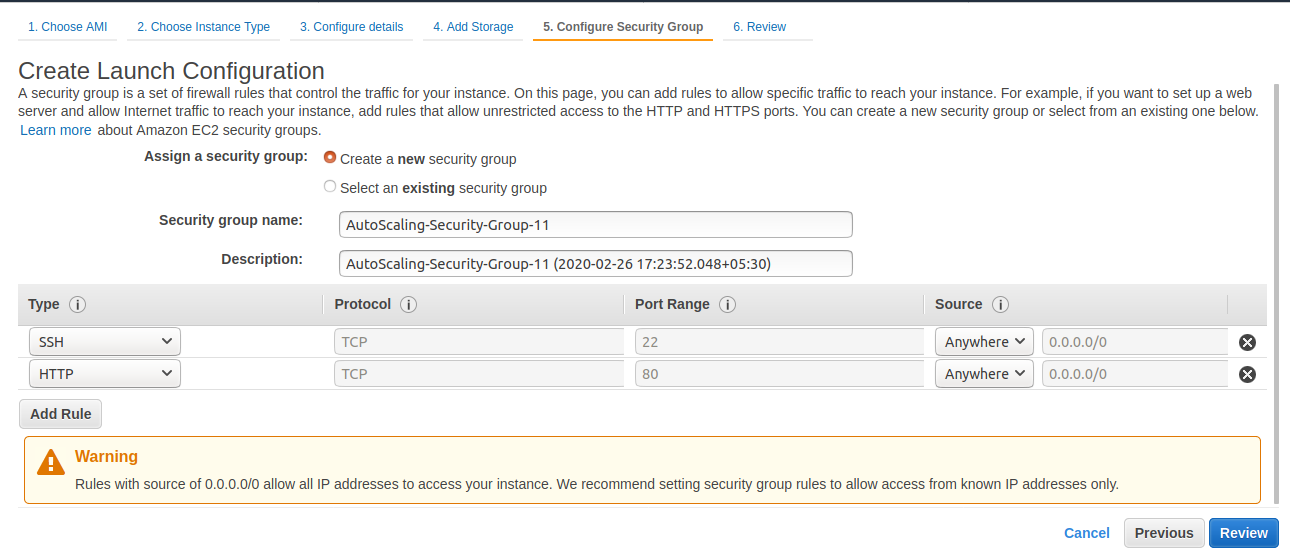
* launch configuration and

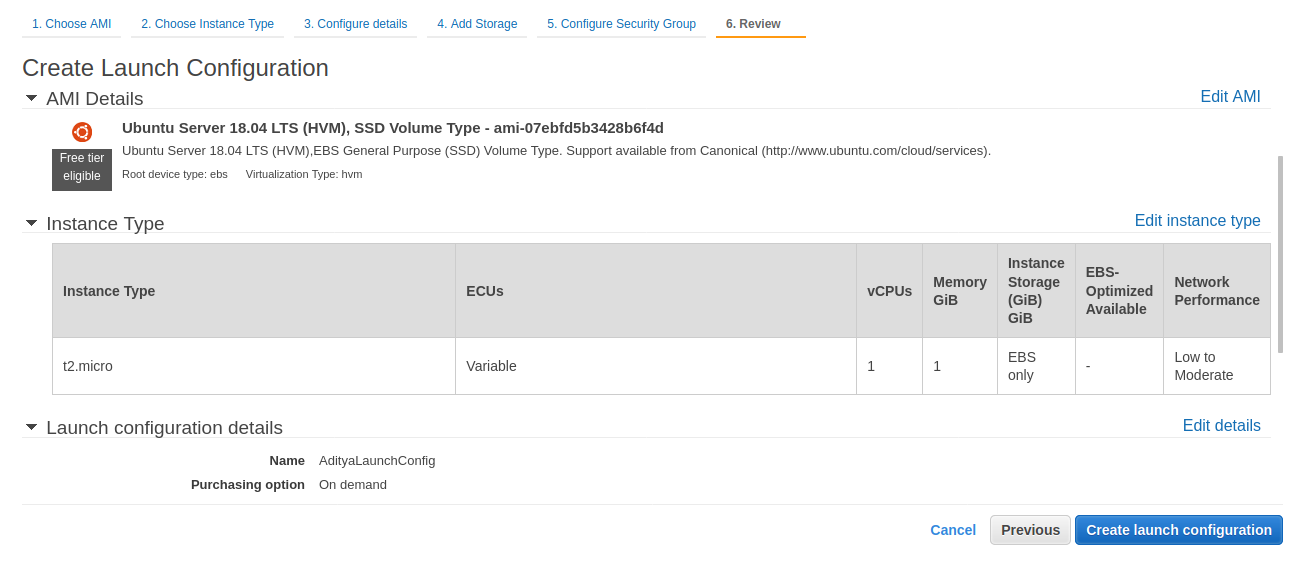


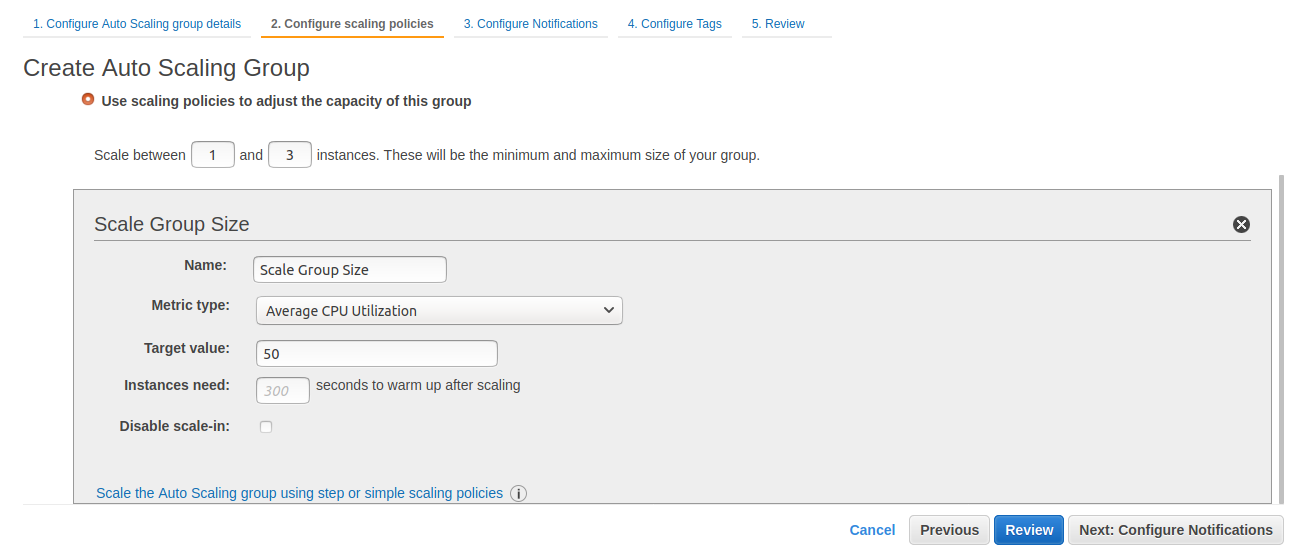


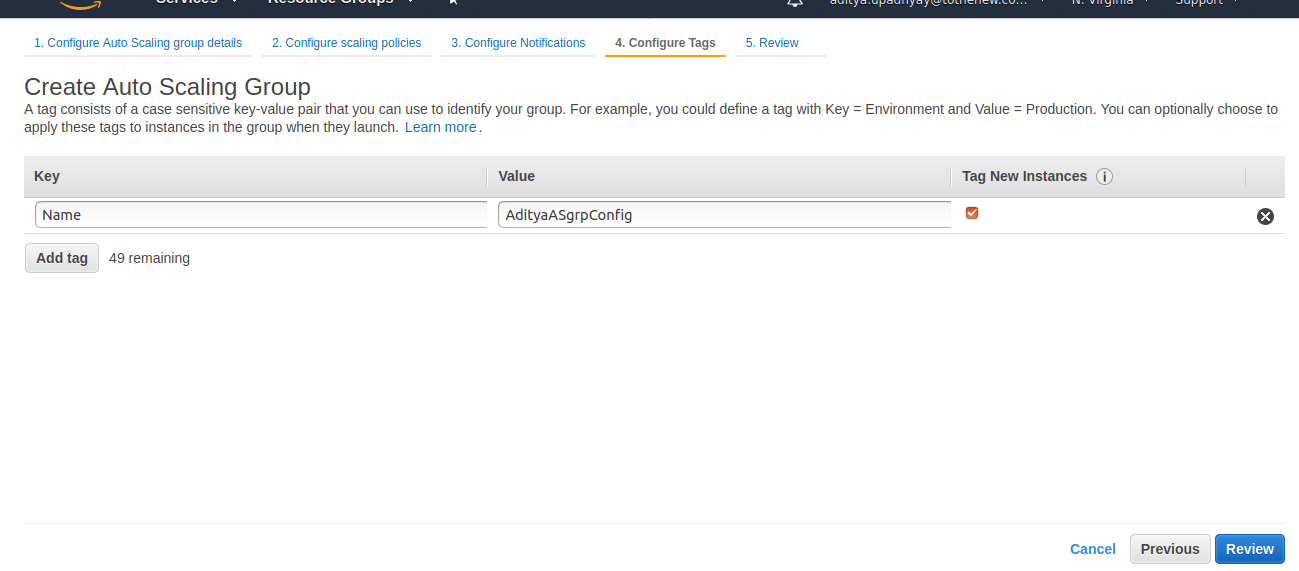


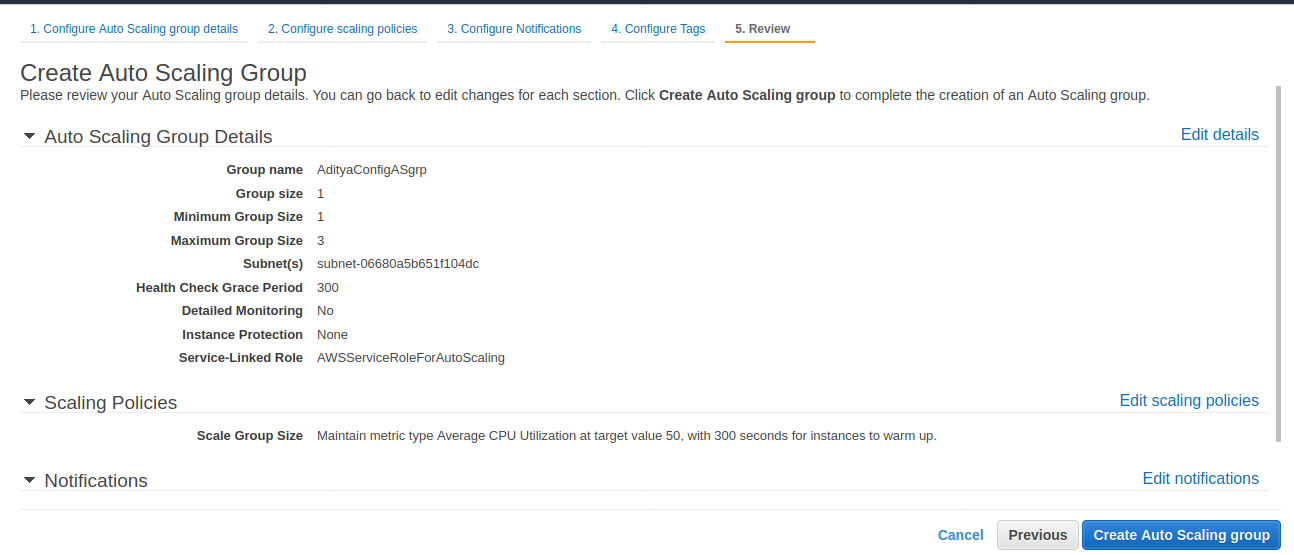


