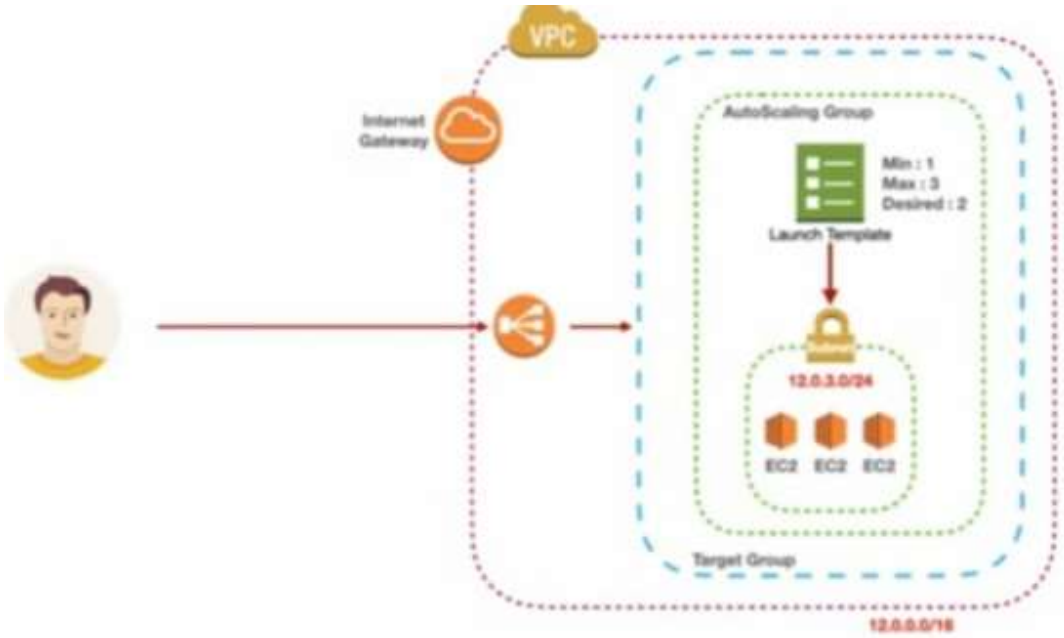
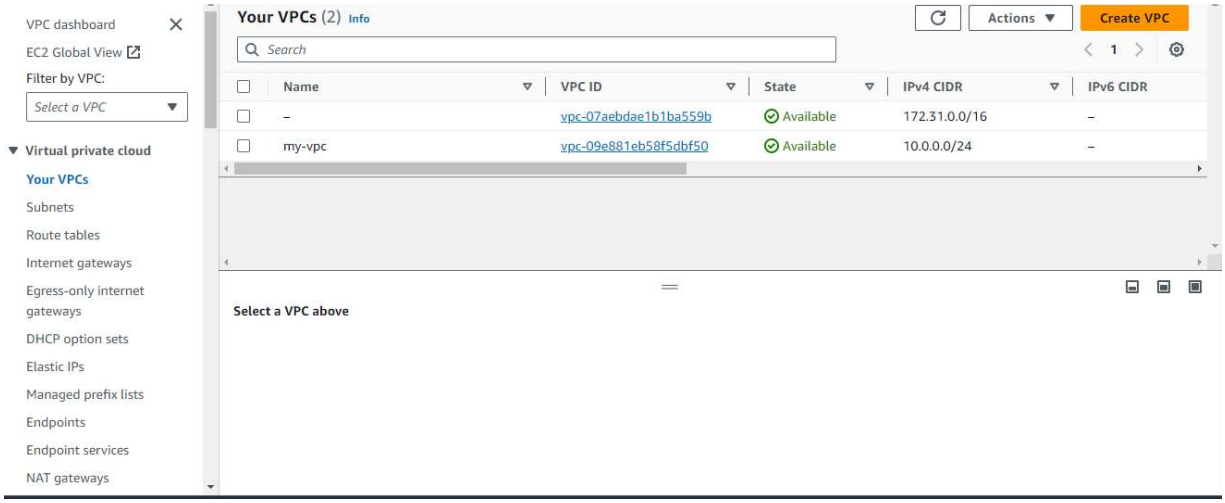
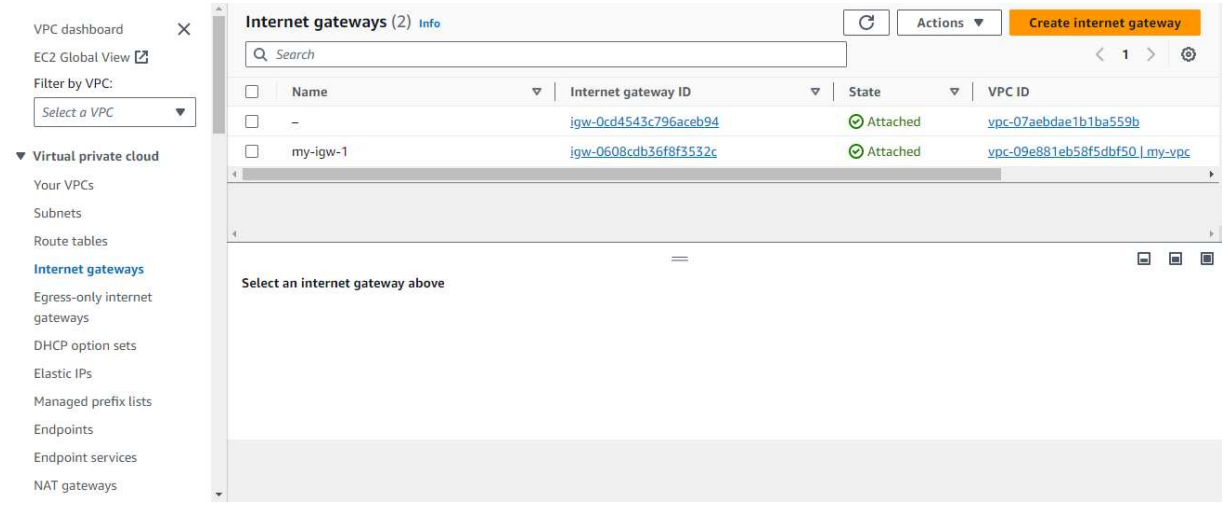
APPLICATION LOAD BALANCER



