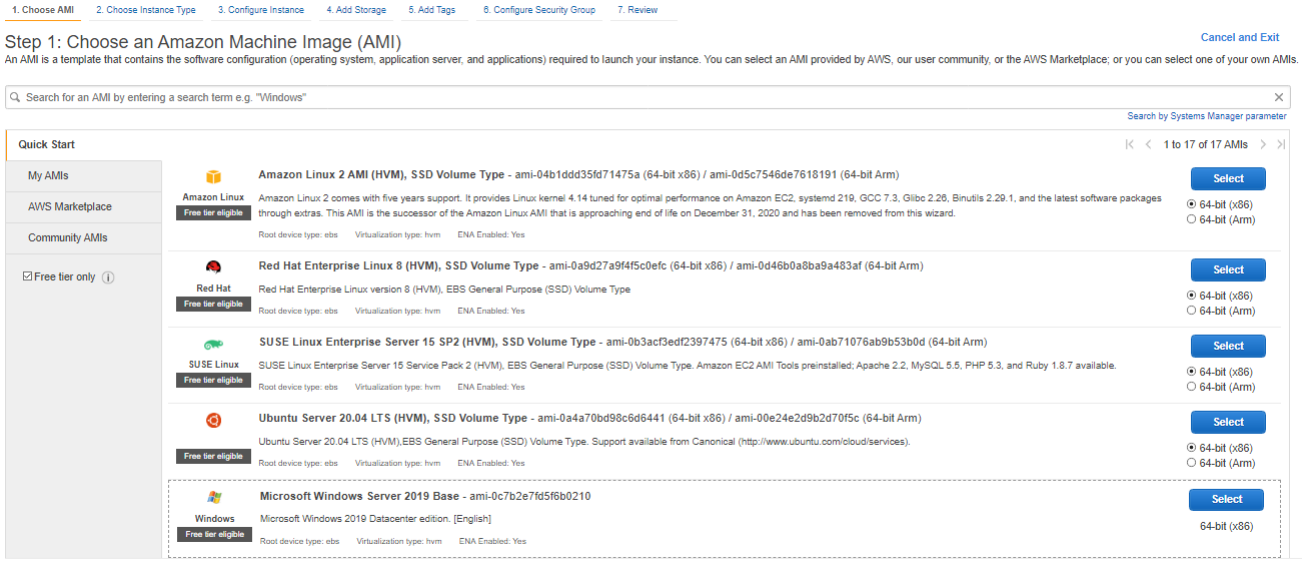
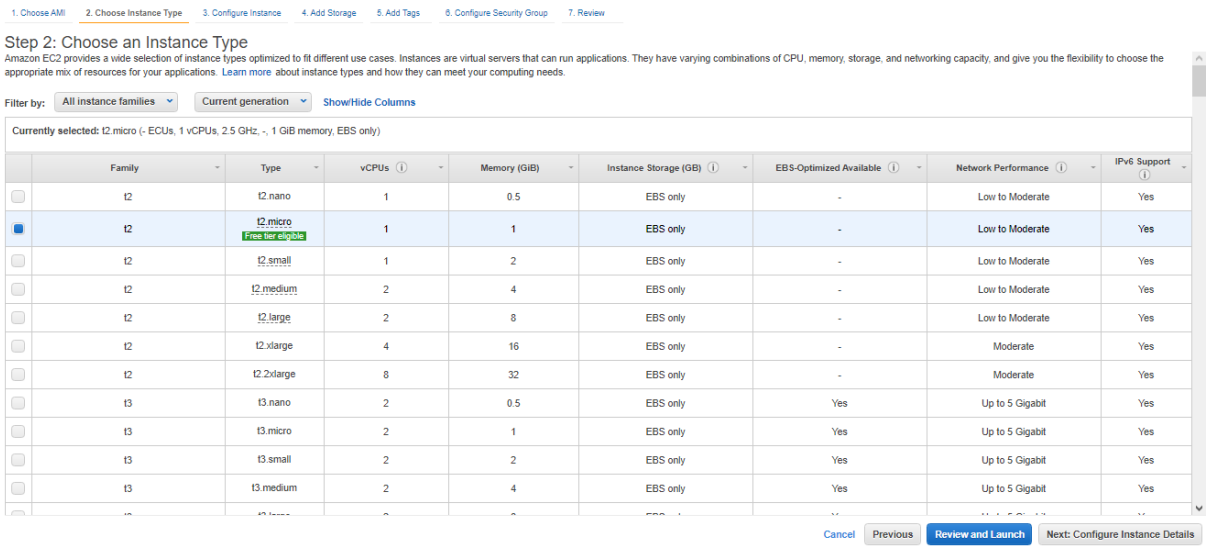
LAB3

Demonstrate Load balancer and Elastic IPs concept in cloud

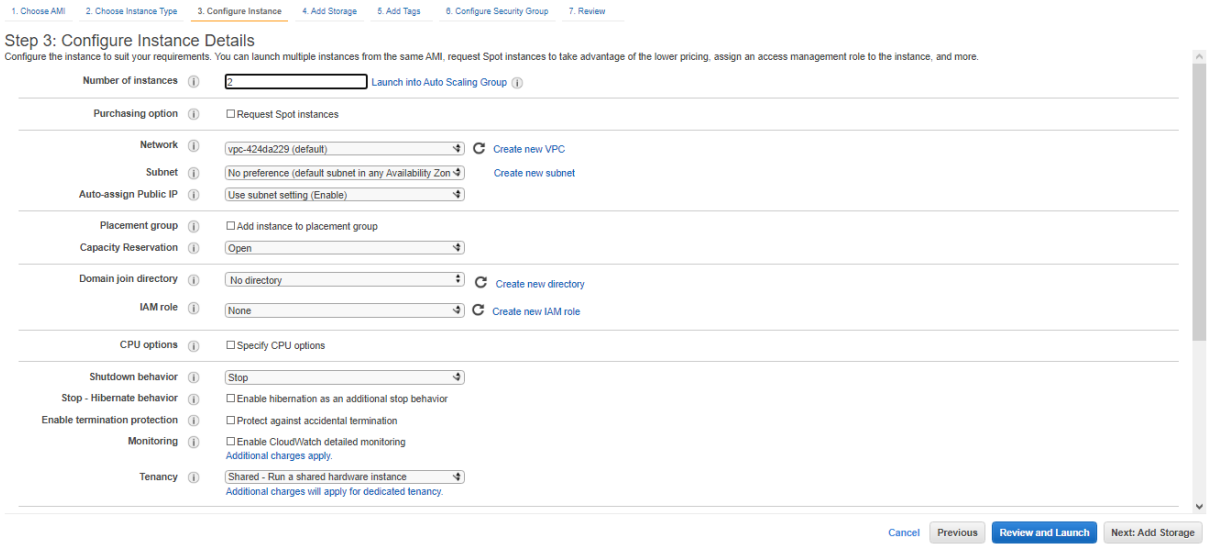
Step1: LOg into the AWS Account.Search for EC2.Select Launch Instances option. Select the Microsoft Windows Server 2019 Base.



