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Aim: Demonstíate the Auto Scaling and Load Balanceí of a Web Application in the Public Cloud. (CO4)

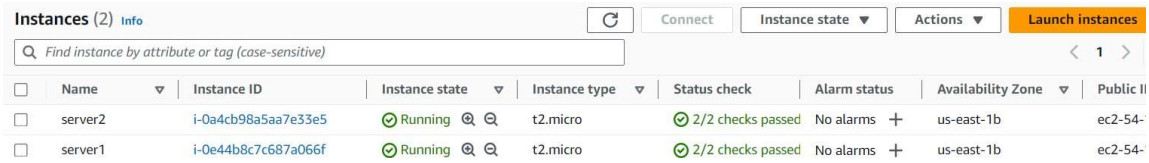
Scenaíio:

Ram is assigned with a task foí setting up a scalable and highly available web application aíchitectuíe in a cloud enviíonment. I'he aíchitectuíe should include load balanceís and auto-scaling to handle vaíying levels of tíaffic. Descíibe how you would design and implement this aíchitectuíe using load balanceís and auto-scaling mechanisms.

I'ask 1: Cíeate and select a Load Balanceí among the application and netwoík set out an appíopíiate instances foí the application.

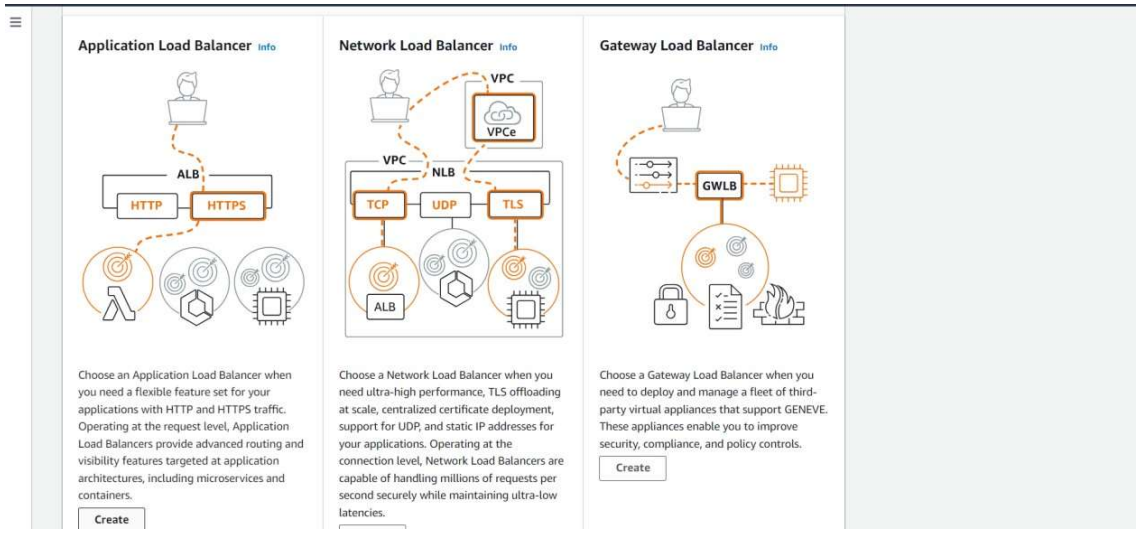
I'ask 2: Cíeate an Auto Scaling Policies based on the vaíying woíkload distíibution depending on the capacity of the instances.

Step1: Create 2 ubuntu instance.