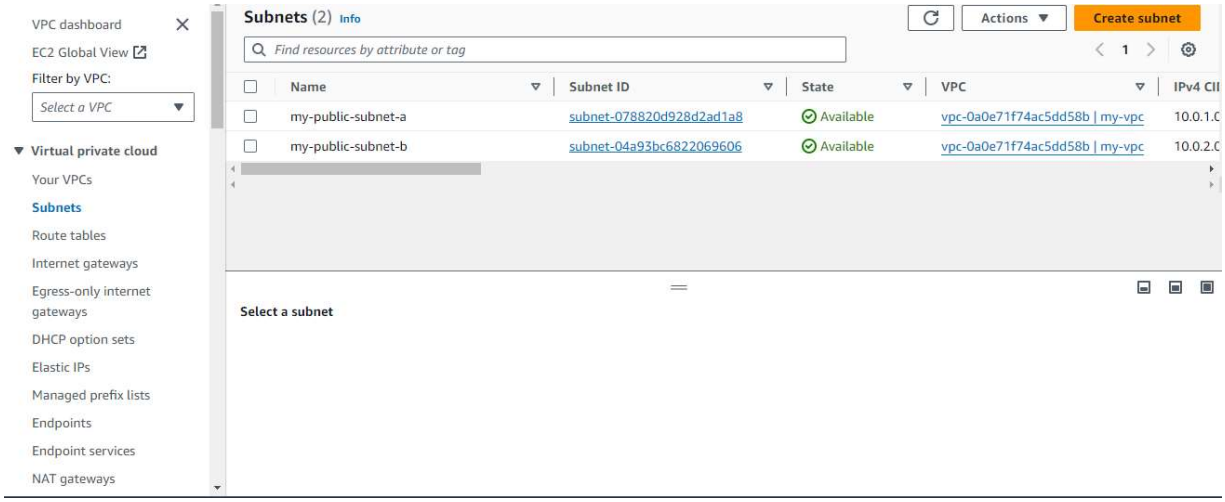
Step 1 : Create a VPC (my-vpc) **.**



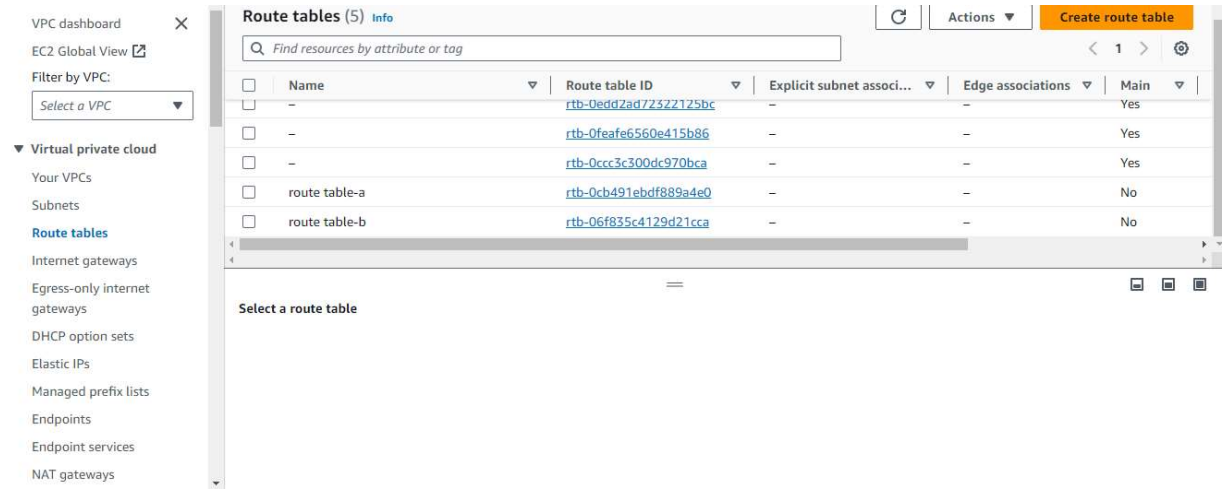
Step 2 : Now create an internet gateway (my-ingw-1) and attach to vpc (my-vpc) **.**