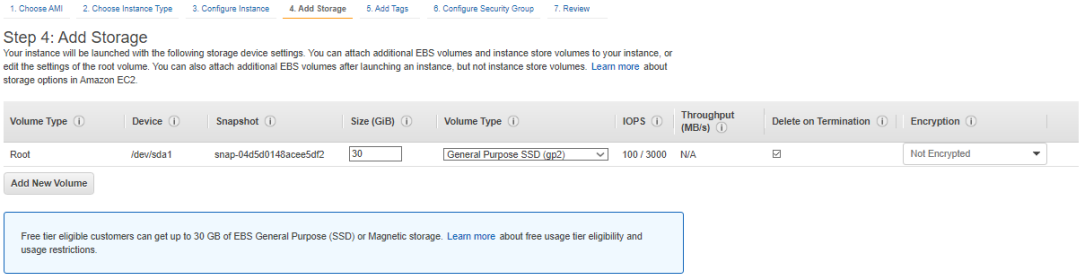
Step2: Choose the Instance Type.



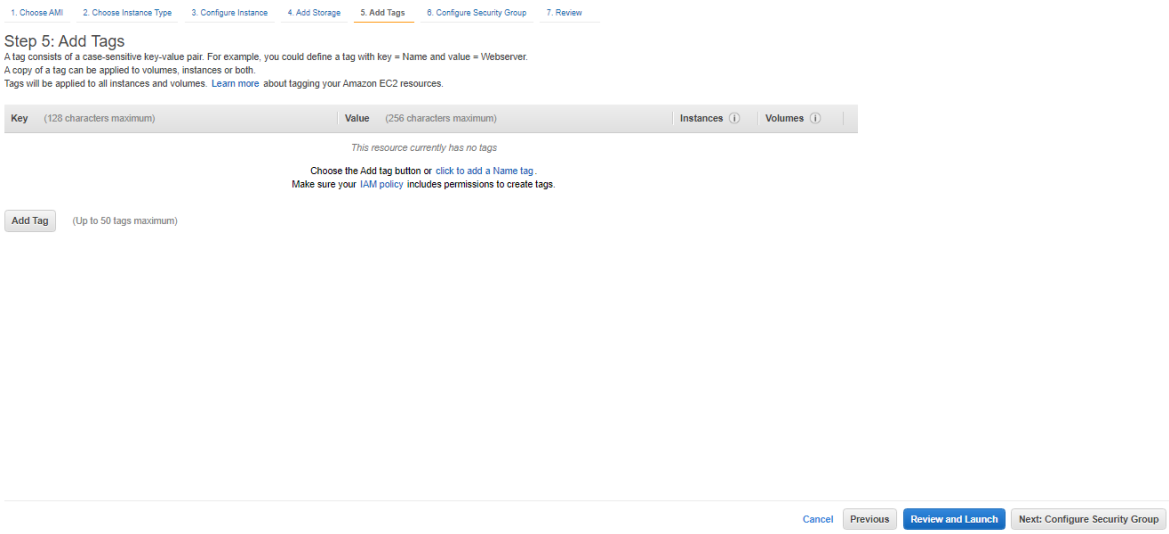
Step 3: Configure the Instance Details.Change Number of Instance to 2.



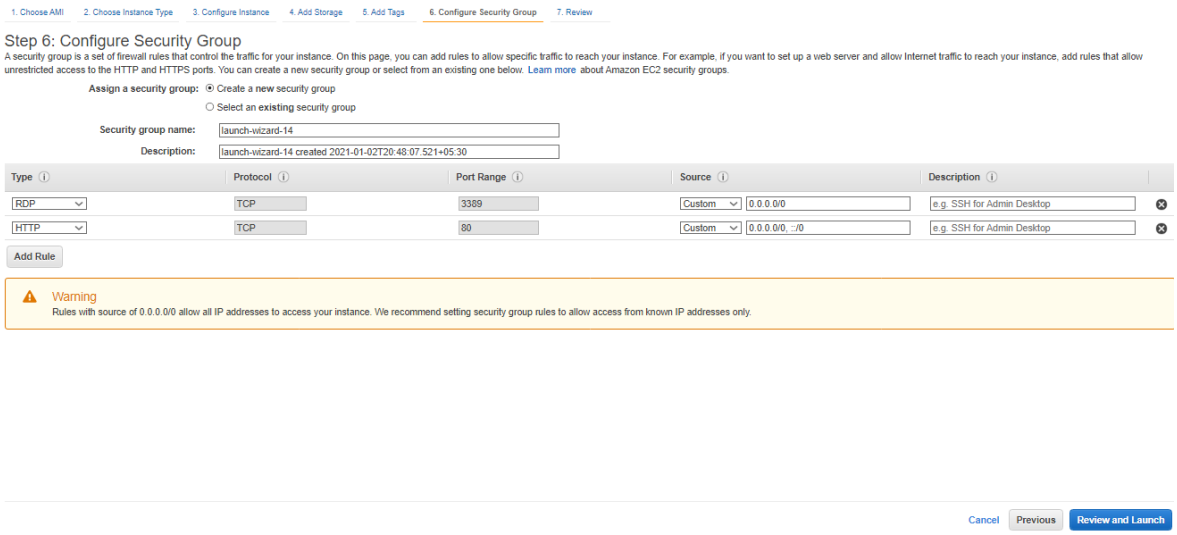
Step4: Add Storage to the Instance.



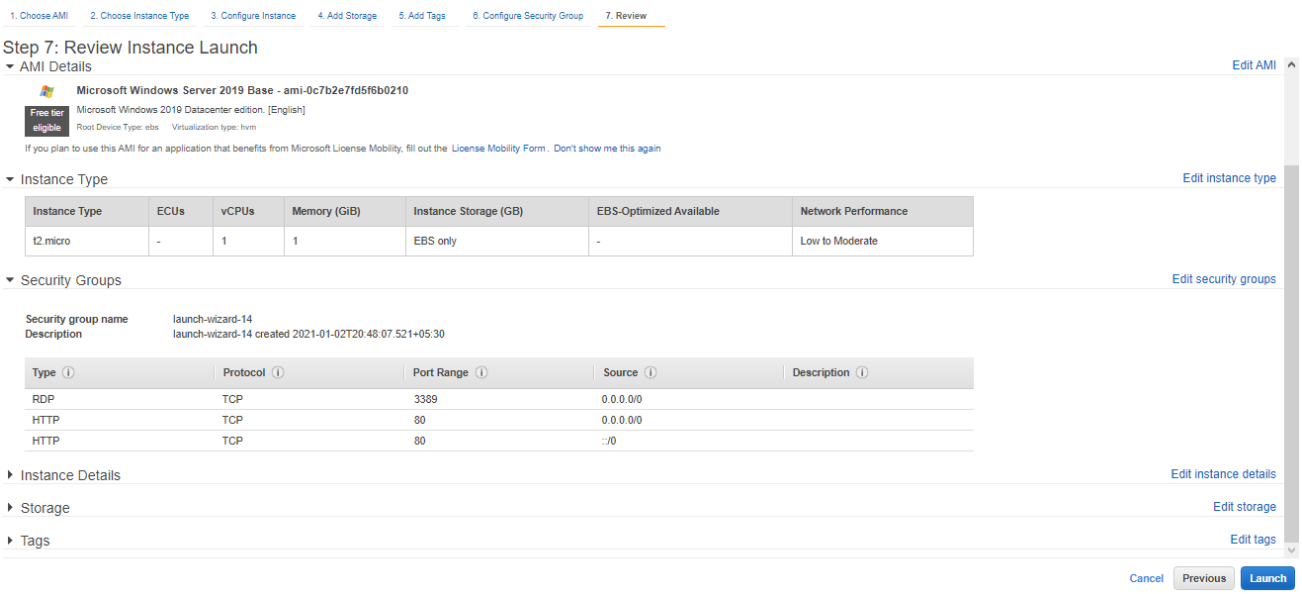
Step5: Add Tags To the Instance if any needed.