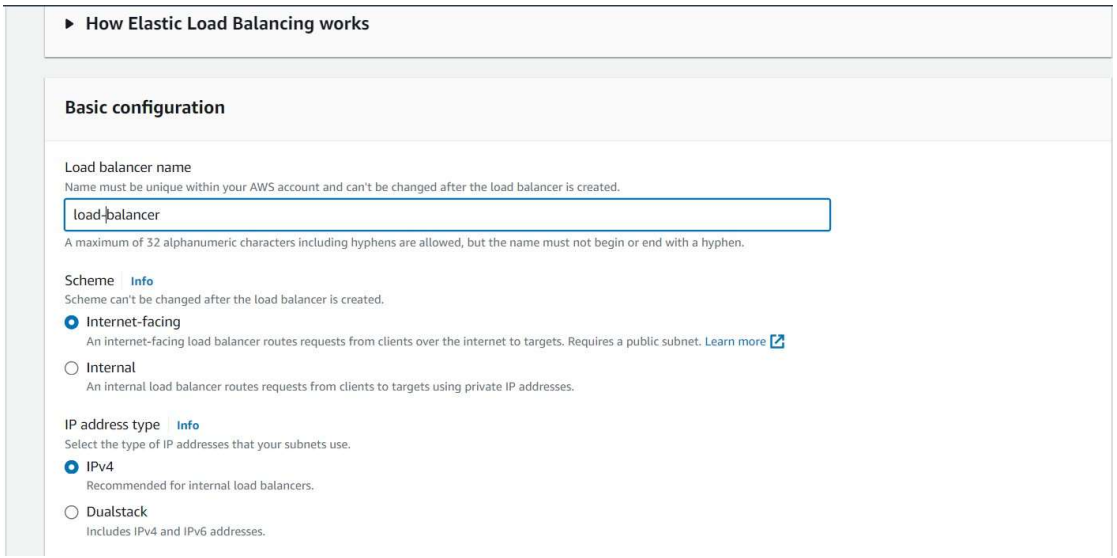


Step 2: Install apache2 in both of them and configure /var/www/html/index.html and add server`s name in body section.

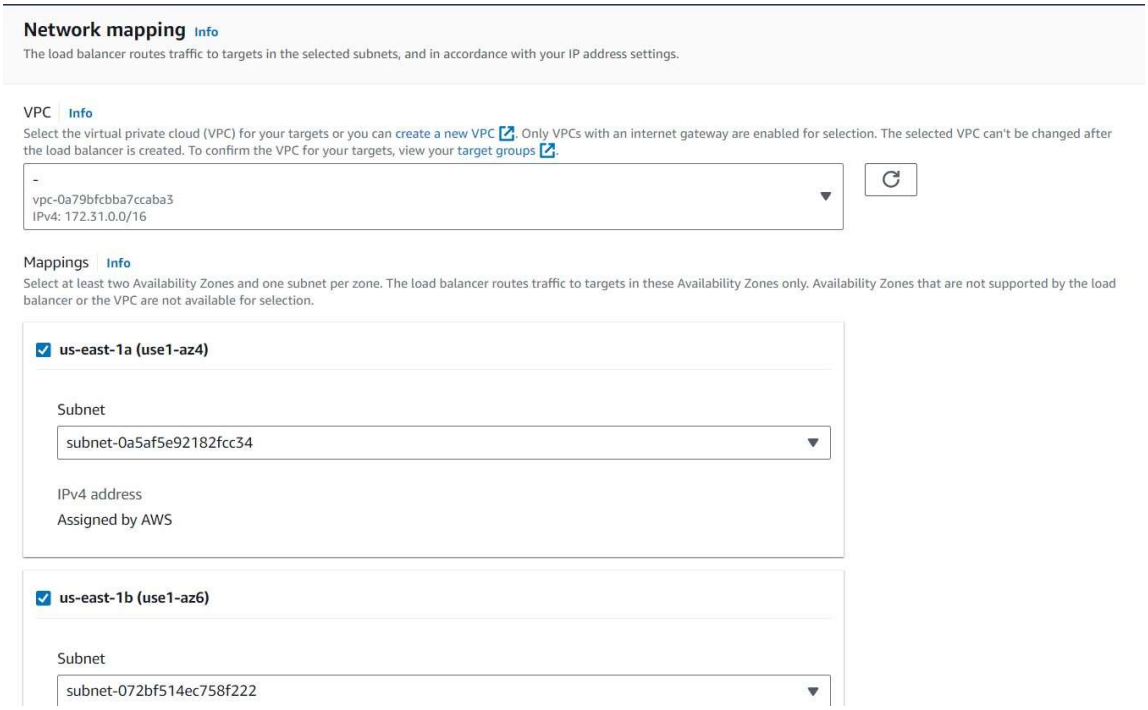
Step3: Create a Application Load Balancer.