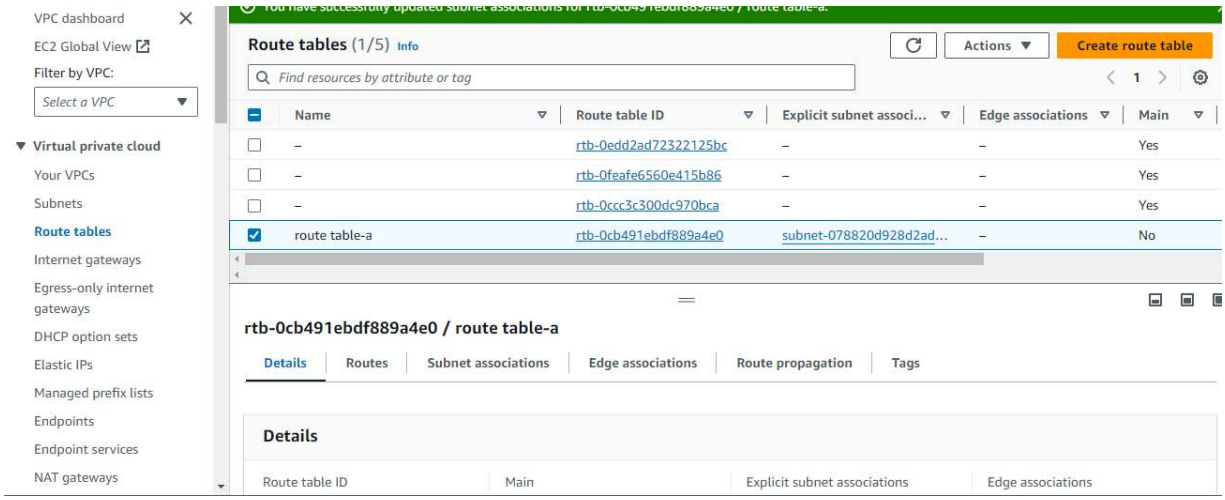
Step 3 : Create two public subnets (my-public-subnet-a,my-public-subnet-b) with two different availability zones.

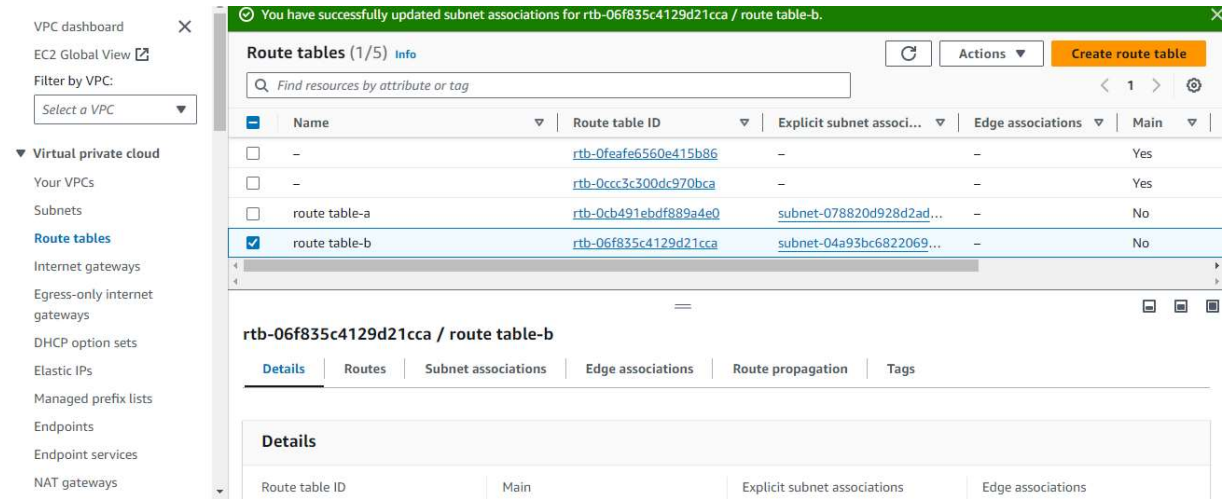


Step 4 : Now create two route tables (route table-a,route table-b) .

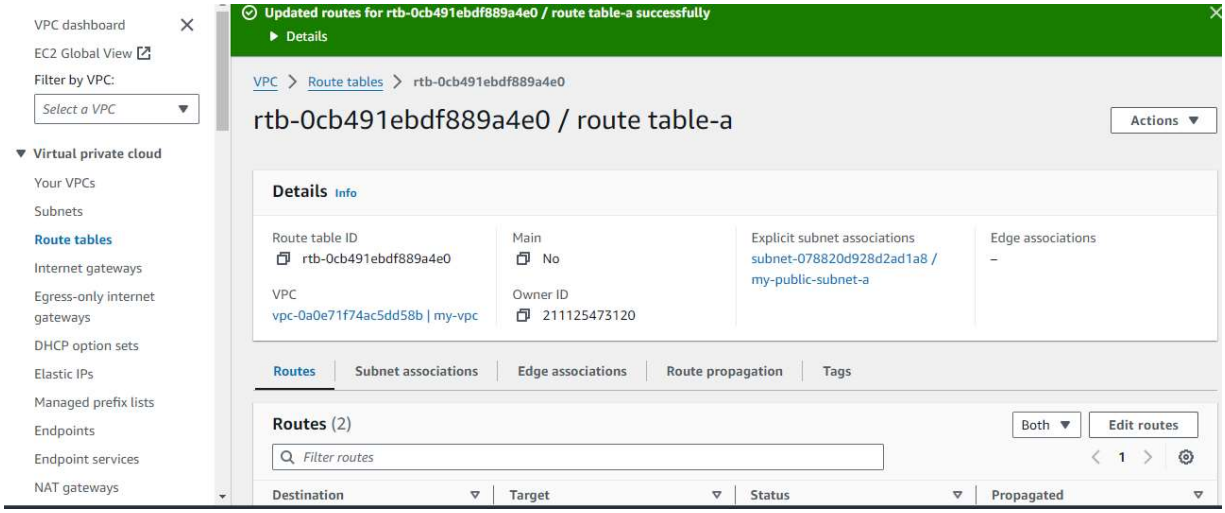


Step 5 : Now connect route tables to subnets for configure routing (my-public-subnet-a to route table-a) (my-public-subnet-b to route table-b) and click on save association.