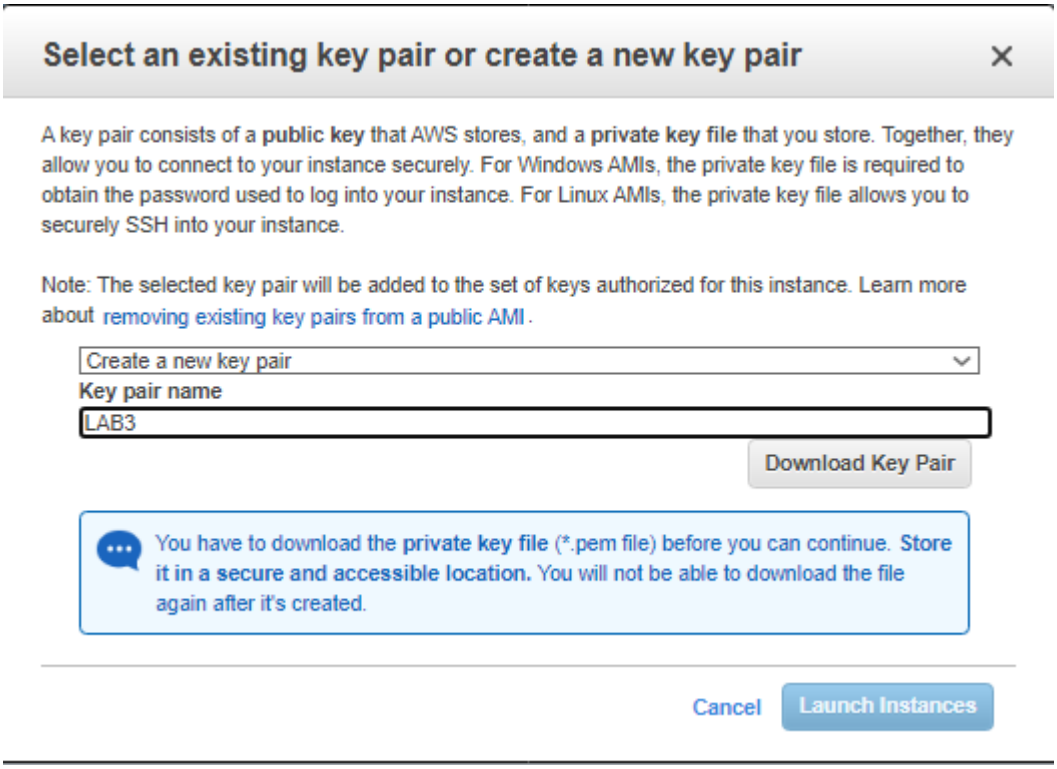
Step 6: Configure Security Group.Add One More Security Http to the Security Group.



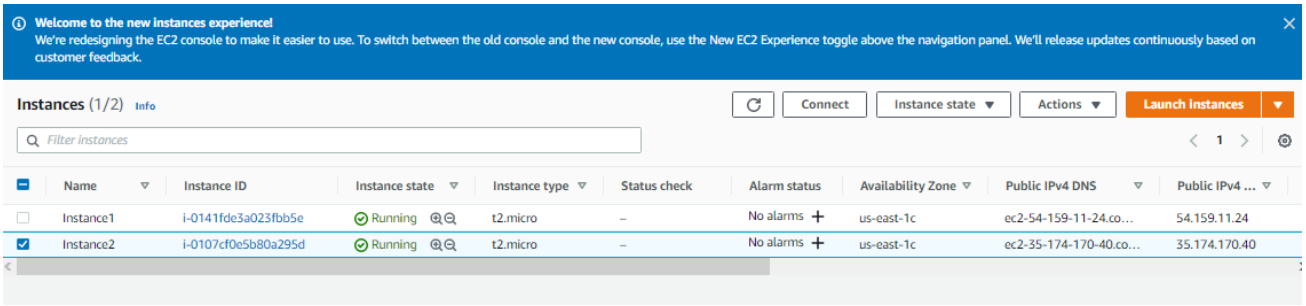
Step 7: Review and Launch the Instance.