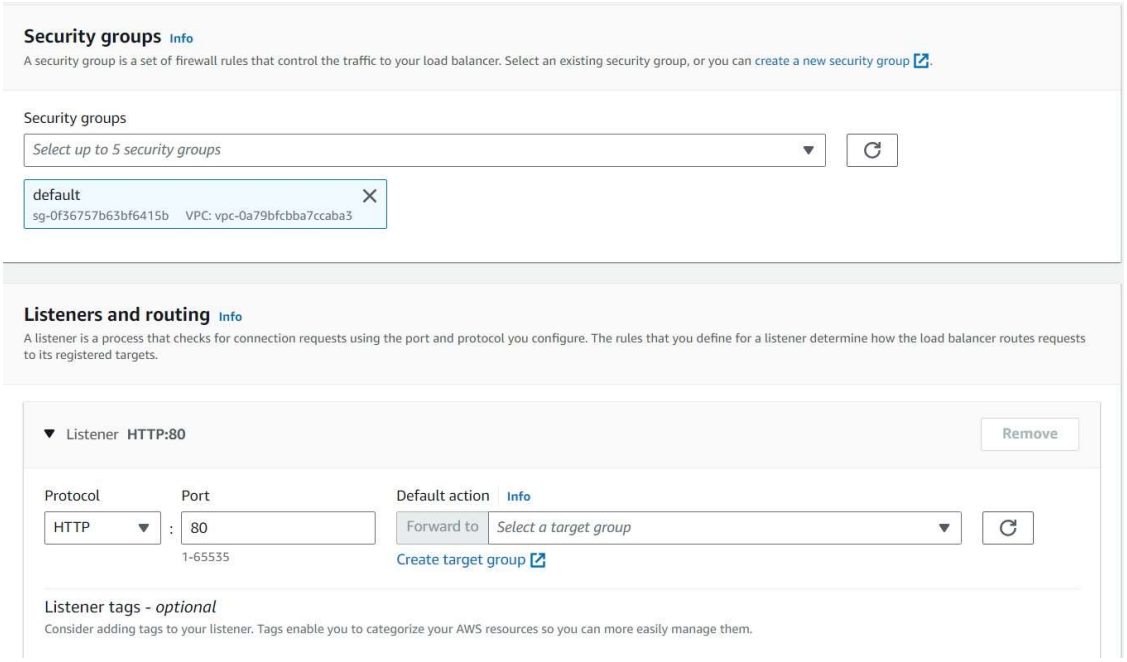
Step4: Name the load balancer, select schema and select the IP address type.



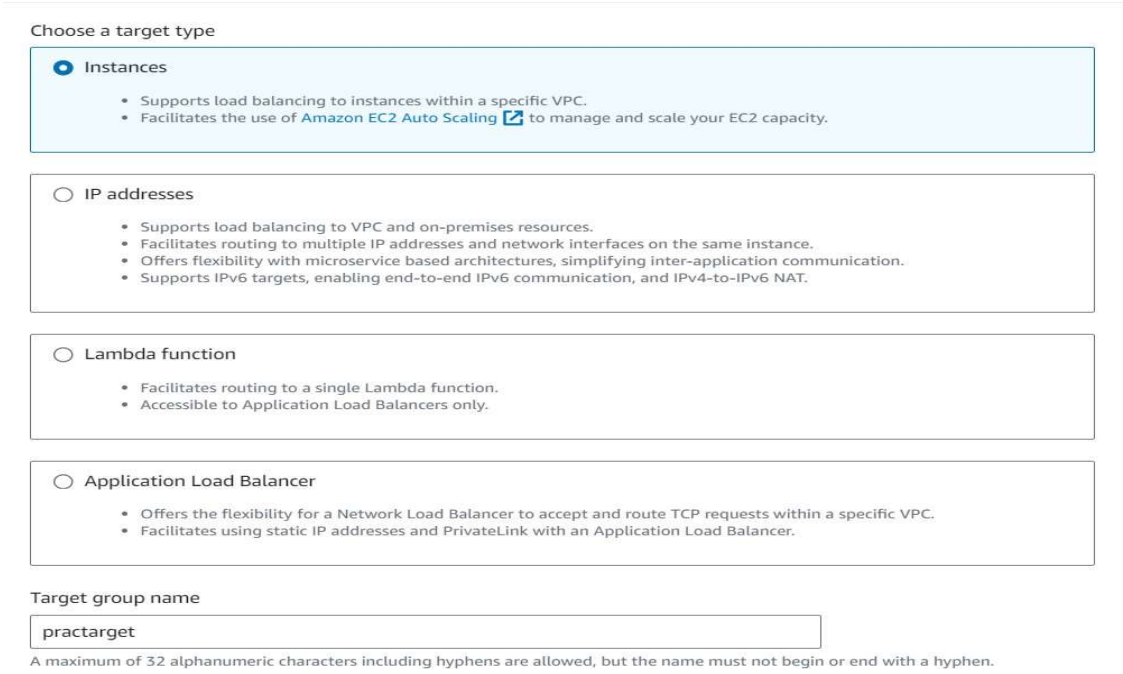
Step5: Select the Availability Zones for which you need load balancer.