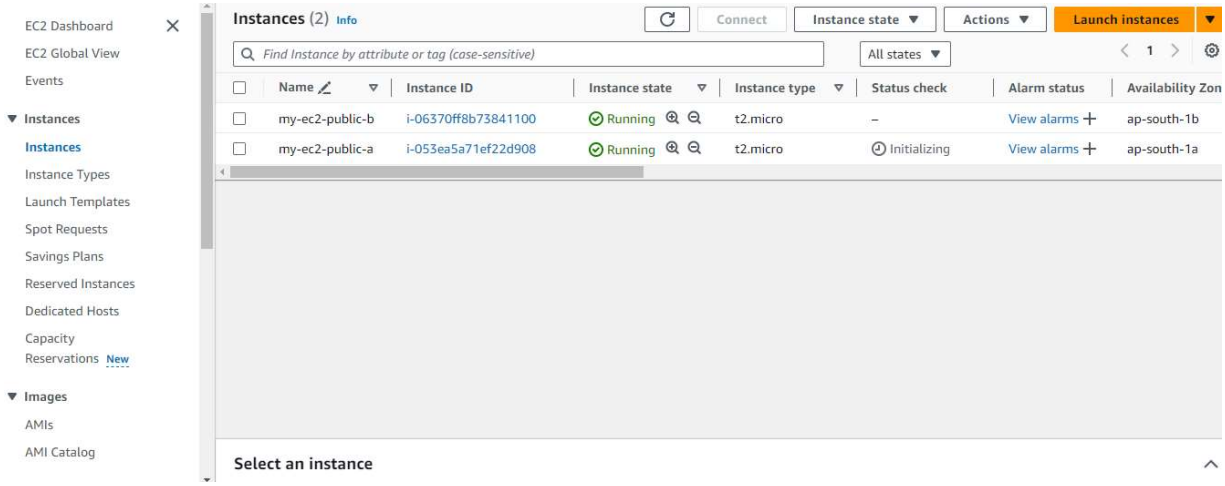




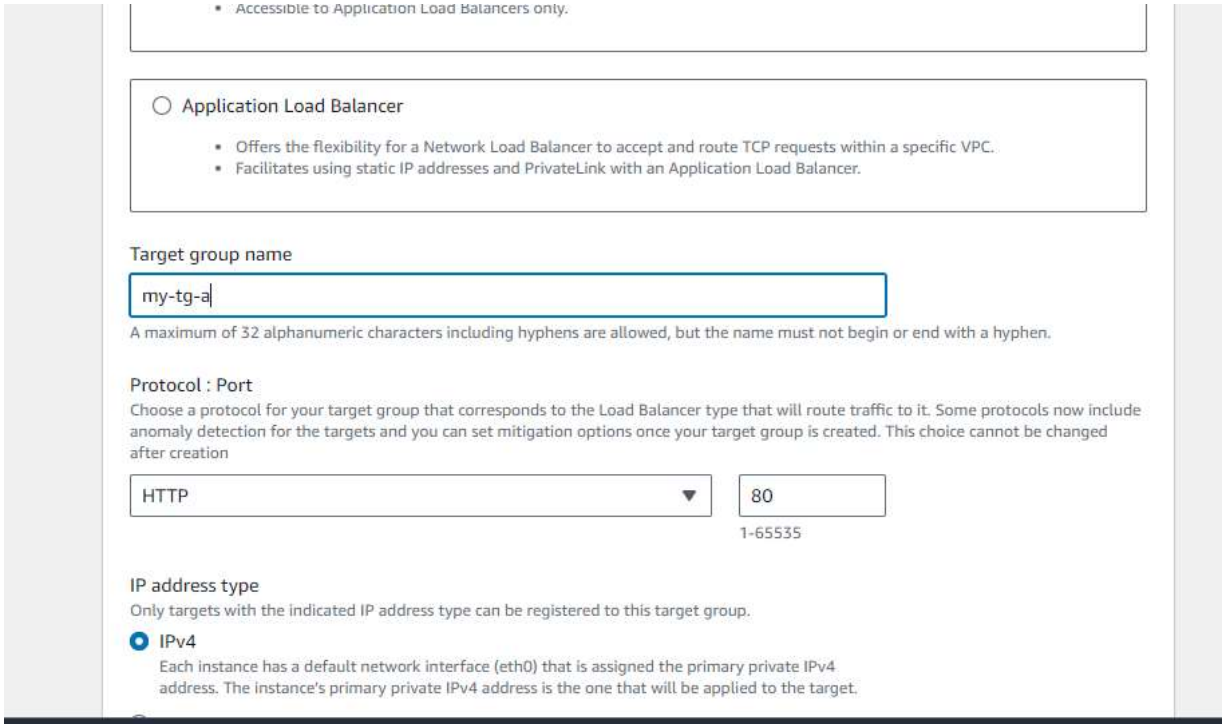
Step 6 : Now attach the route tables to the internet gateway for accessing the internet connection for the public subnets.

