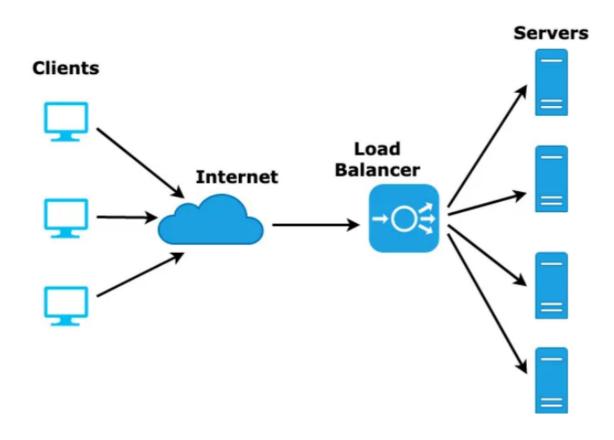
# LOAD BALANCE LAUCHINGING IN TWO MACHINE

Load balance is takes traffic from user /customer and distribute traffic of server / target machine( it follows the round robin method)

Load balance continuously monitors the health registered targets of the server and route traffic only healthy target.it will send pins requested to the server. every 5 second send ping request if server not respone ping request twice. load balance treated as unhealthy machine and stop traffic and distribute traffic to another machine. Once the server turns to a healthy state it resumes the traffic to healthy targets



Load balance can be classified into three types
Application Load balance
Network Load balance
Gateway Load balance

# Application load balance:

Application load balance can be used in http and Https traffic routing Its load balance works the application layer of the osl model. The load balancer also support the dynamic host port mapping

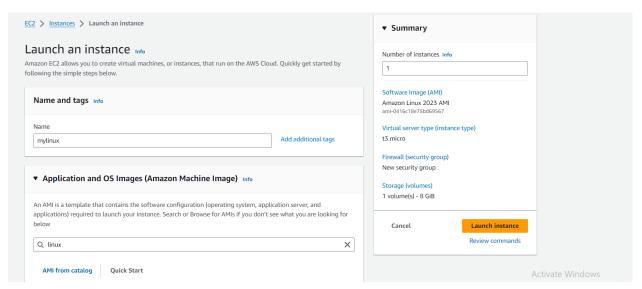
# Launching in Application load balancer in aws conscole

For launch the load balance you need the two instance and one load balance is requried and security group used to handle the inbound and outbound traffic and it act firewall

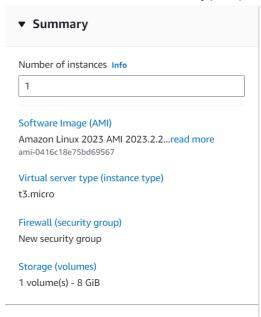
- 1. Lauch in ec2 instance(two machine and install the web server)
- 2. Lauch in load balance
- 3. Created the security group

#### Go the aws console serch ec2 instance

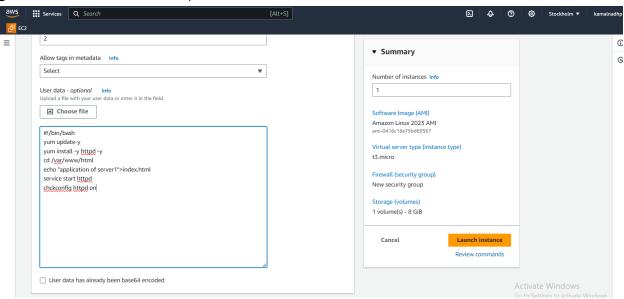
1. Choose the ami(image)



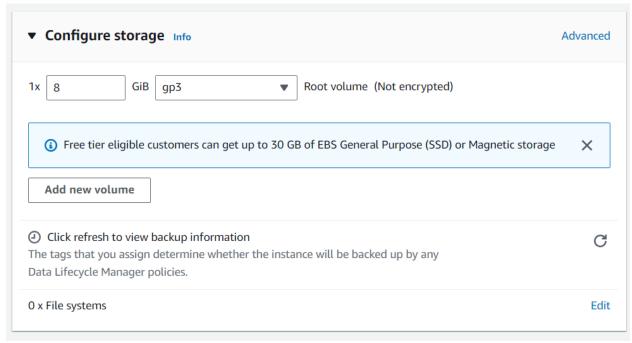
# 2.choose the instance type (os Ram)



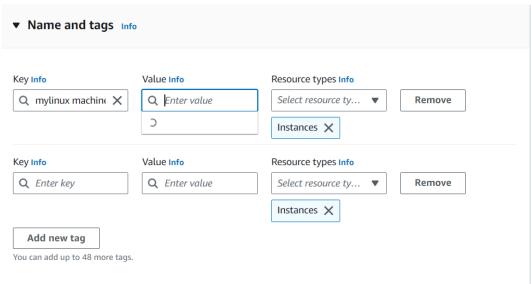
3.configure the instance type (go the user data install the web server given command below )