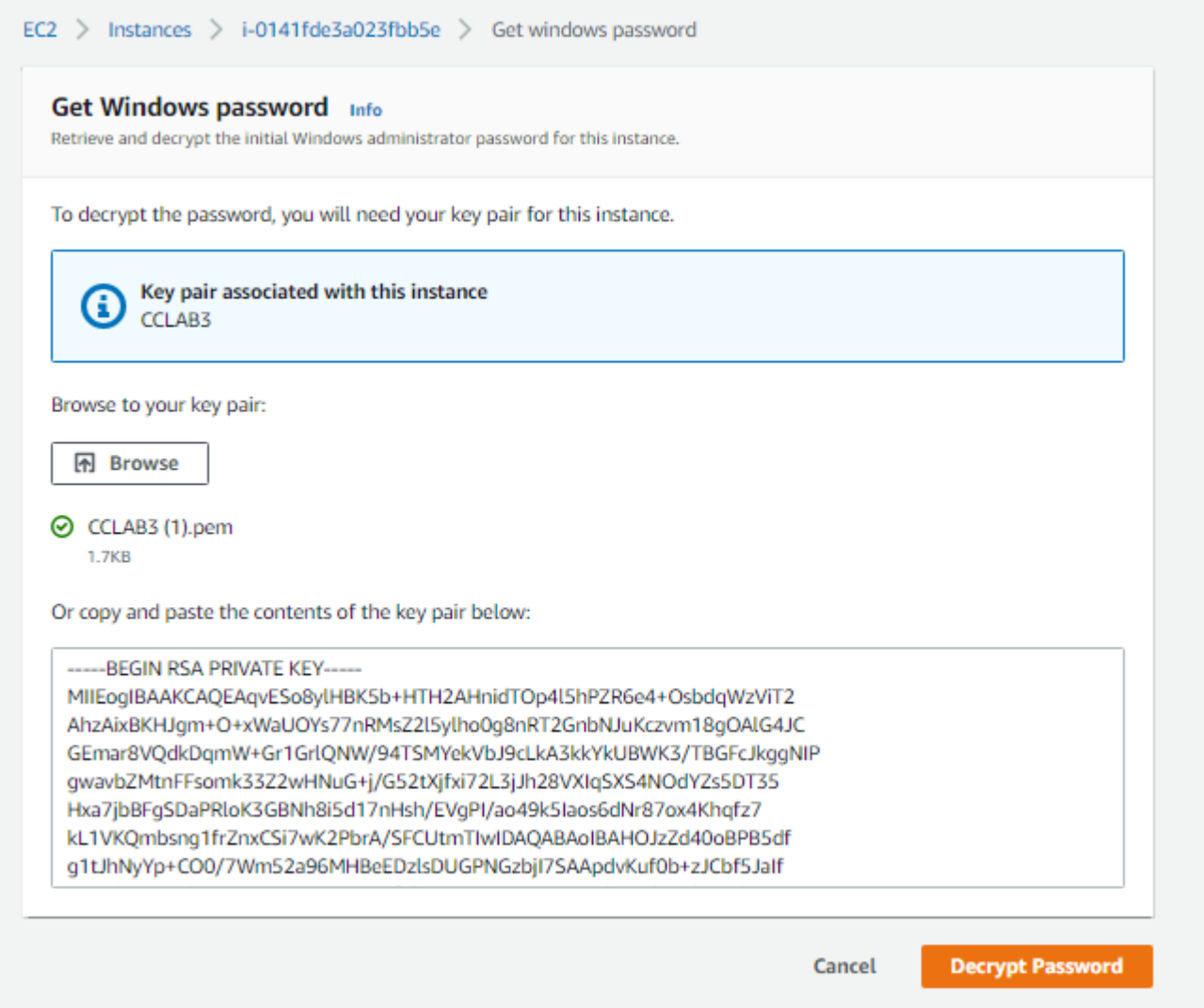
Step 8: During Launching The Instance Select an existing key pair or create a new pair to access the instance.



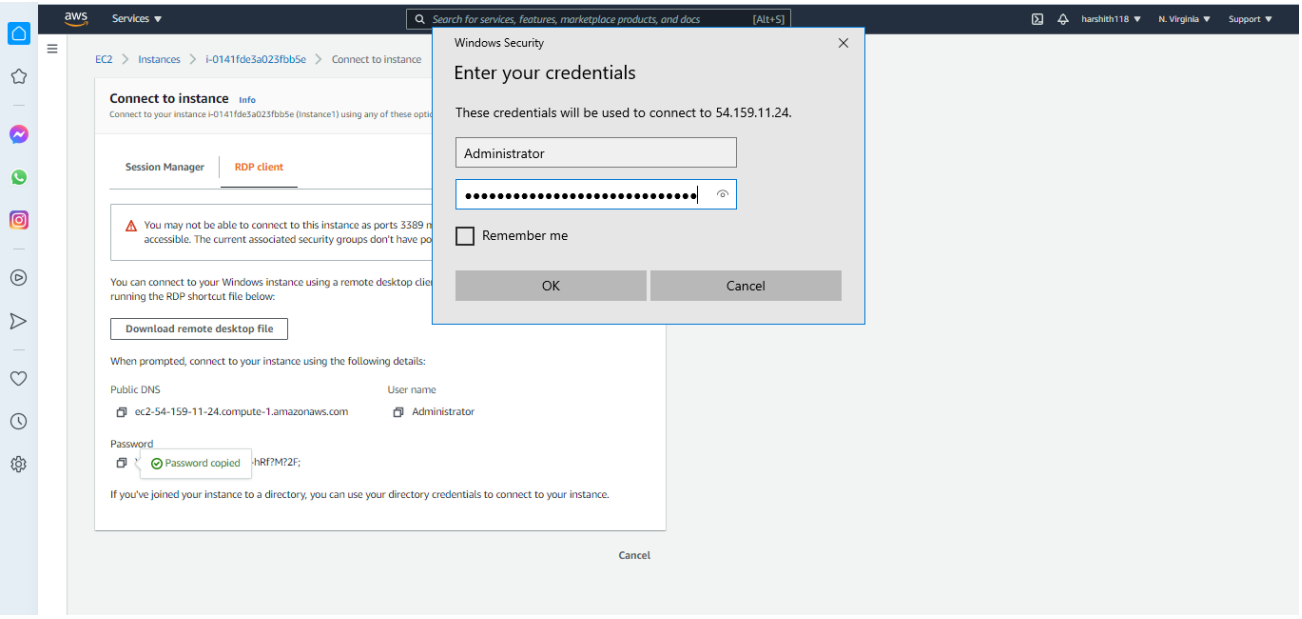
Step 9: Two instances will be created.



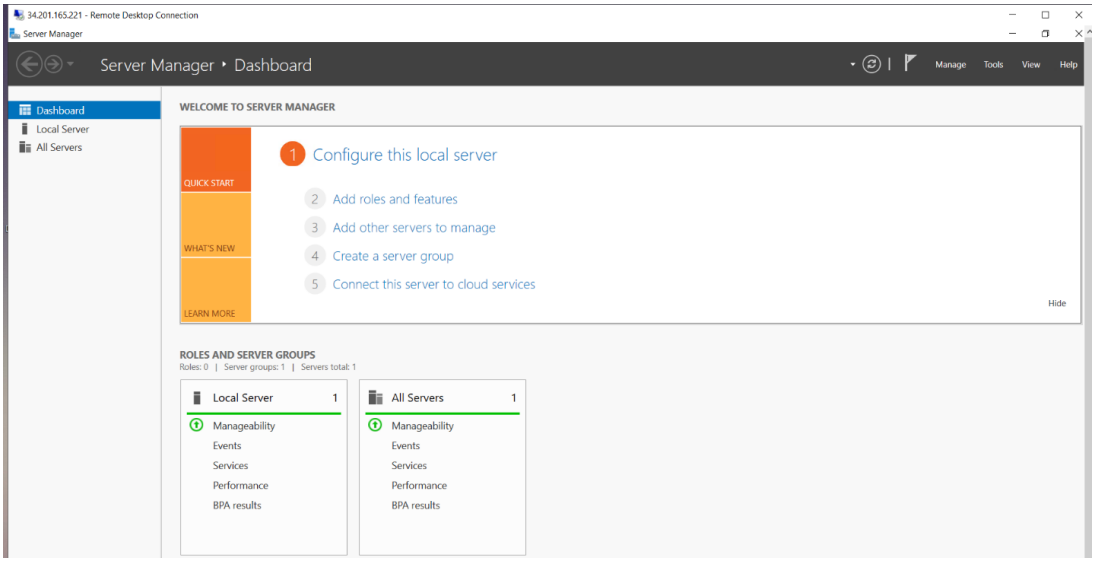
Step10: To launch the instance Decrypt the .pem file we created during the creation of new key pair and get the password.