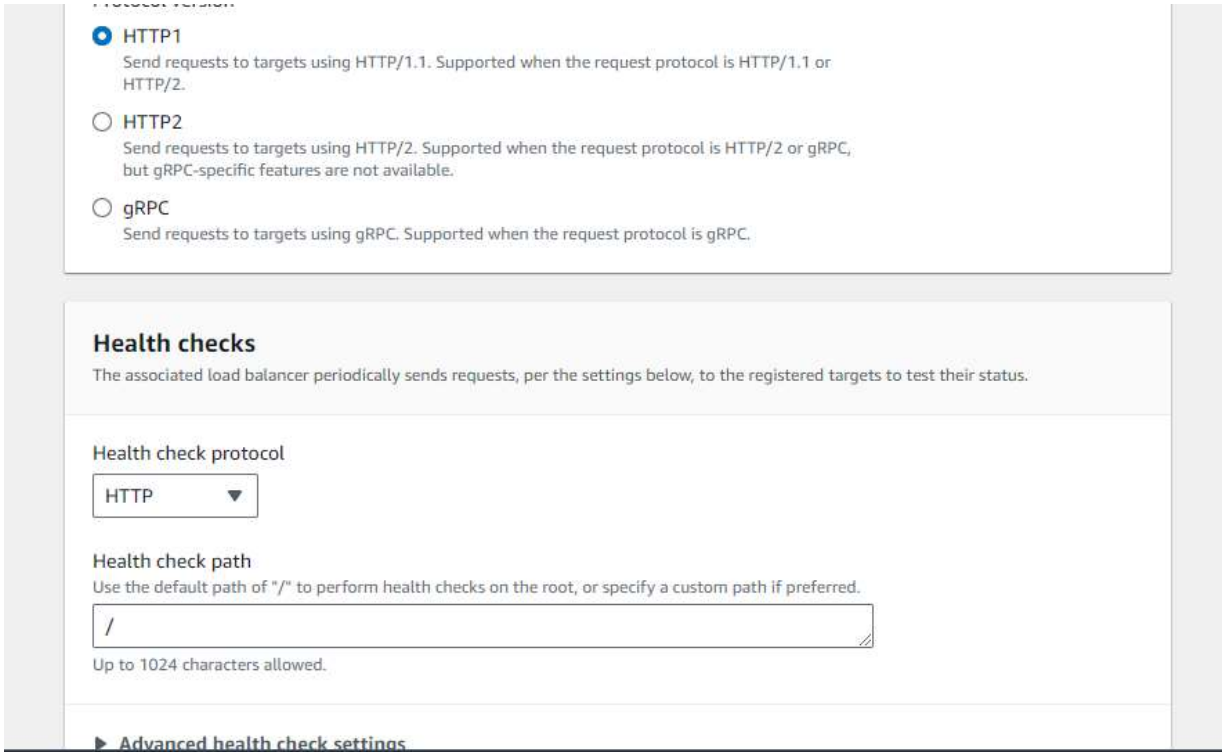


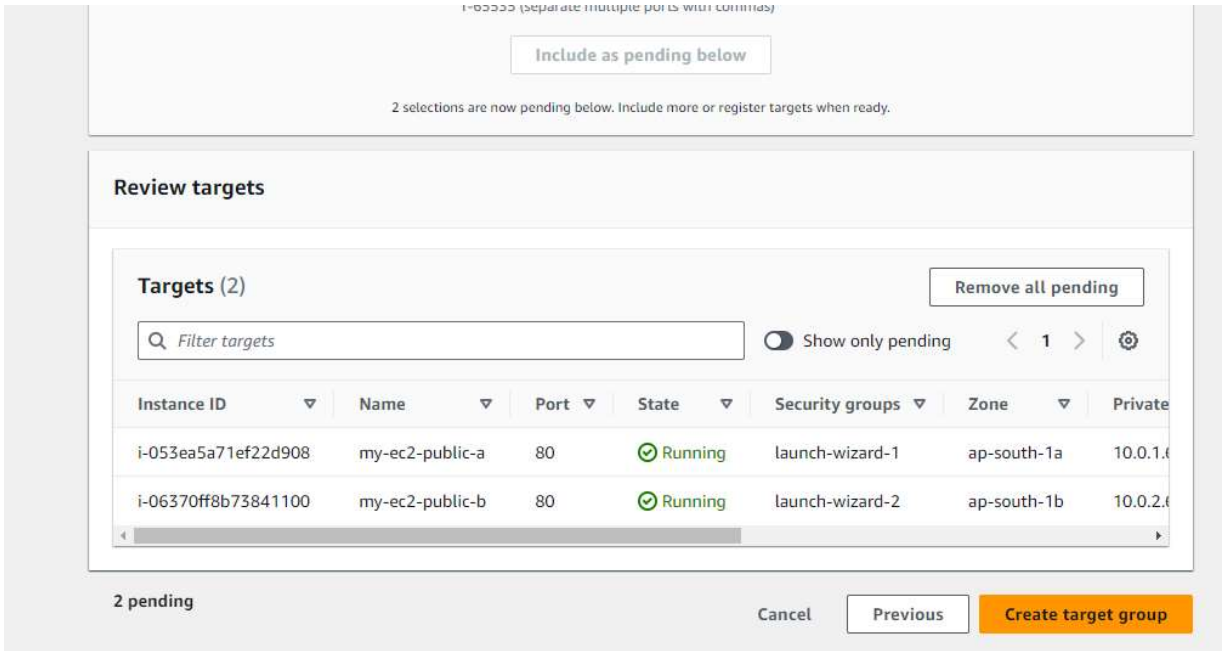
Step 7 : Now create two ec2 instances and connect to subnets,create ec2 instances inside the subnets .