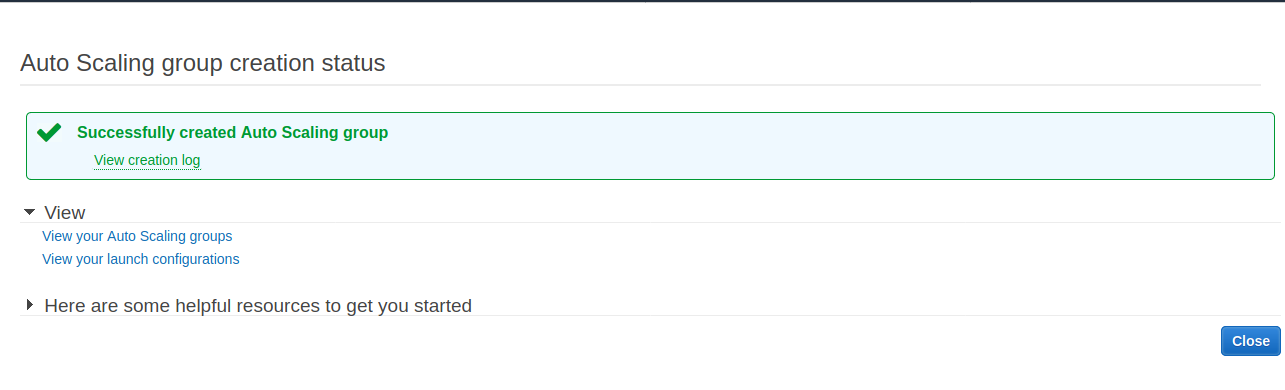




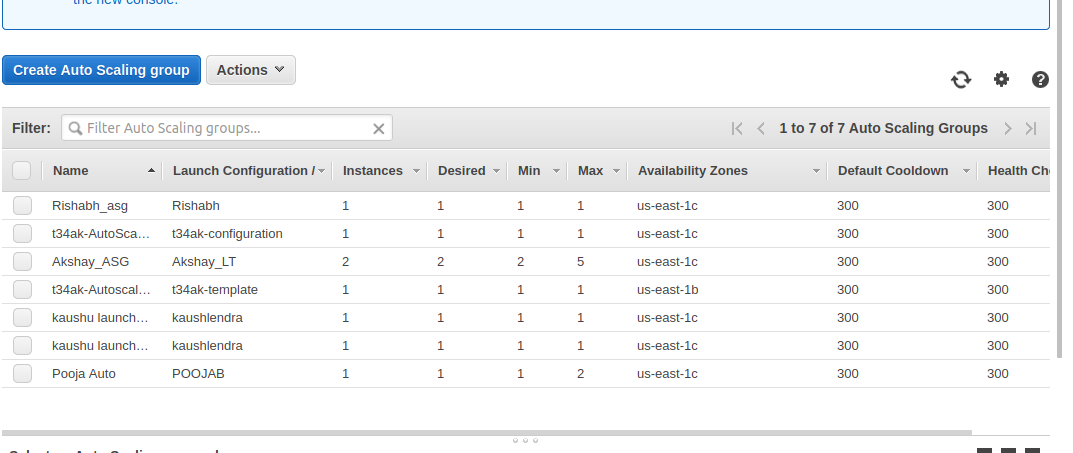


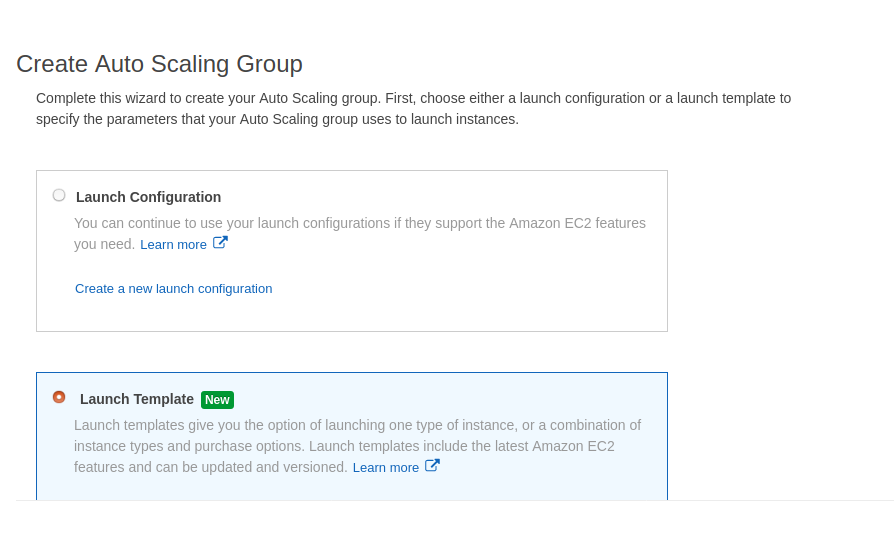


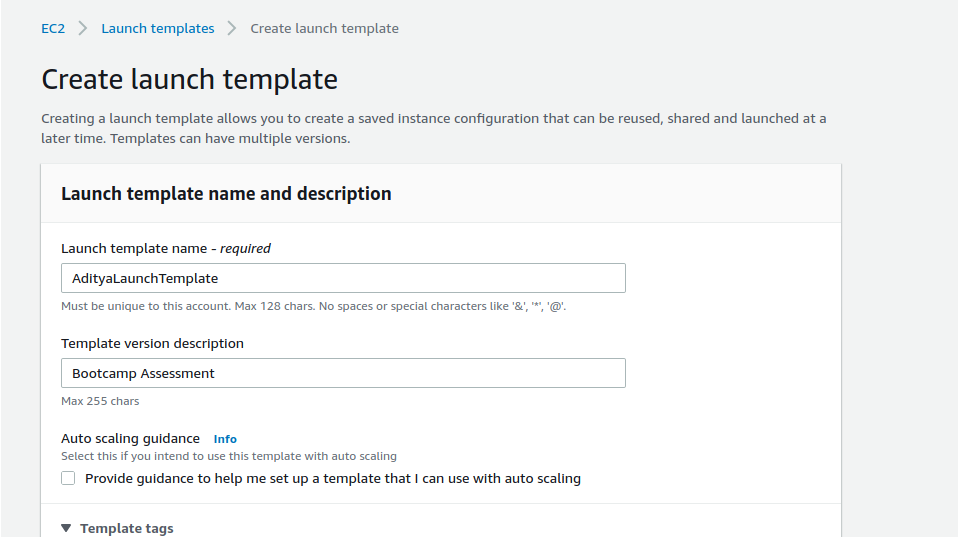


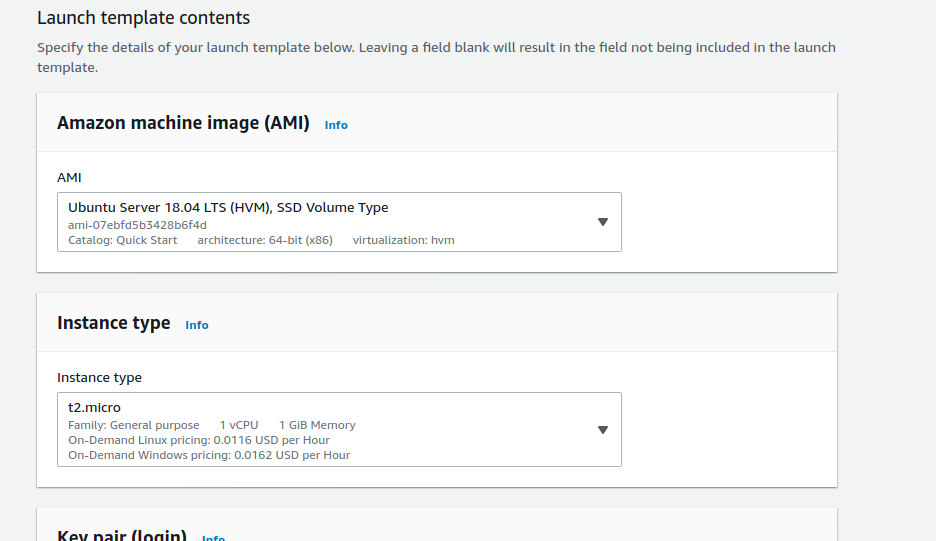


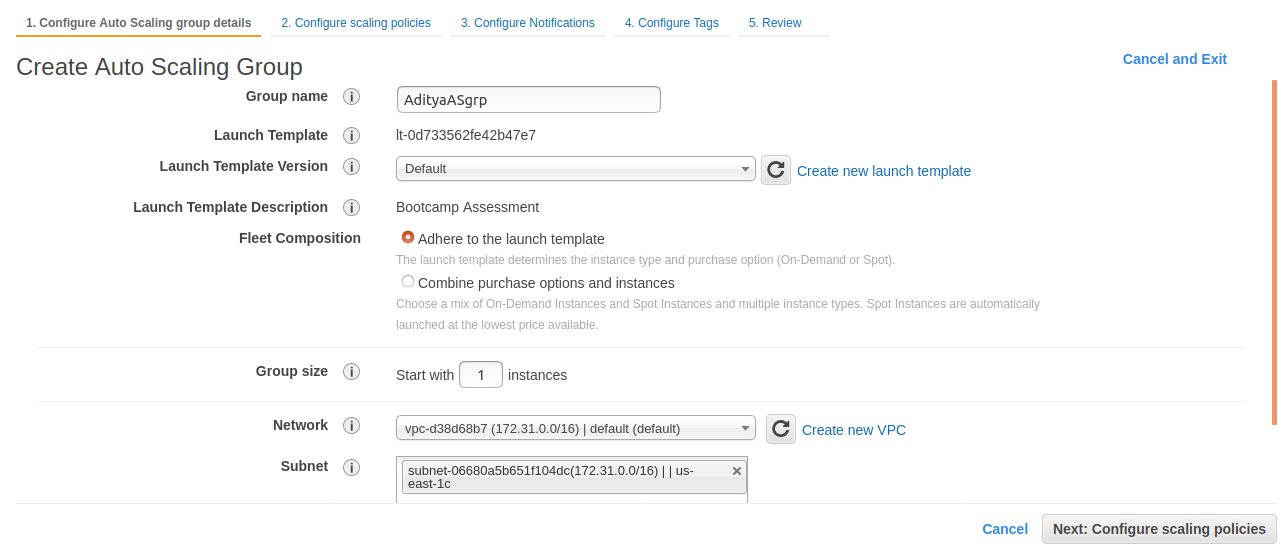