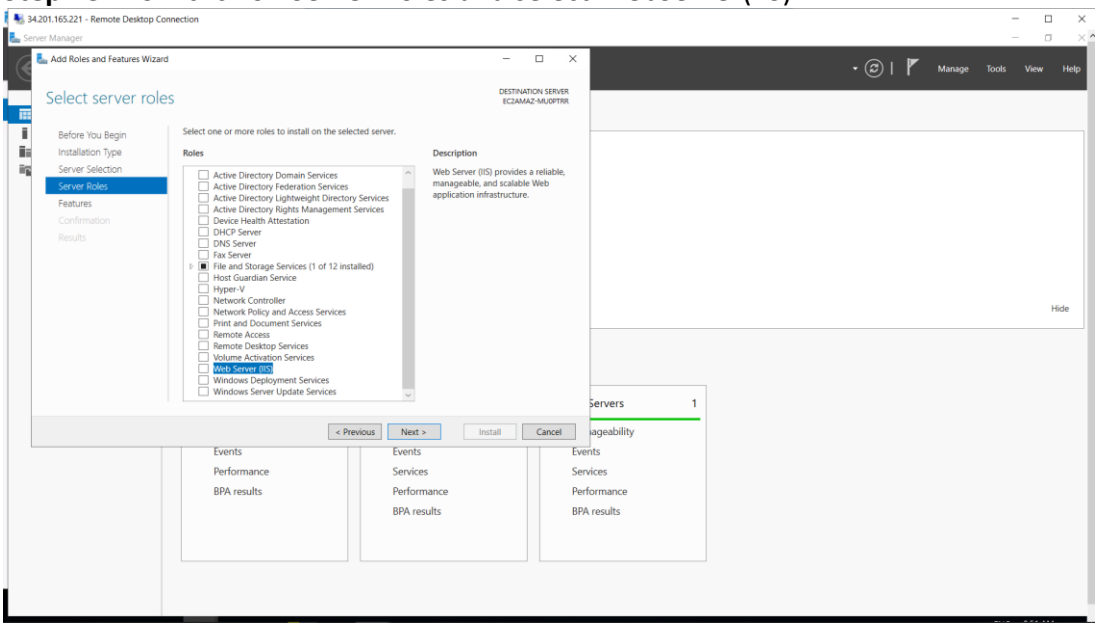
Step11: Enter the Decrypted Password into RDP Client and Launch the Instance.



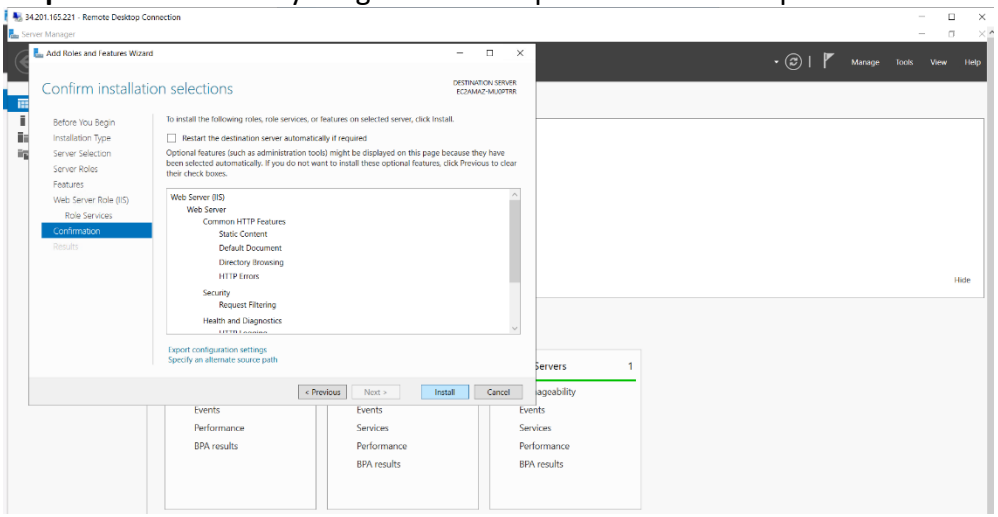
Step 12: Once windows instance launched got to server manager and the click on manage option.



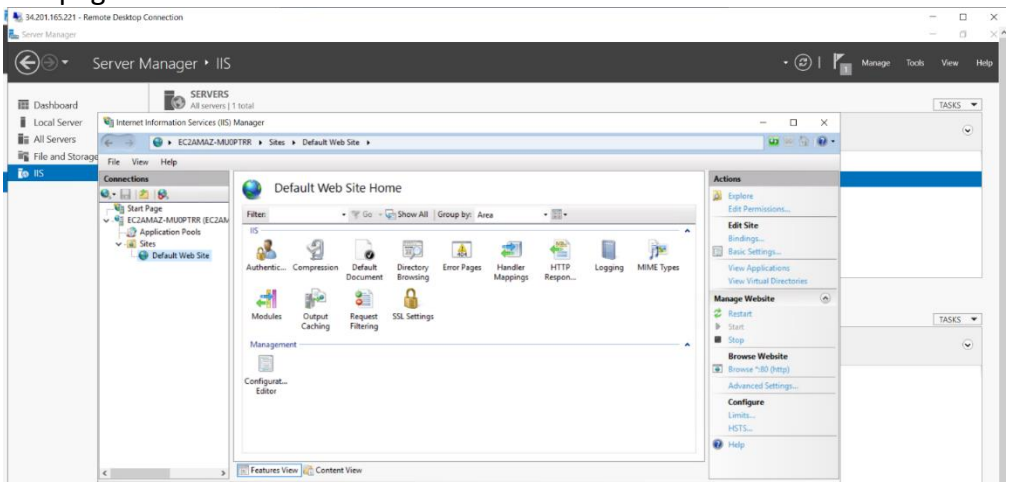
Step 13: Now click on Server Roles and select WebServer(IIS).