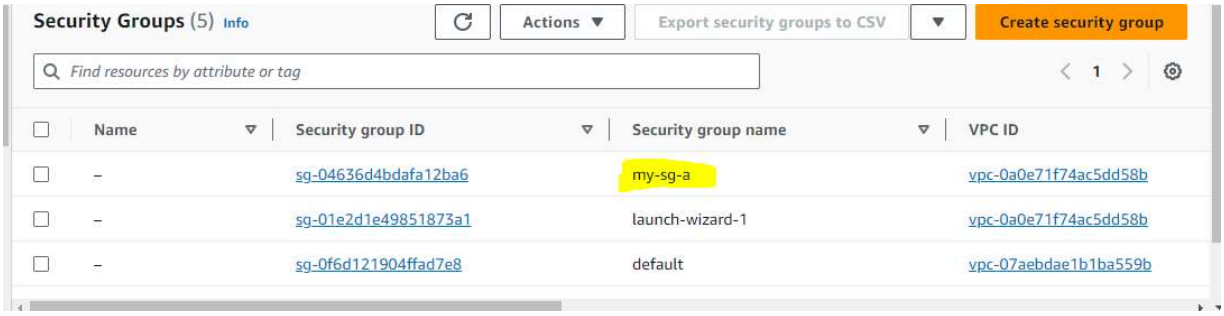
Step 8 : Now create one target group,we are creating a target group inside the subnet .

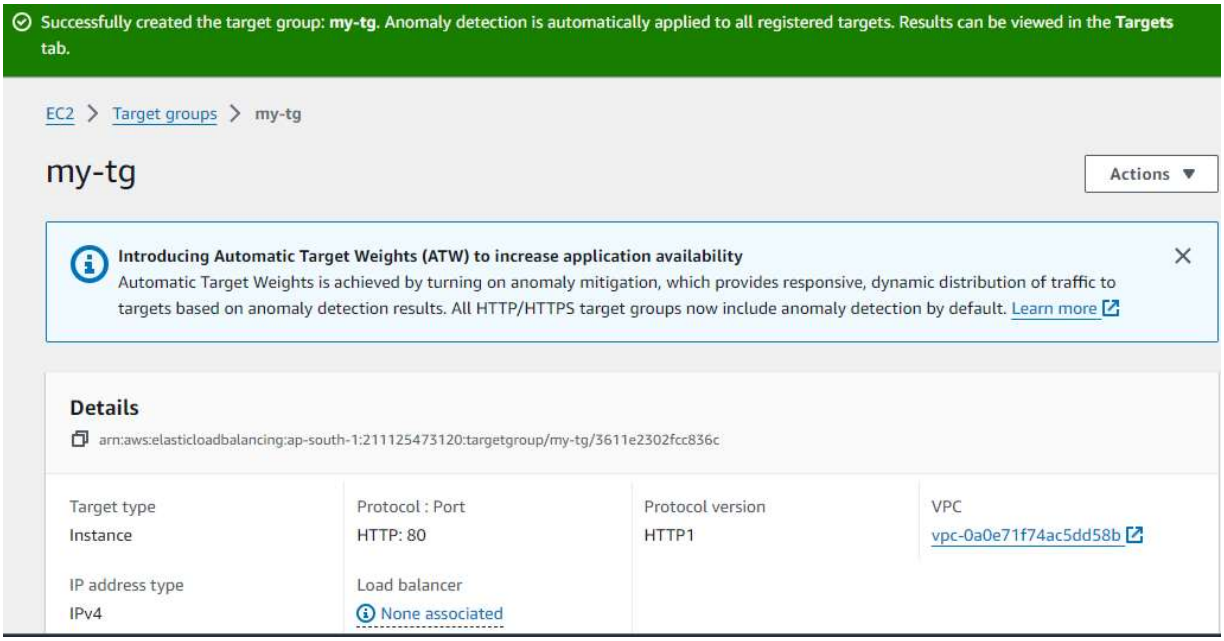



HTTP1
Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
HTTP2
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
gRPC
Send requests to targets using gRPC. Supported when the request protocol is gRPC.
Health checks
The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.
Health check protocol
HTTP
Health check path
Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.
/
Up to 1024 characters allowed.
Advanced health check settings


Include as pending below
2 selections are now pending below. Include more or register targets when ready.
Review targets
Targets (2)
Remove all pending
Filter targets
Show only pending
1
Instance ID
Name
Port
State
Security groups
Zone
Private
i-053ea5a71ef22d908
my-ec2-public-a
80
Running
launch-wizard-1
ap-south-1a
i-06370ff8b73841100
my-ec2-public-b
80
Running
launch-wizard-2
ap-south-1b
2 pending
Cancel
Previous
Create target group

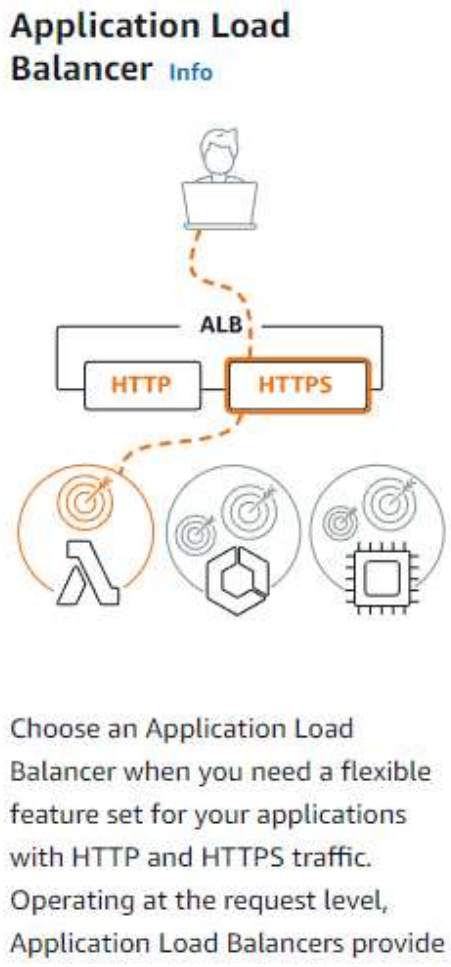
Step 9 : Now create a security group so that the application load balancer can be accessed from the internet .