* launch template

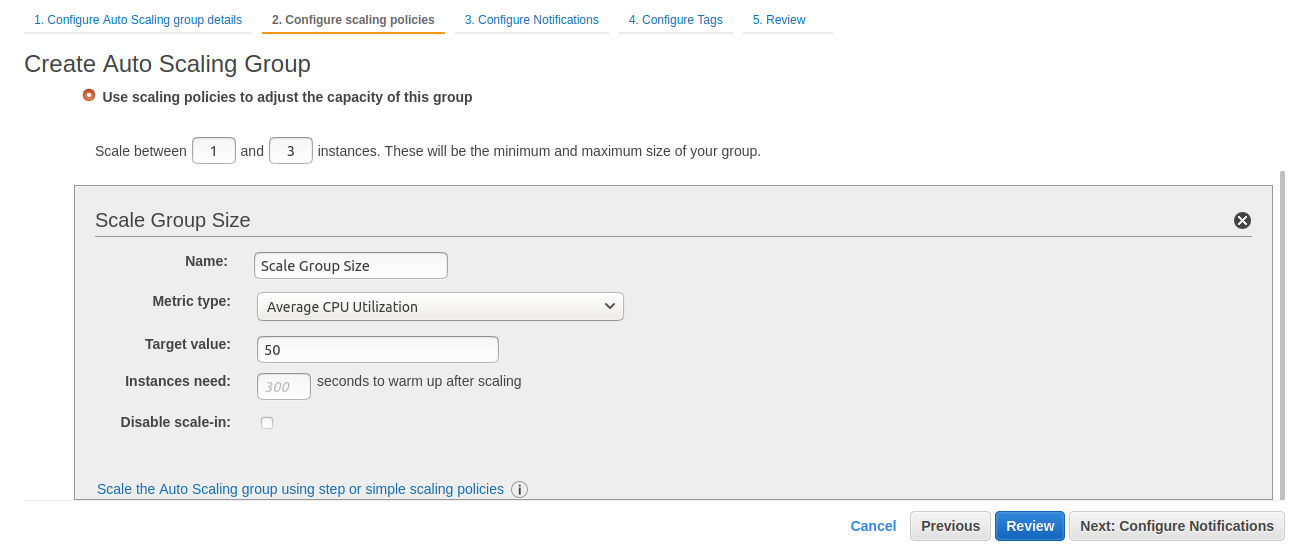


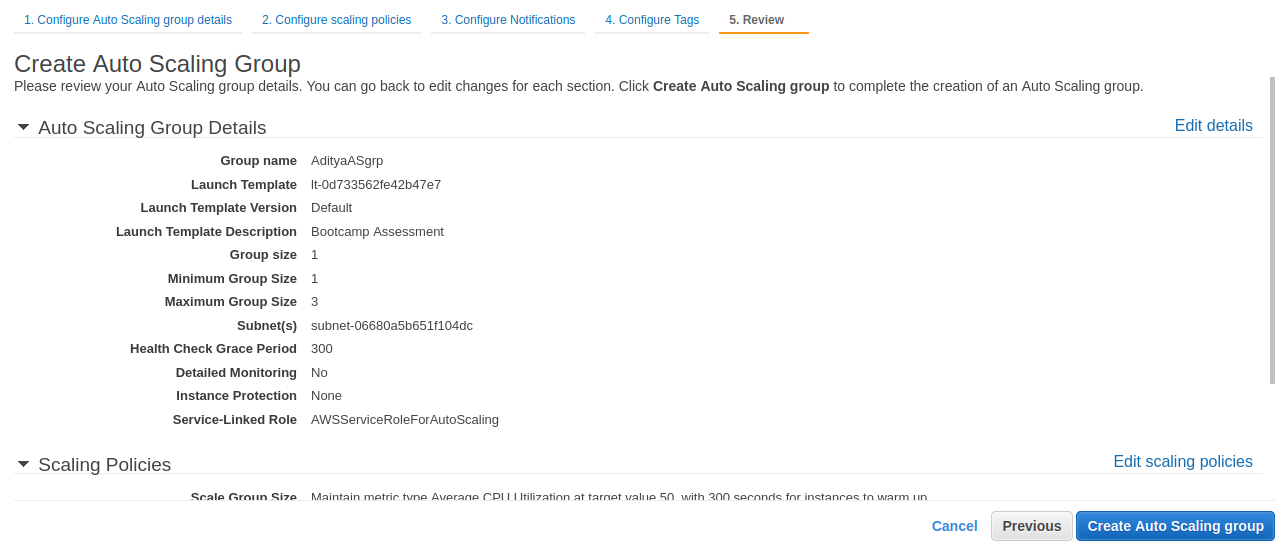


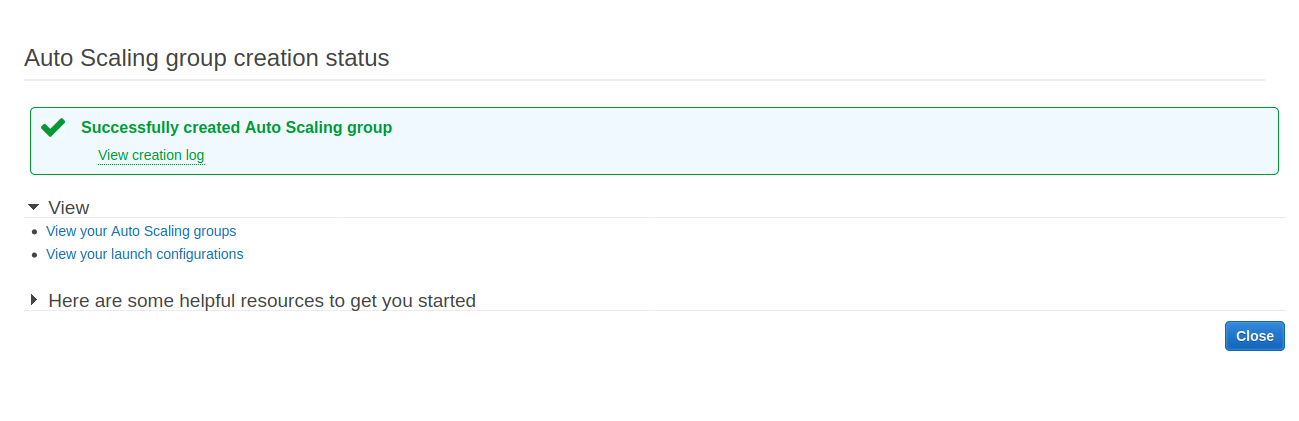




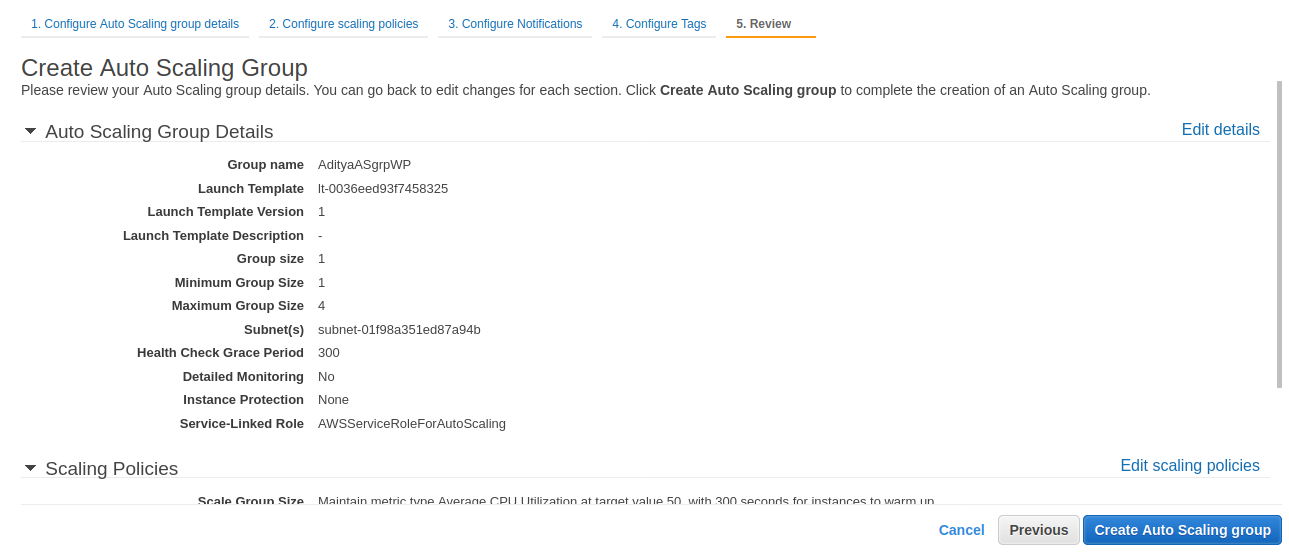


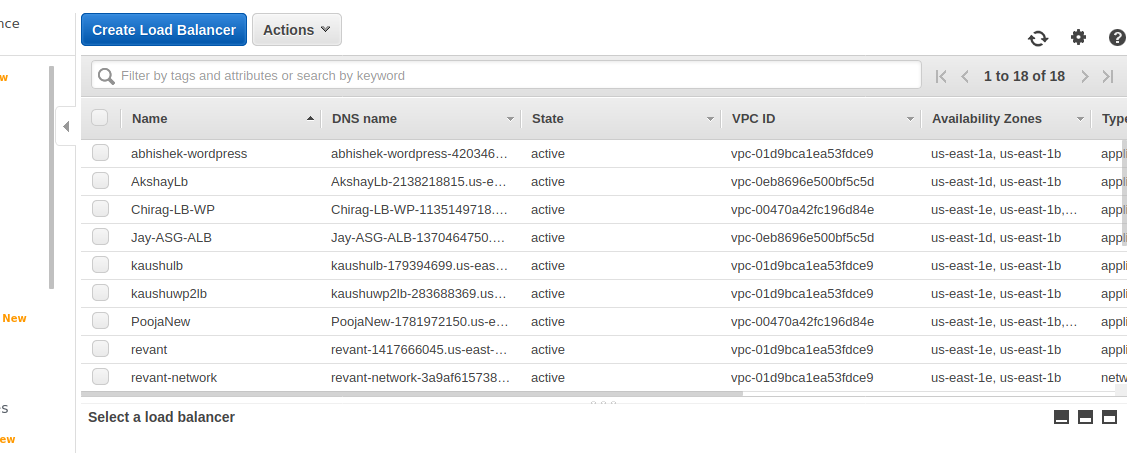


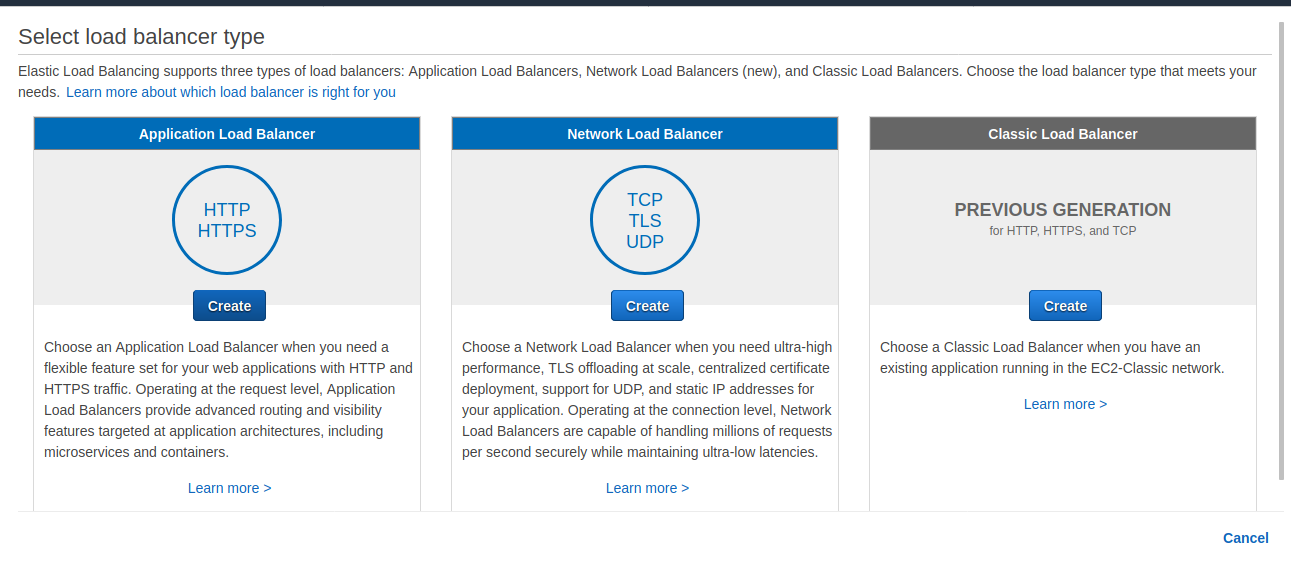