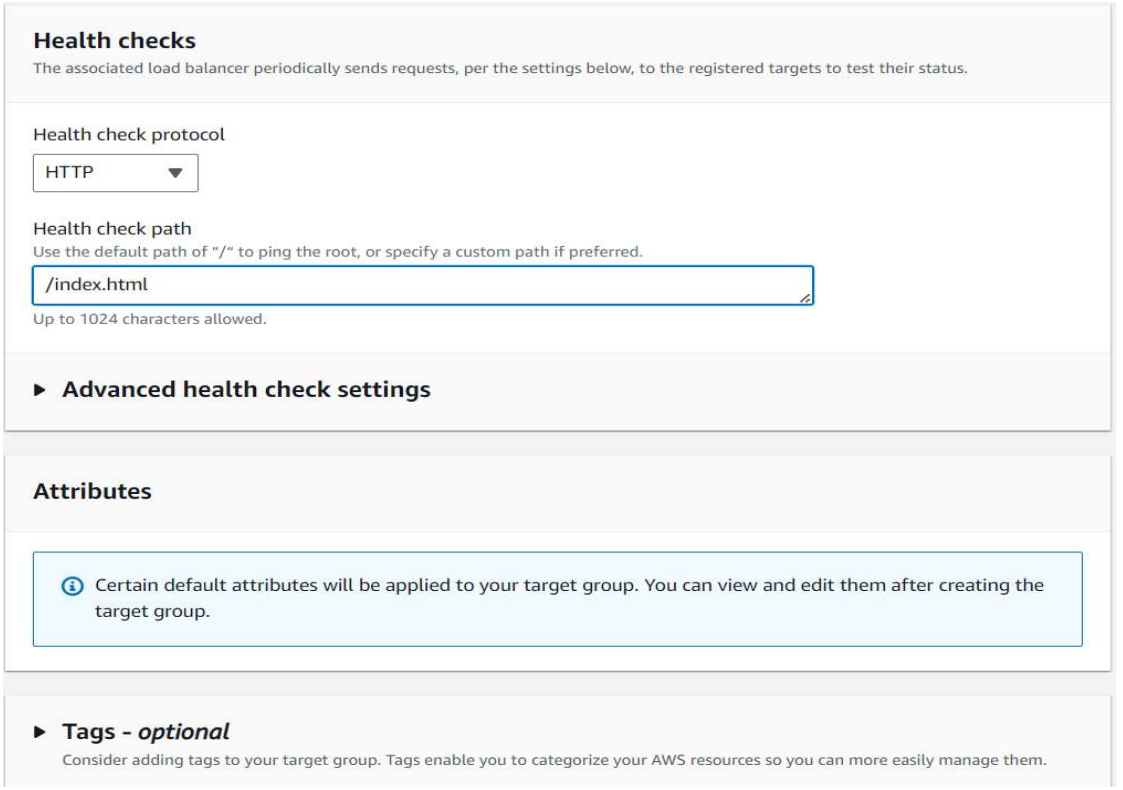
Step6: Configure Security Group and click on create target group.



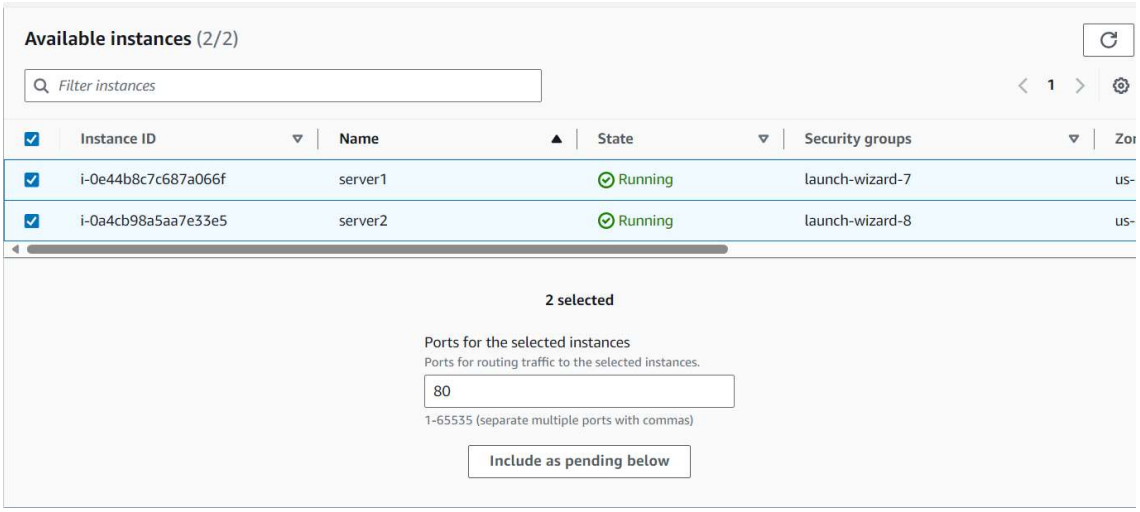
Step7: Choose target type as instances and provide name to target group.