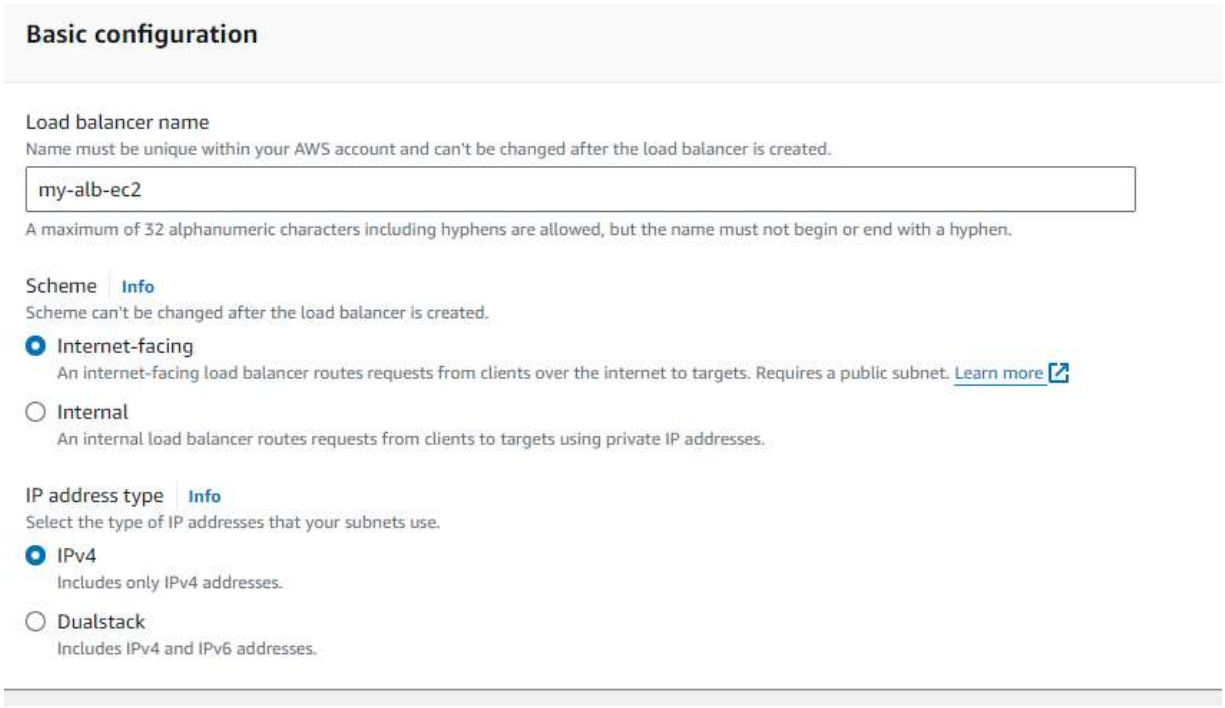




AFTER CREATING SECURITY GROUP CREATE A LOAD BALANCER.

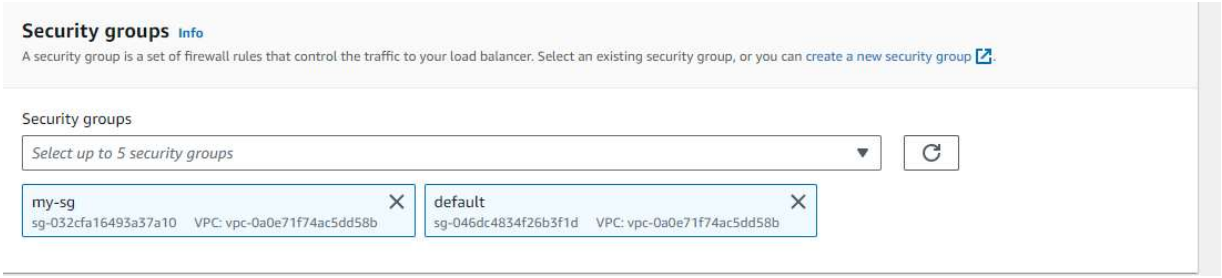
Step 10 : Now create a load balancer (Application load balancer).