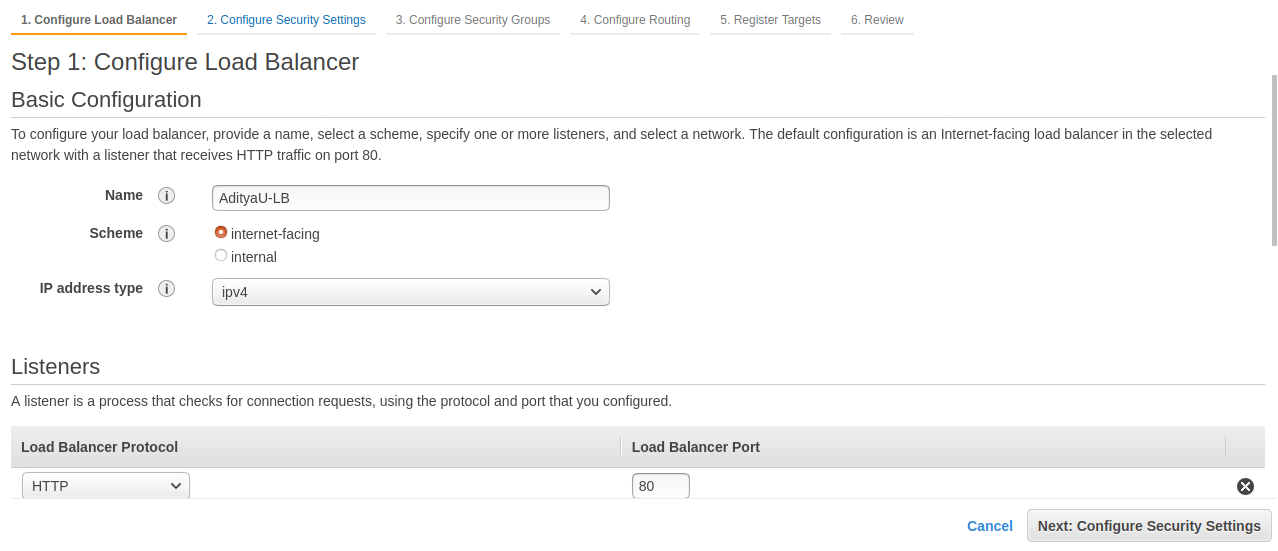


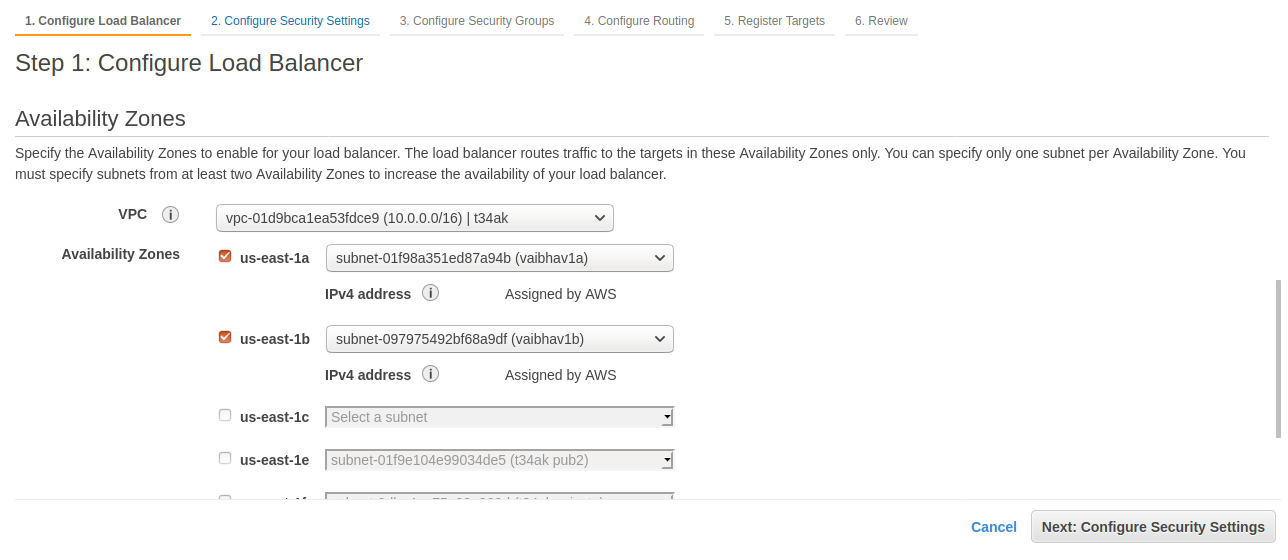
6.Setup autoscaling Wordpress application with the Application load balancer. Auto-scaling should be triggered based on CPU usage of EC2 instances.