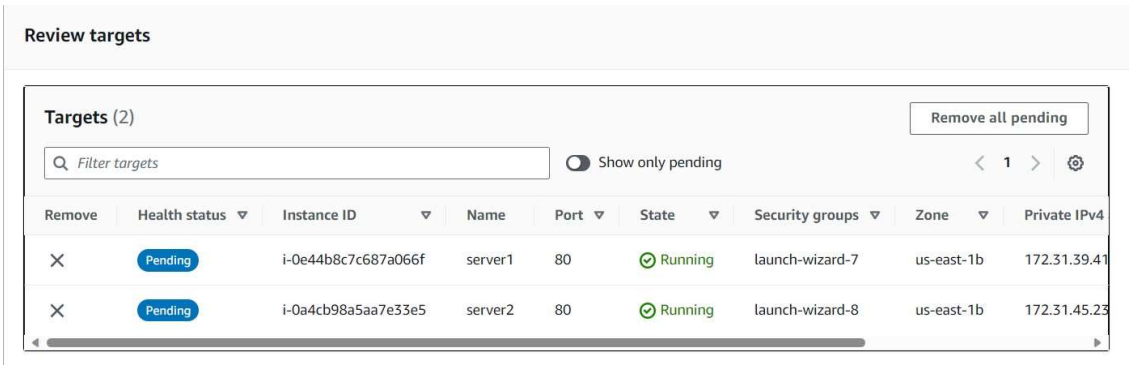


Step7: Add path of index.html file to check its health.

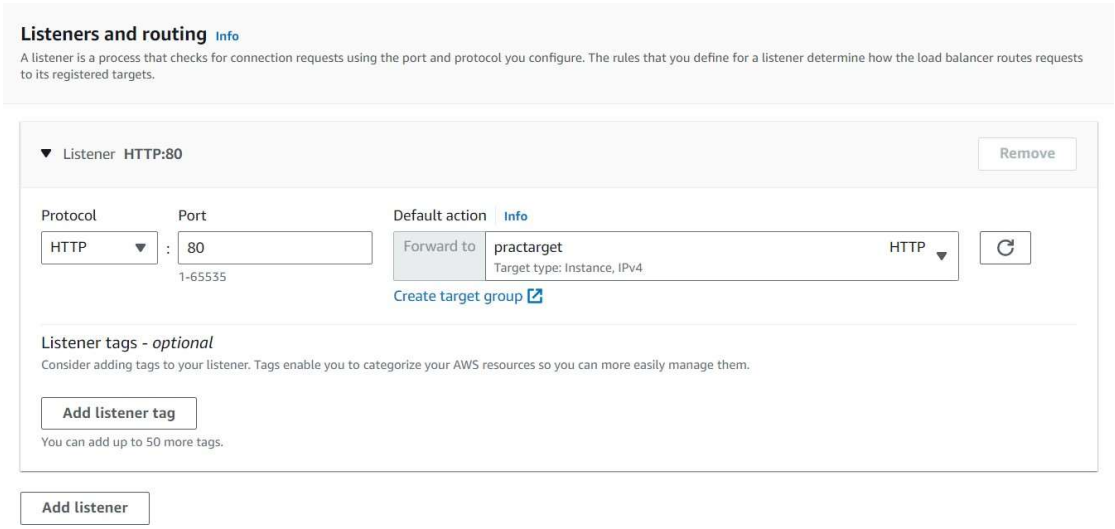


Step8: Add the Server1 and Server2 in target group.





Step9: Select the target group in the load balancer and create load balancer.



Step10: Now unlink index.html from server2 and check if it shows its health.