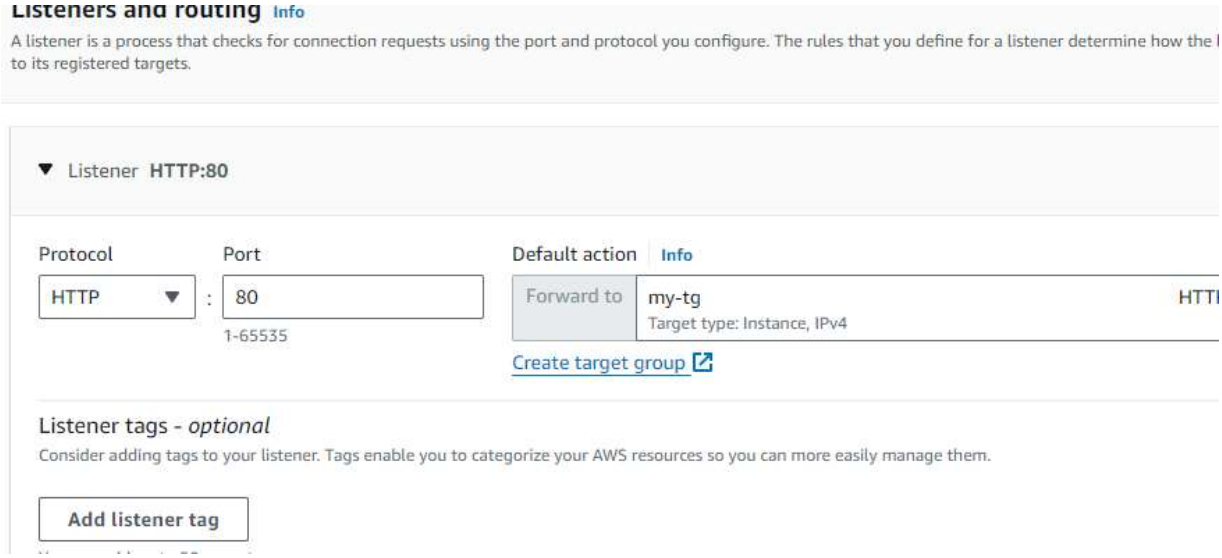

Basic configuration
Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
my-alb-ec2
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme can't be changed after the load balancer is created.
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses.
IP address type Info
Select the type of IP addresses that your subnets use.
IPv4
Includes only IPv4 addresses.
Dualstack
Includes IPv4 and IPv6 addresses.

VPC Info
Select the virtual private cloud (VPC) for your targets or you can create a new VPC. Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups.
my-vpc
vpc-0a0e71f74ac5dd58b
IPv4 VPC CIDR: 10.0.0.0/16
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
ap-south-1a (aps1-az1)
Subnet
subnet-078820d928d2ad1a8
my-public-subnet-a
IPv4 address
Assigned by AWS
ap-south-1b (aps1-az3)
Subnet
subnet-04a93bc6822069606
my-public-subnet-b
IPv4 address
Assigned by AWS

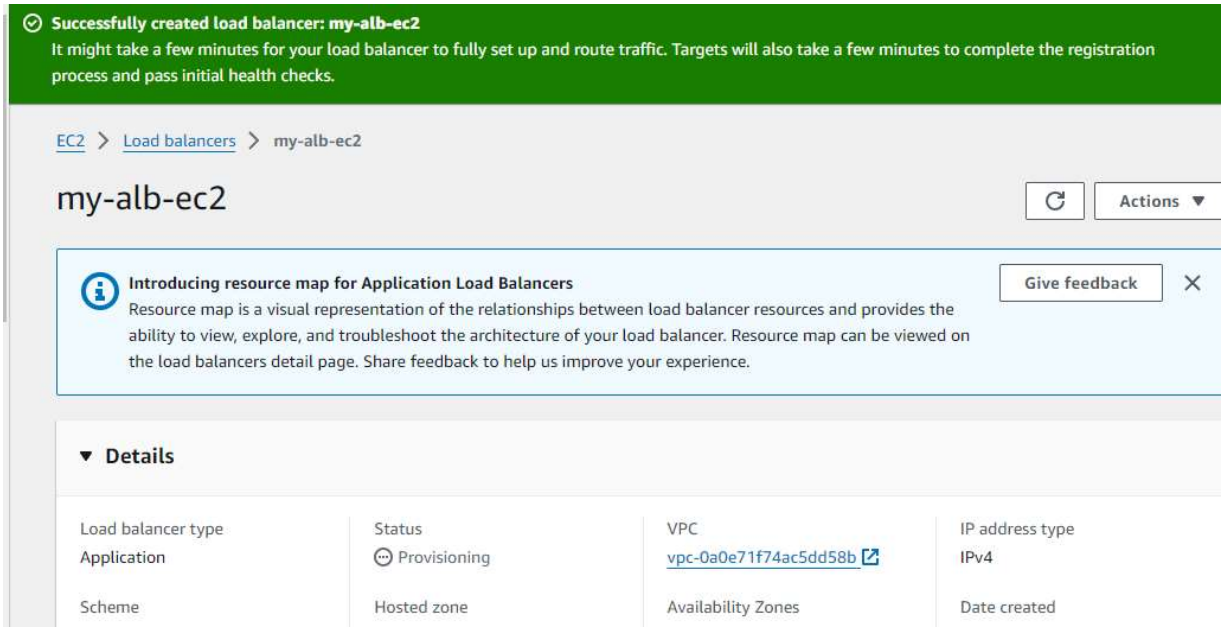
You have to give two subnets for application load balancer with two different availability zones.

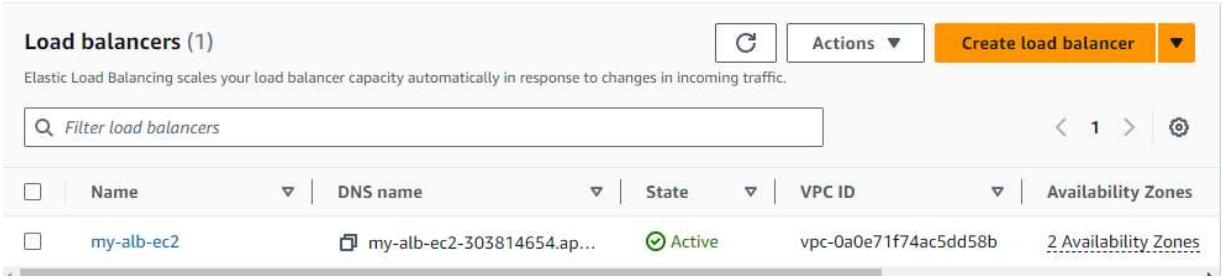


Select two security groups .



In listeners and routing you have to select a target group .





SUCCESSFULLY CREATED LOAD BALANCER WITH TWO SUBNETS ,VPC,SECURITY GROUP AND TARGET GROUP .