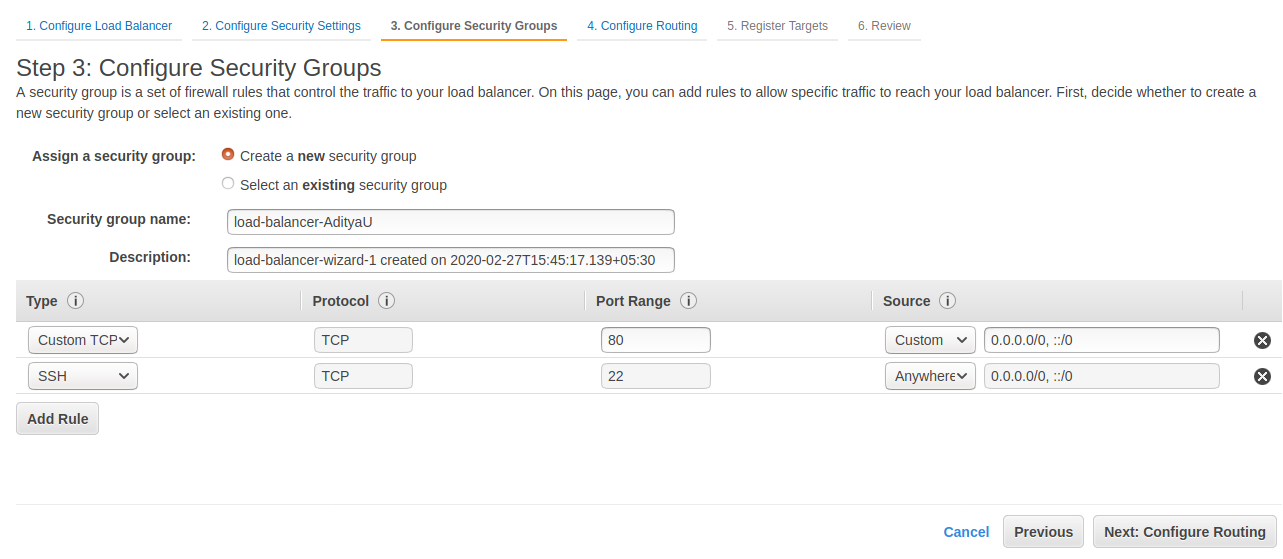


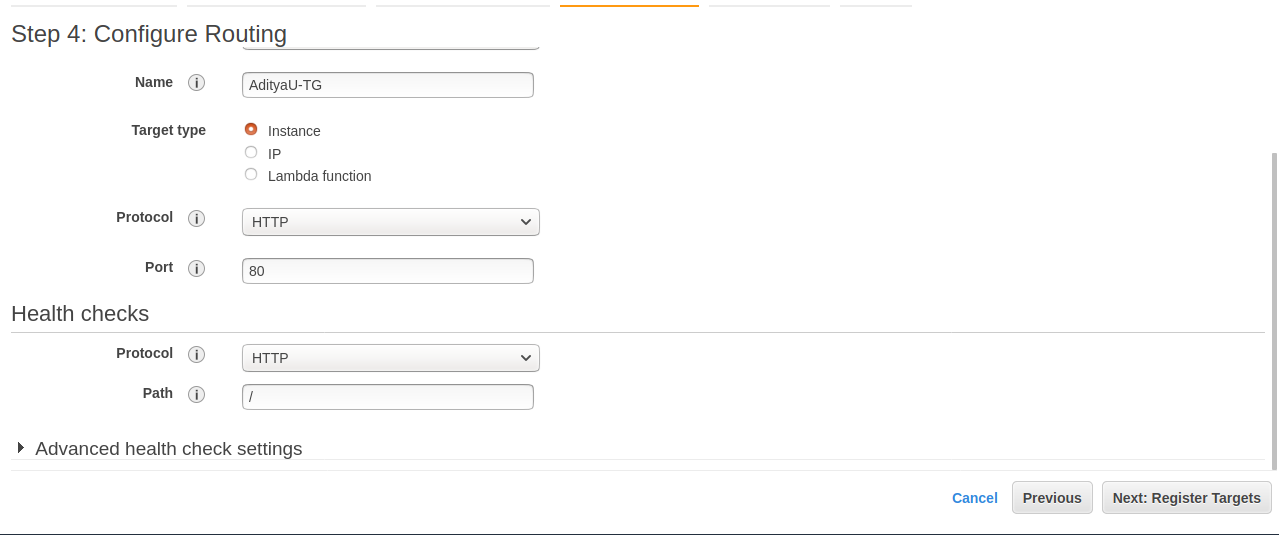


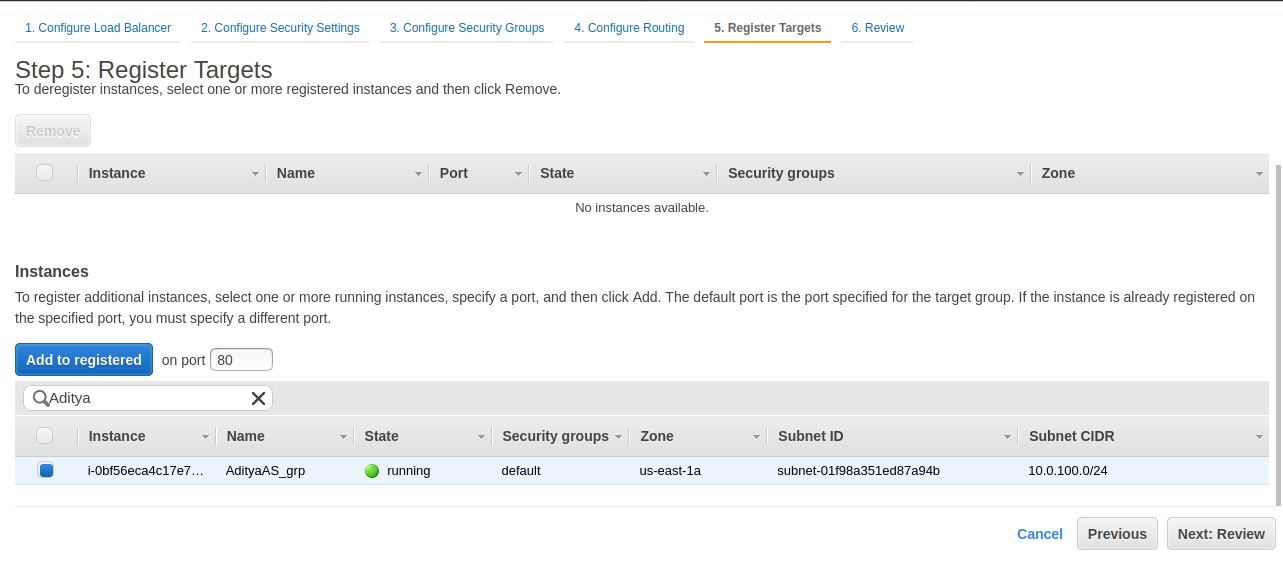


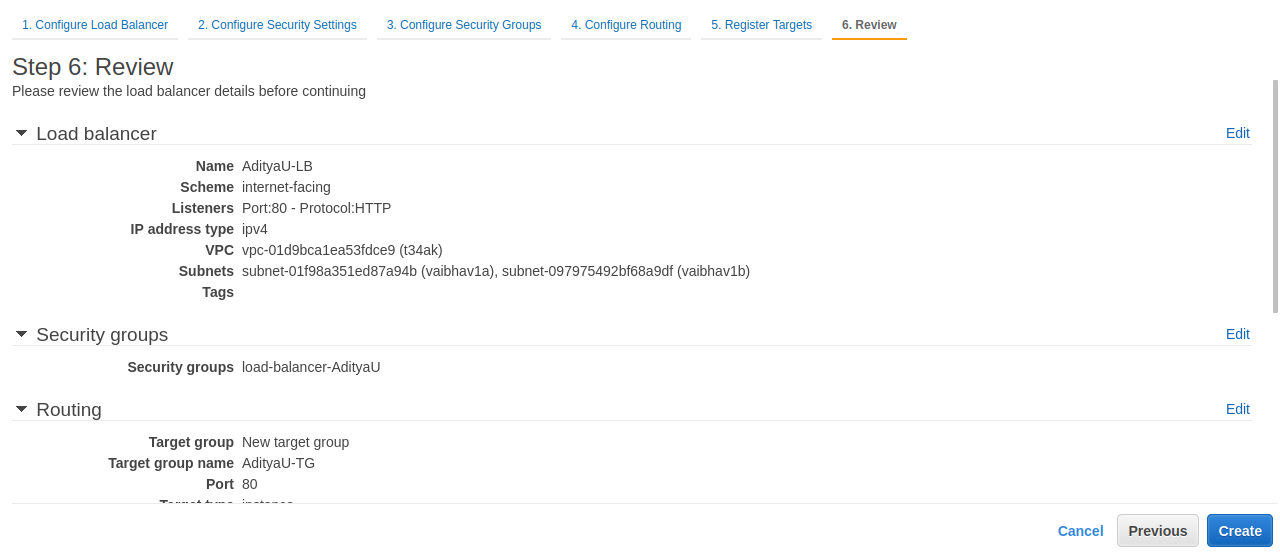


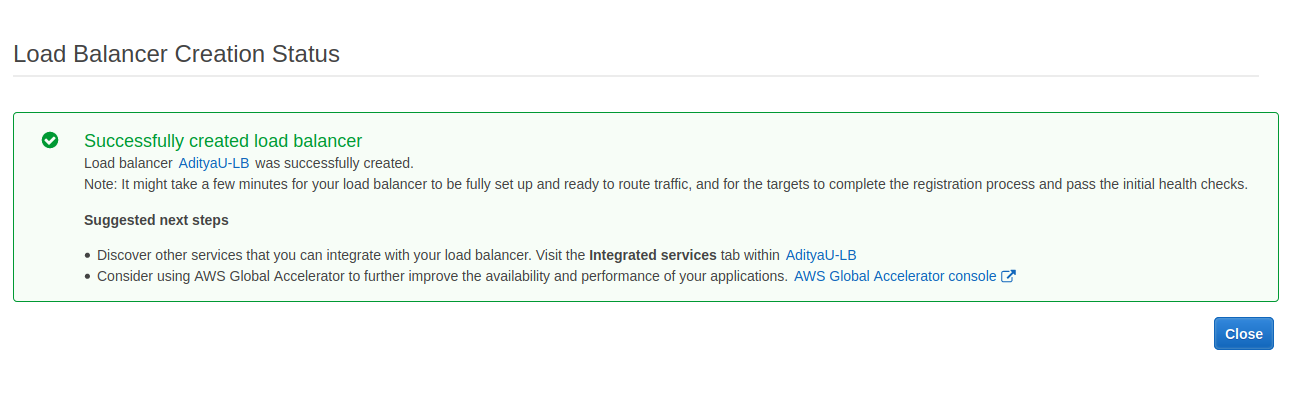


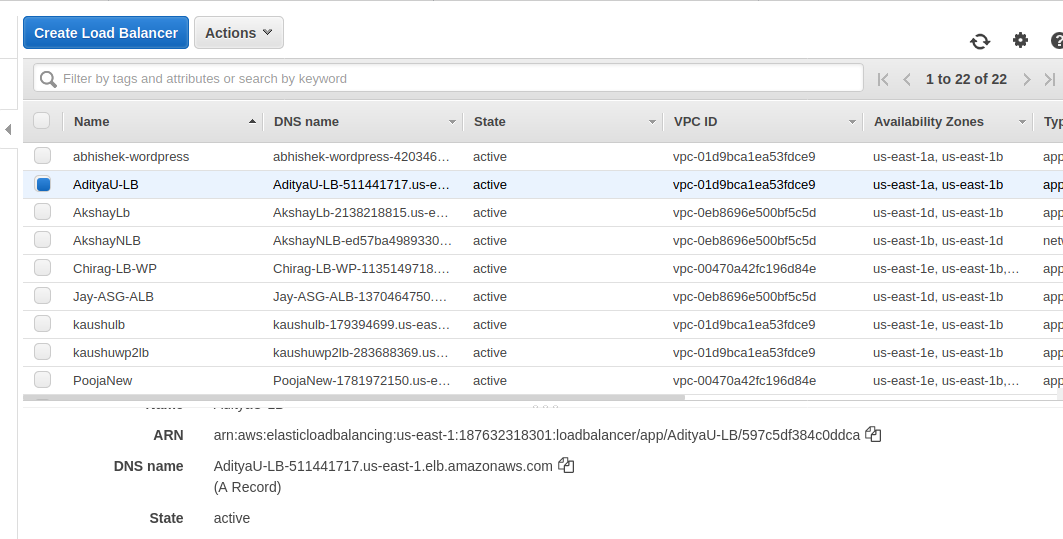


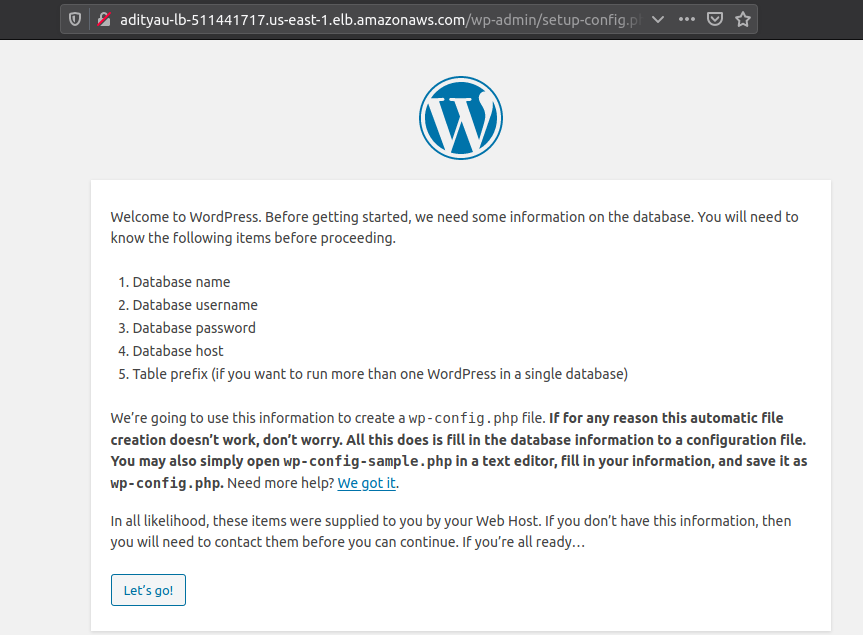