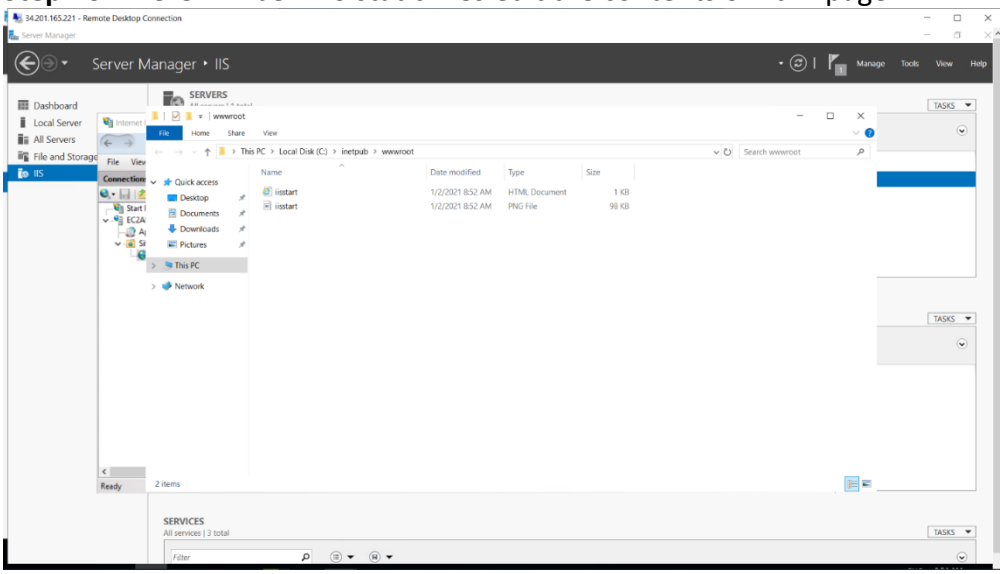
Step 14: Then let everything be default option.Click install option.



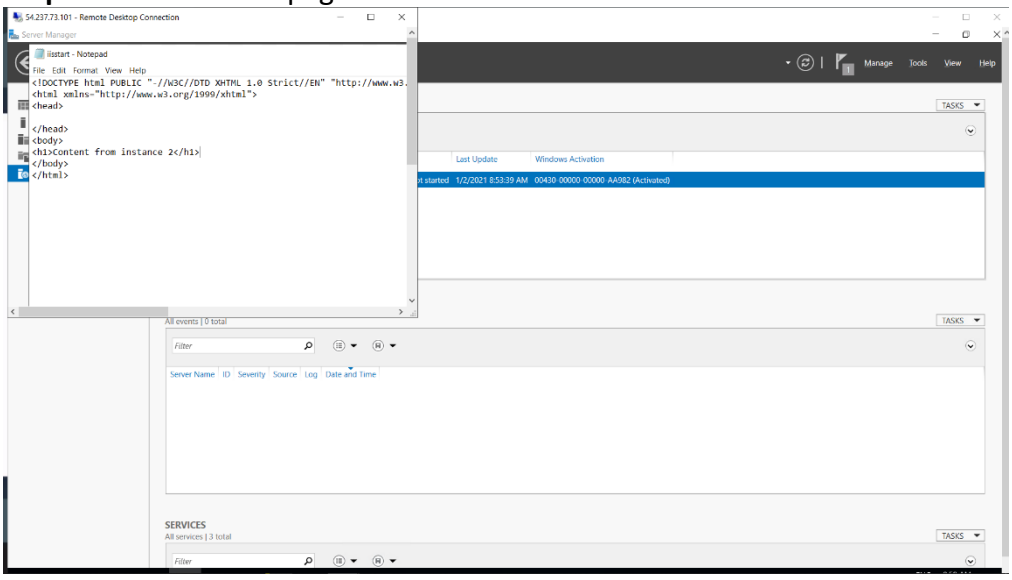
Step 15: Once the installation is completed Right Click on IIS and got to Sites and got to Default site webpage location.



Step 16: There will be Two static files.edit the contents of html page.

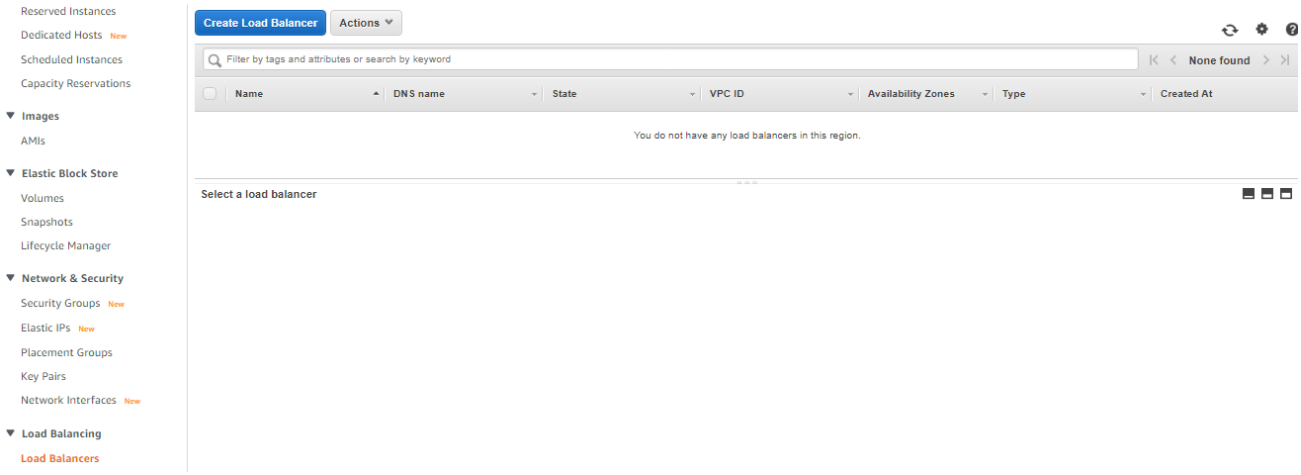


Step 17: Edit the html page and add custom code.

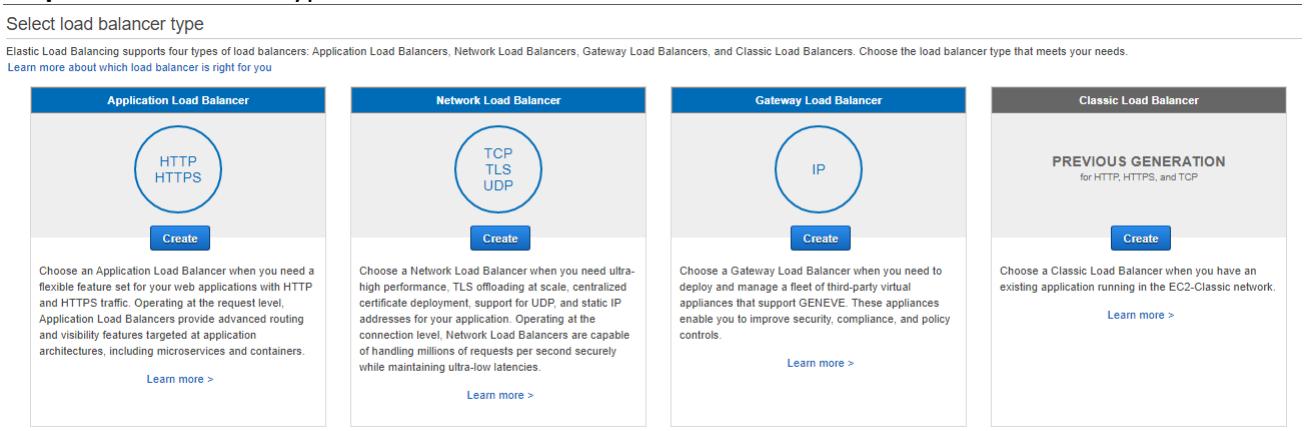


Step 18: Now follow the same steps from step 12to 17 in Instance 2 and edit html page.