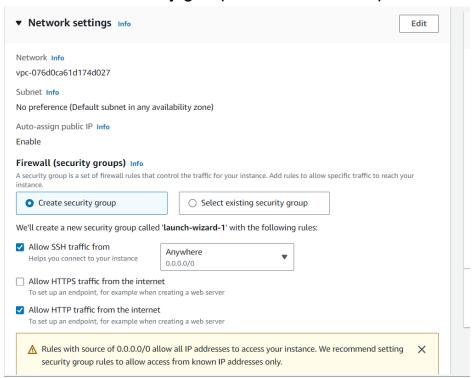
4.add the storage aws provided default as (8gb ram)



# 5.add the tags

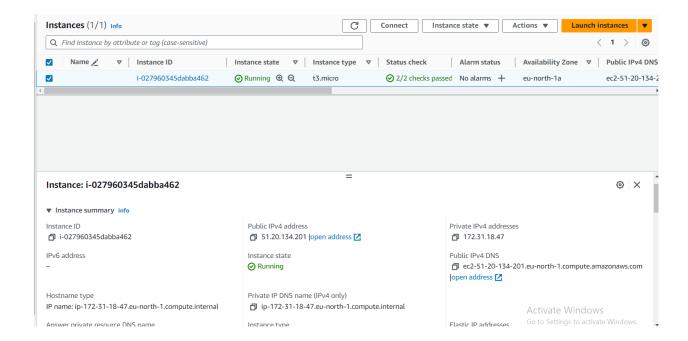


# 6.choose the security group and allow the http traffic



#### 7.review the and launch instance

Go the ec2 details copy the public ip adress and paste in google browser because webserver working correctly or not

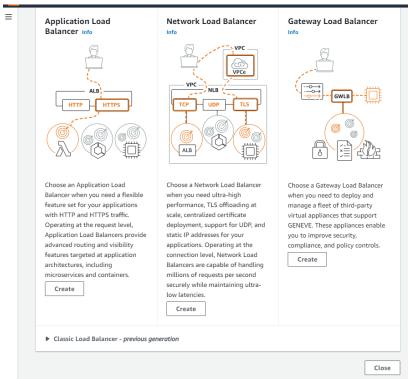


#### Launch the another instance as shown a below

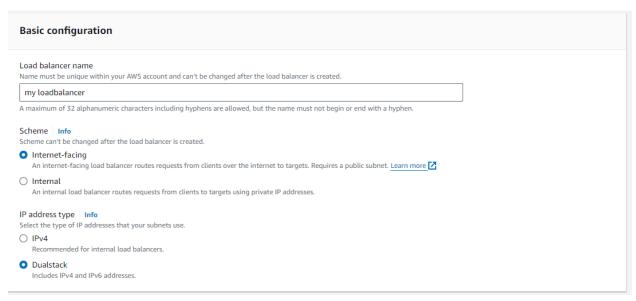
2. Choose the load balance as shown in below



### Steps to create load balance as shown below



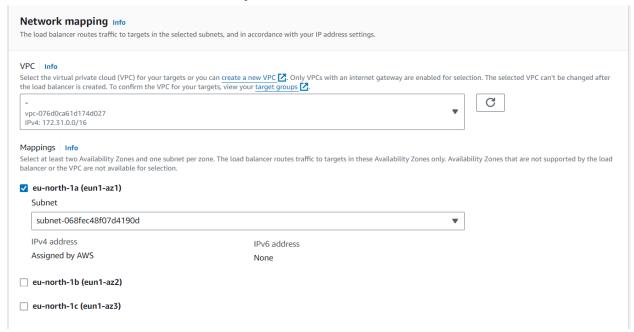
1.Created as Application load balance it allow the http and https traffic as shown as below



When are deals with public ip gothe internet -facing and internal ip means the public ip

Choose the both ipv4 and ipv6 go the dual stack as mentioned as below figure

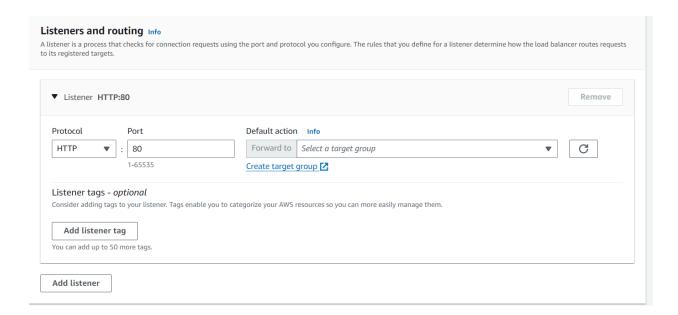
2.choose the network mapping as shown in figure and check and ec2 - instance avaliablity zone mentioned checkbox as below two mapping one default and another one you need mentioned.