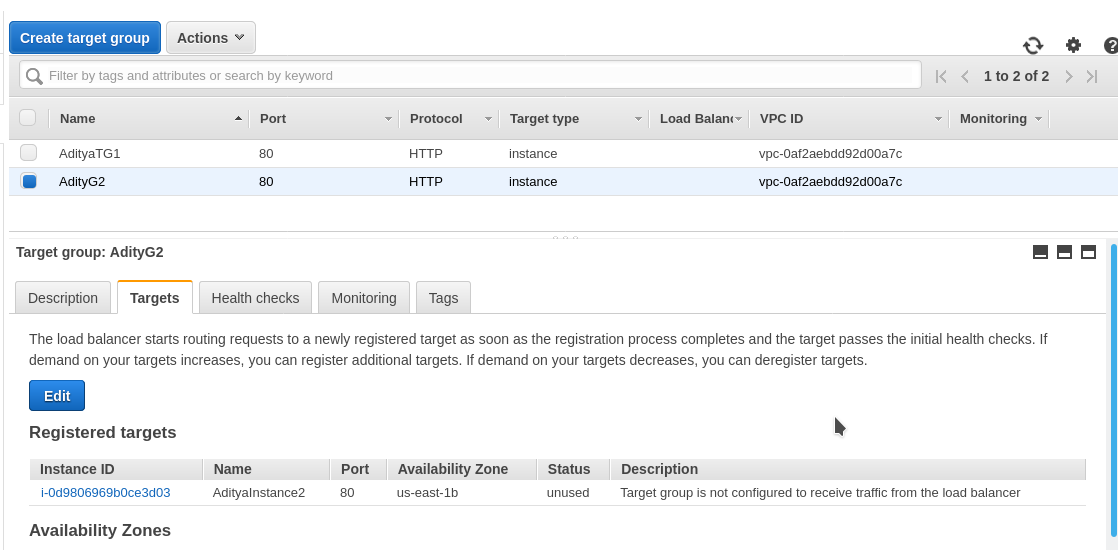


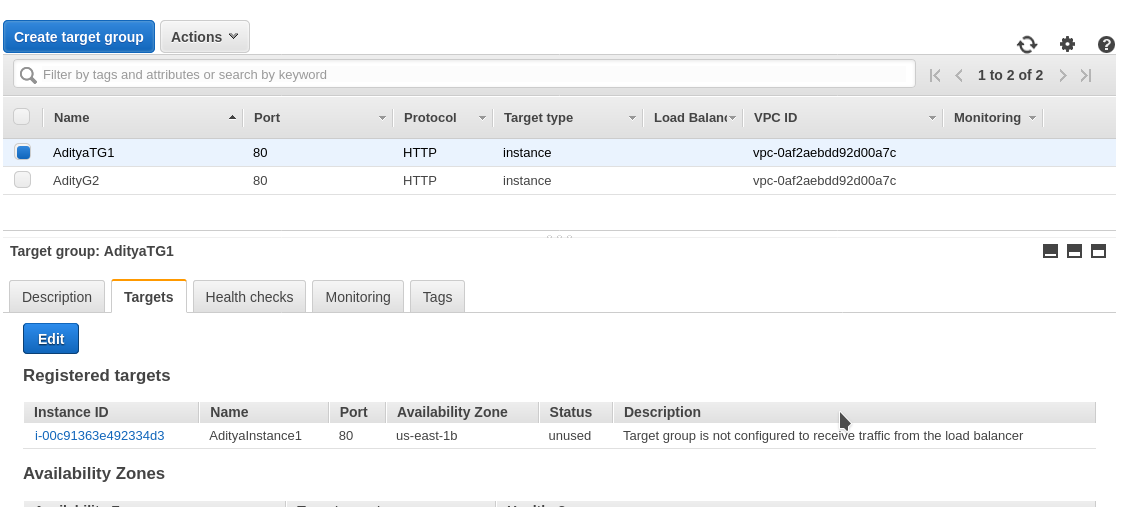


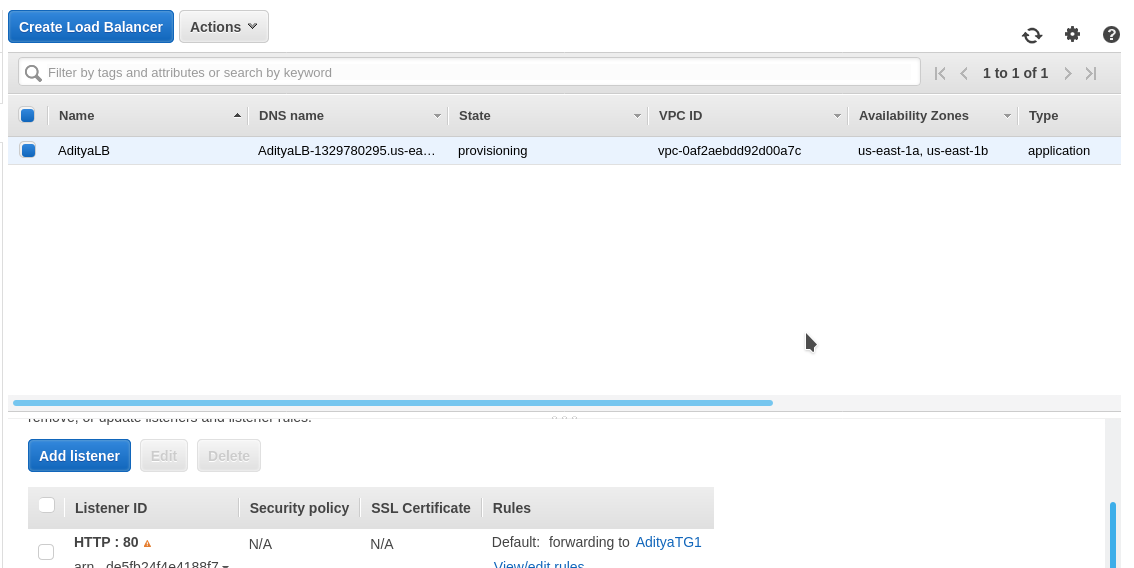


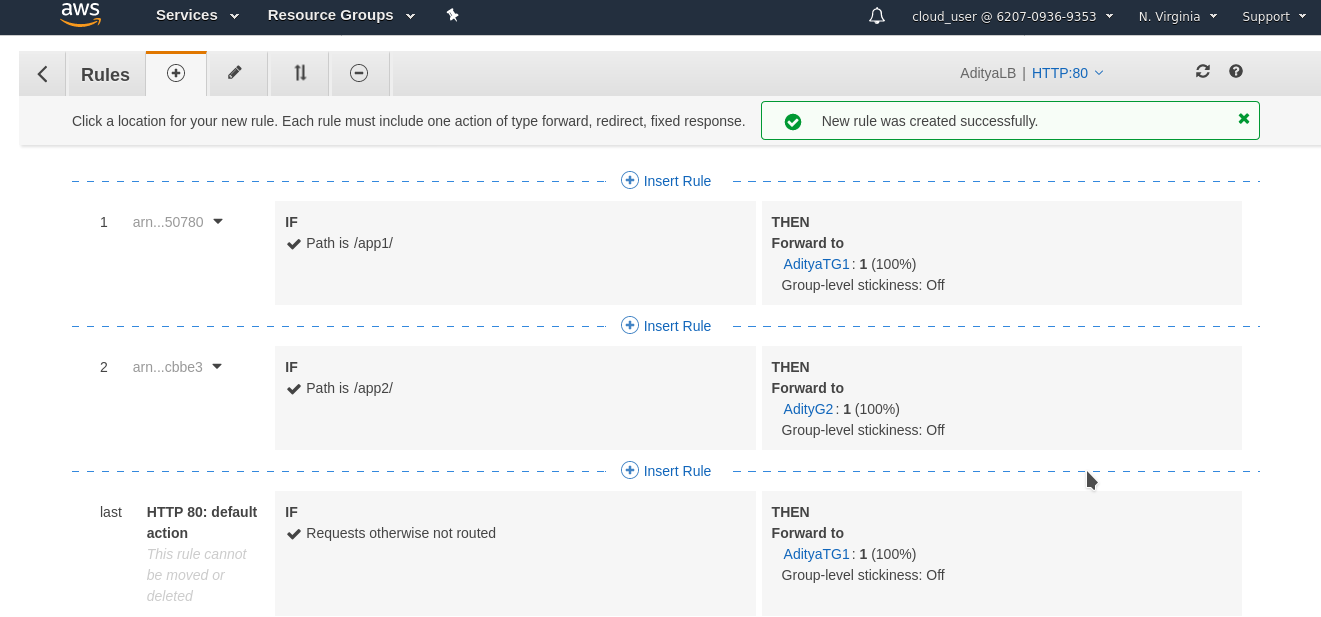


7.Create another Wordpress website and use the ALB created above to send traffic to this website based on the hostname