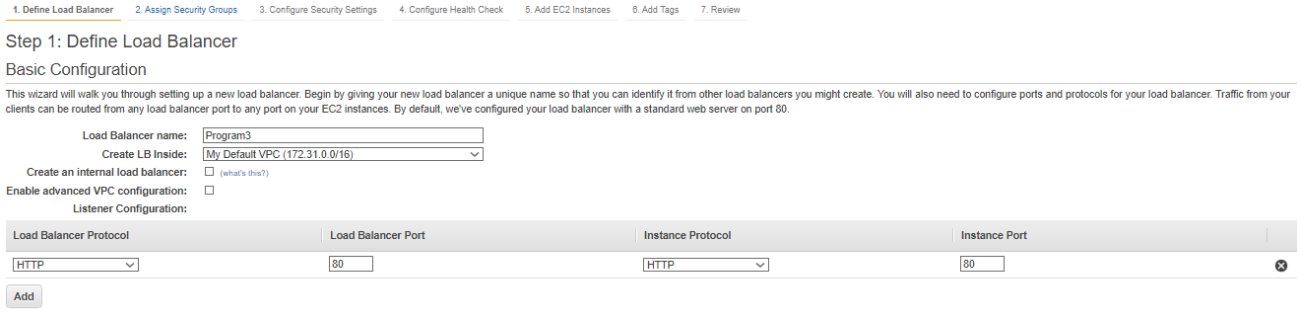
Step 19: Select the Create Load Balancer option.



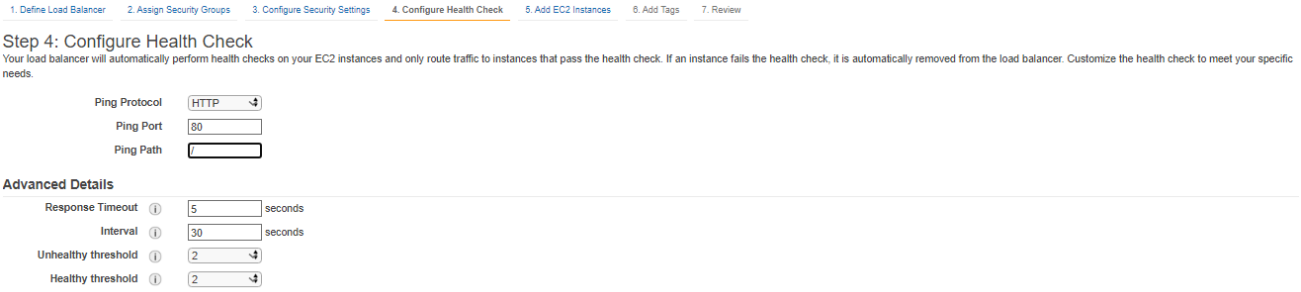
Step 20: Select which type of load balancer need to be created.



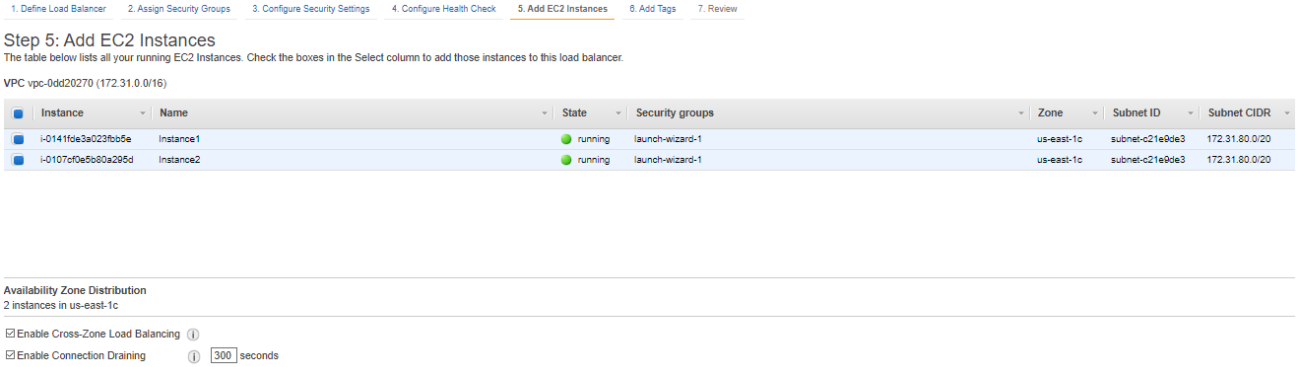
Step21: Define the Load Balancer.



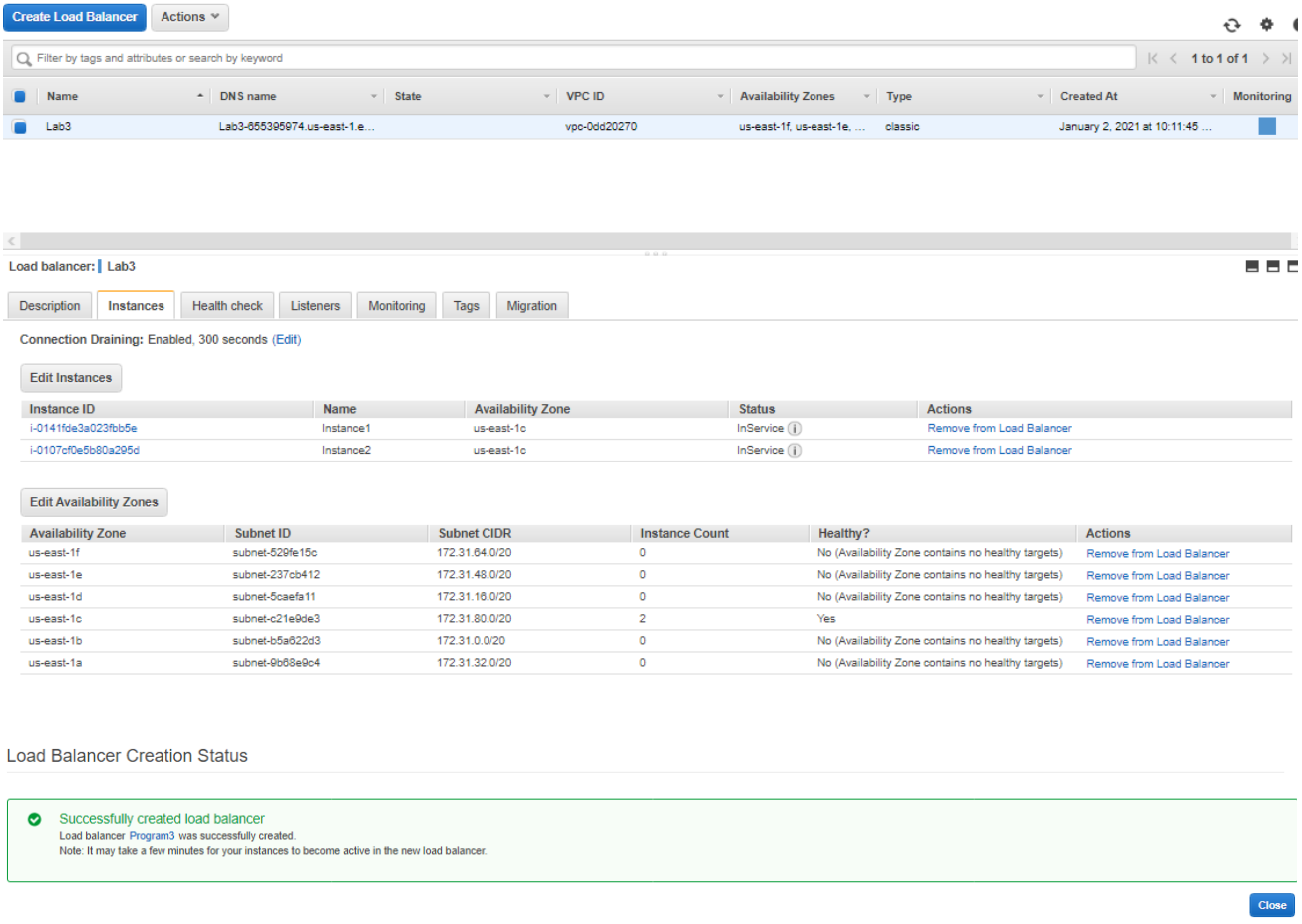
Step22: Configure Health Check.Let Ping path be /(root) and Healthy threshold be 2.