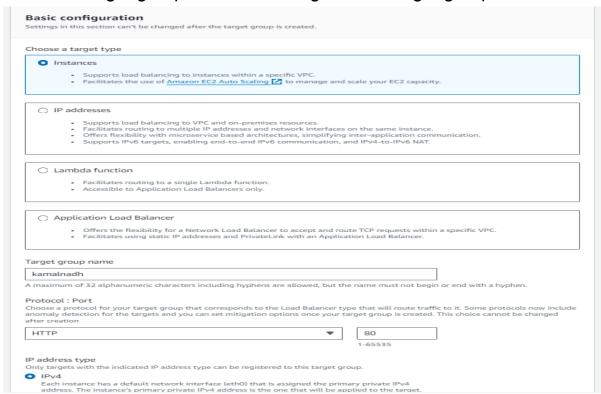
3.choose the security group and menthioned ec2 instance security group one default and another one is ec2 security group



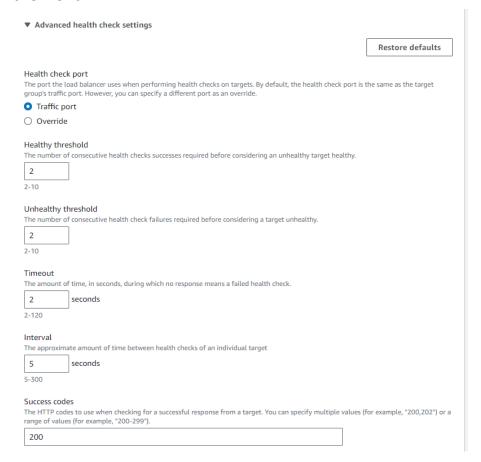
# 4. Application load balance allow only http and https as below



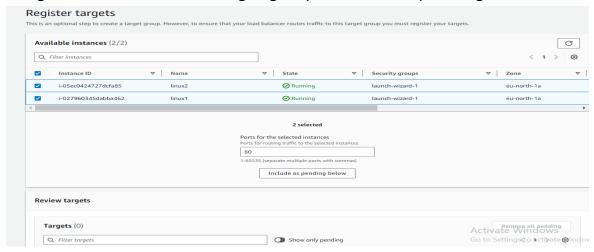
# 5.created target group as below and given the target group name

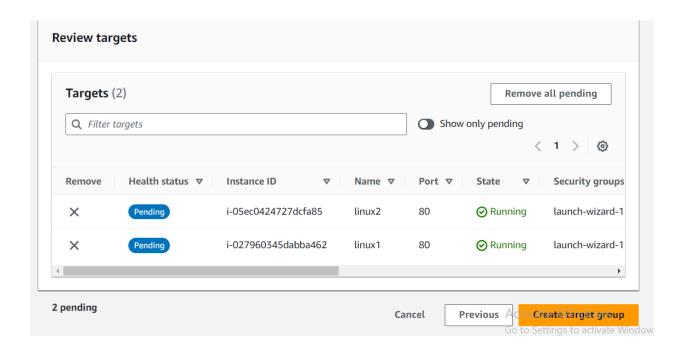


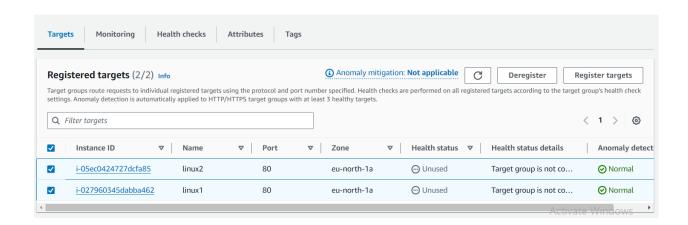
# 6.change the health check and unhealthy check as below as save and go the next



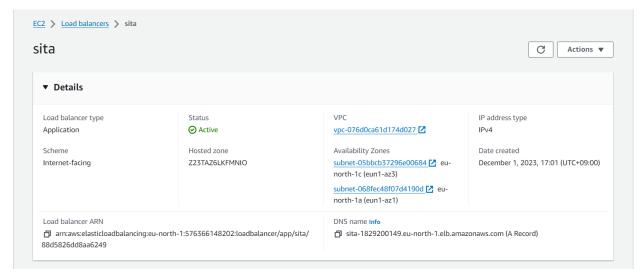
# 7.register two instance in target group as click on pending status







## Go the load balance is the copy as DNS and paste



The paste dns and google chrome if traffic move on one server to another server as shown as figure



Then you refresher as server then move traffic to another webserver as shown in figure