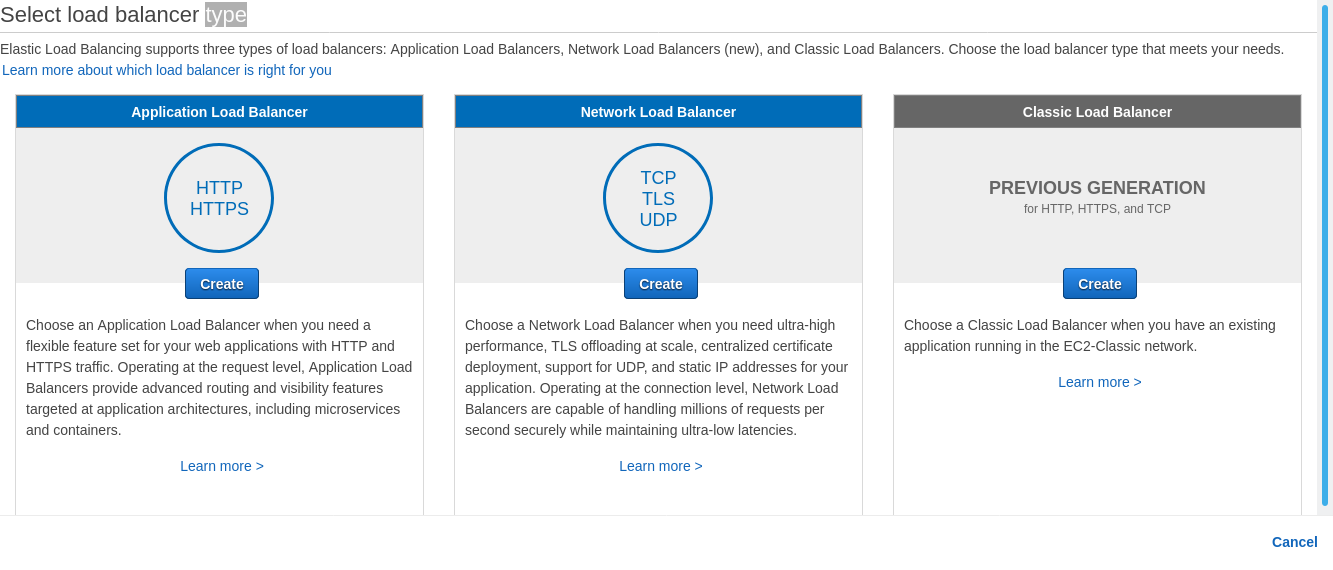


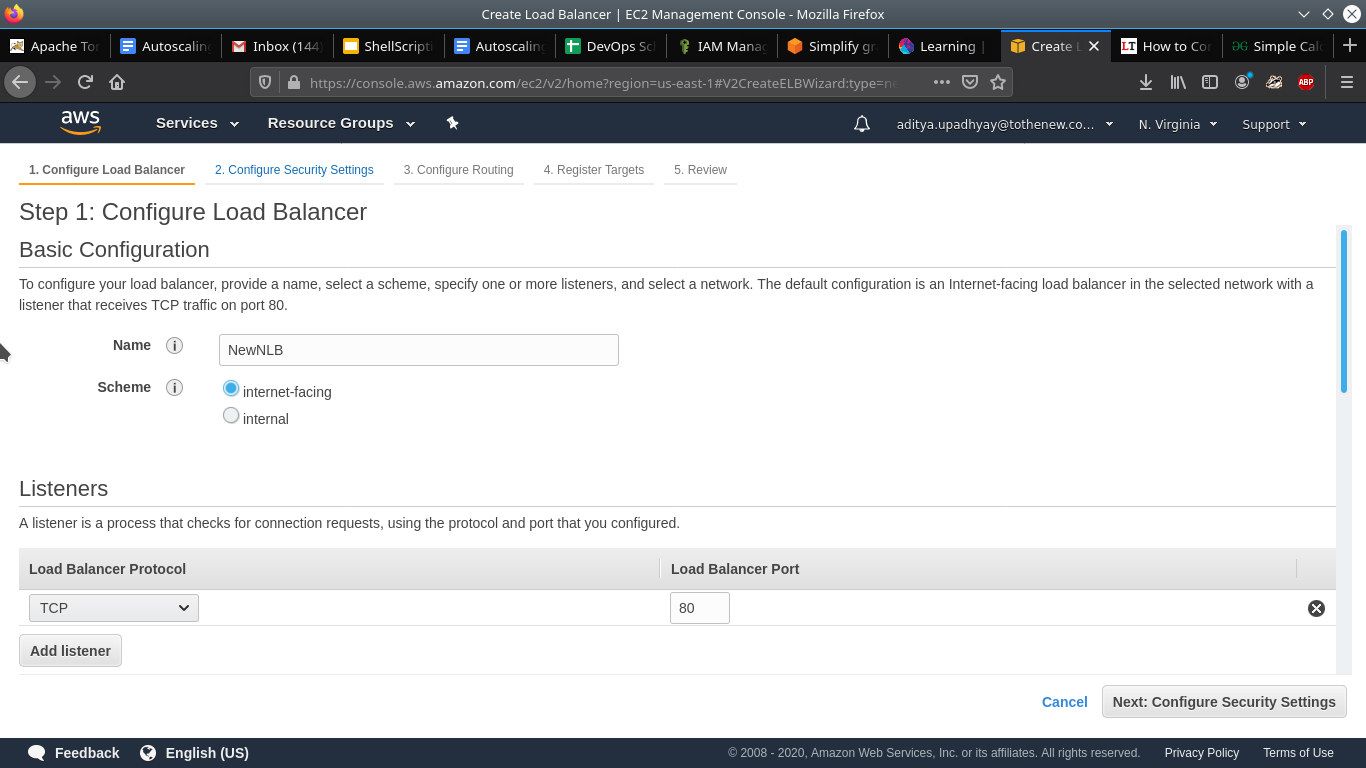


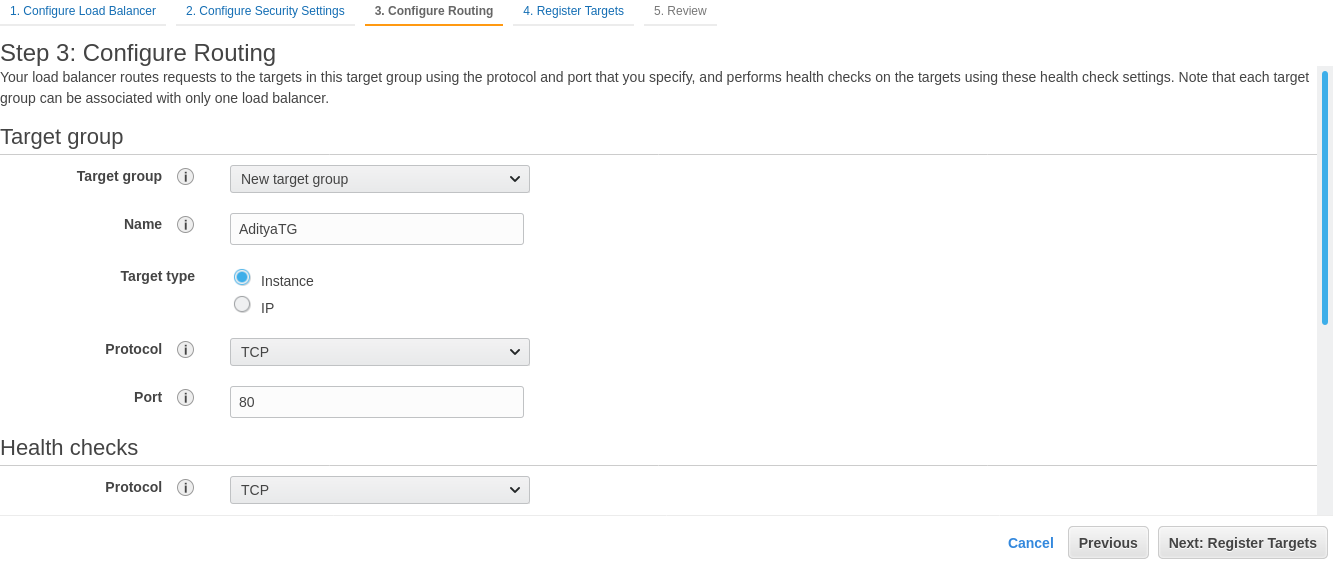


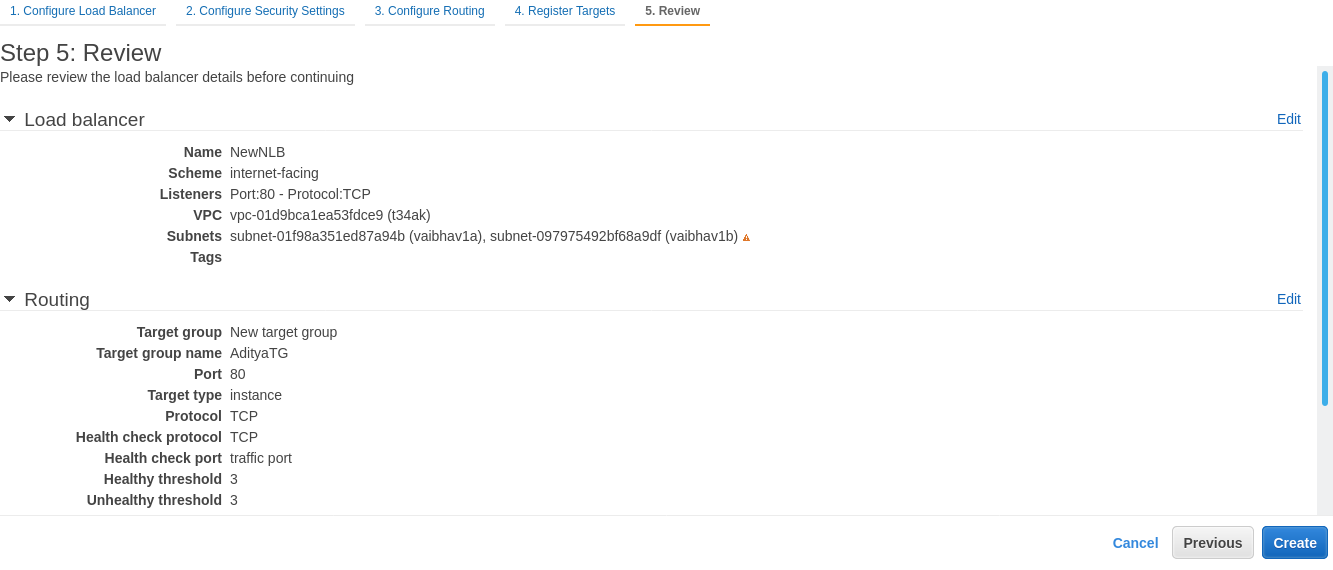


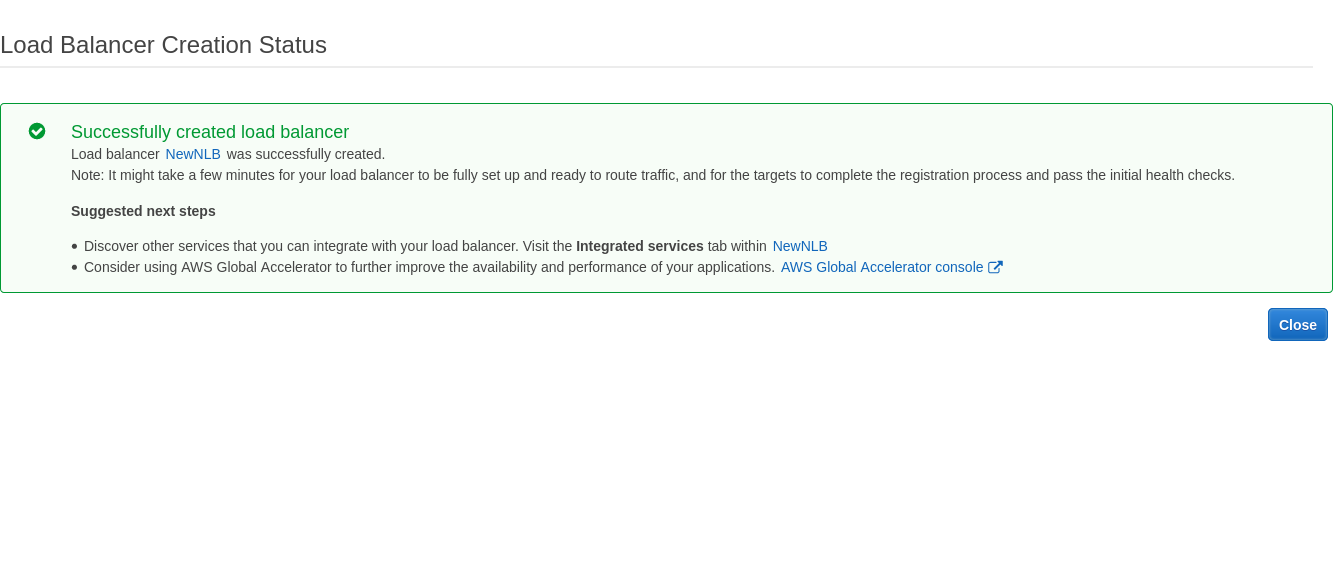
8.Use NLB that replaces the ALB in the above setup.



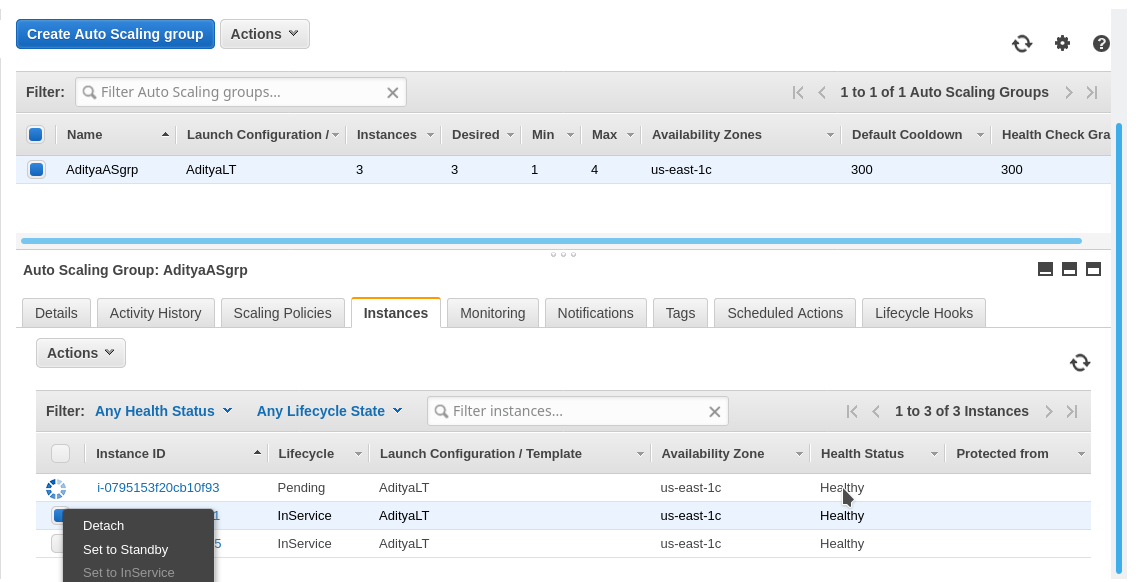






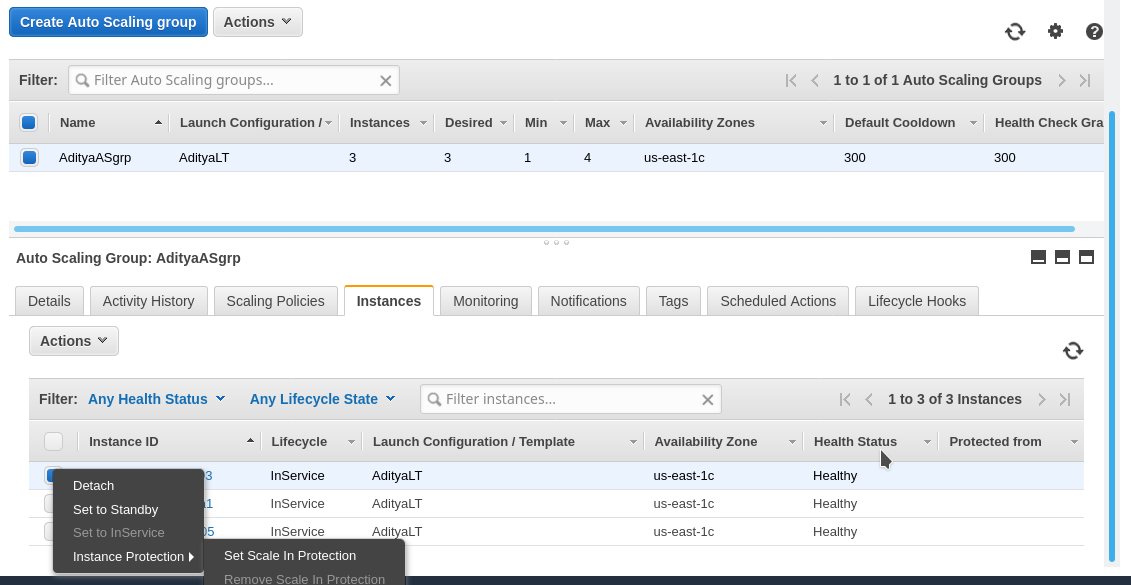


9.Take an instance out of the ASG.

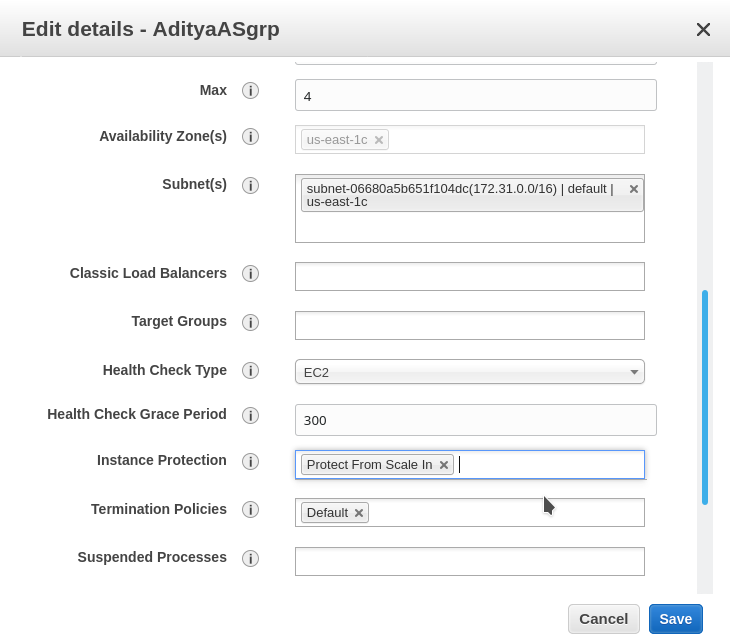


10.Put scale-in protection on an instance in the ASG.

For single instance:

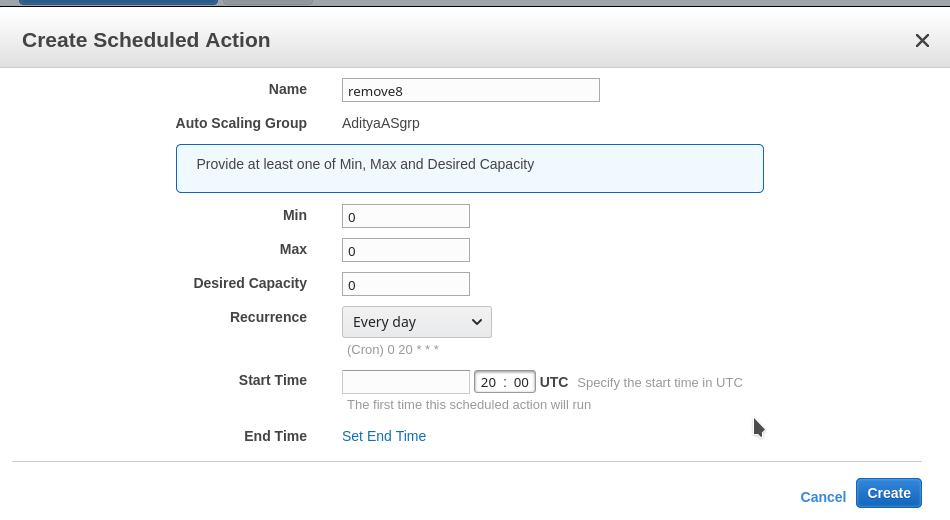


For whole auto scaling group:



11.Put Schedules in ASG to:

* Remove all instances of the ASG at 8 PM



* Launch a minimum of 2 instances at 10 AM