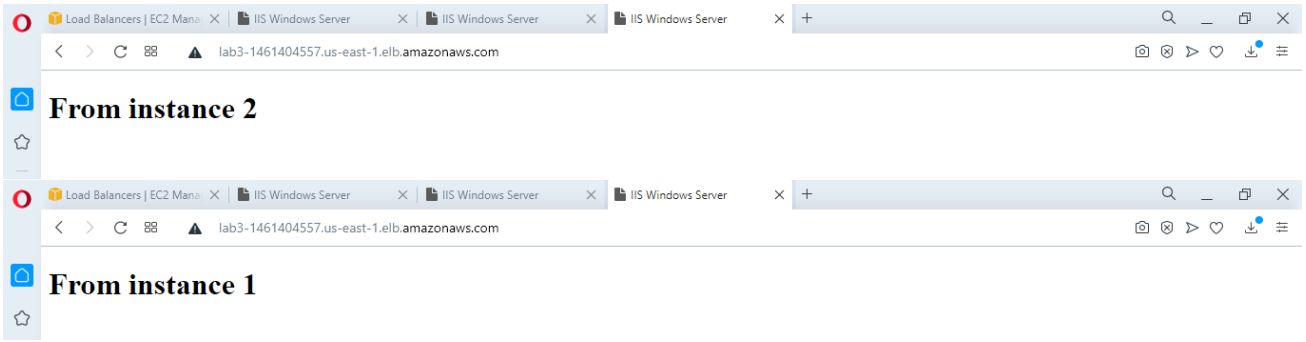
Step23: Add EC2 instances to the Load balancer.



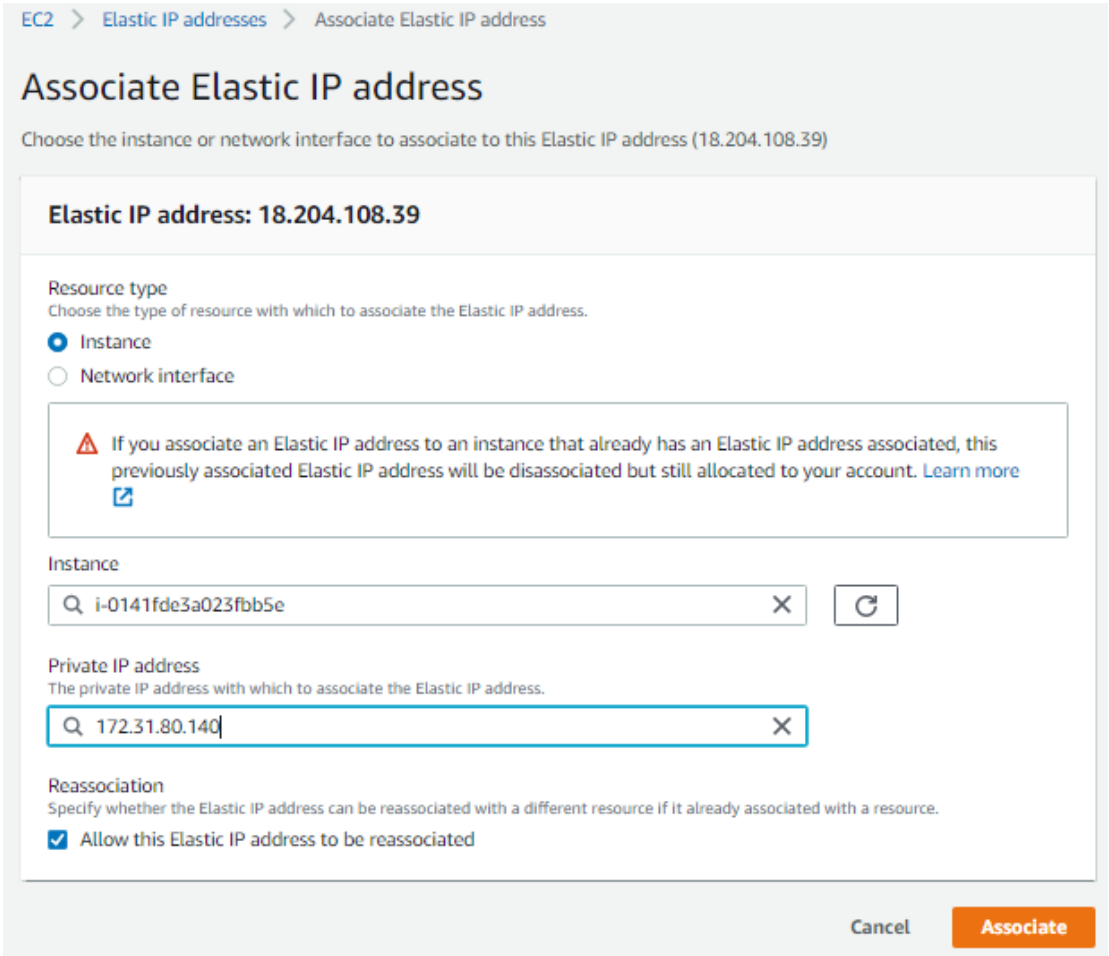
Step24: Review the Load balancer and launch it.



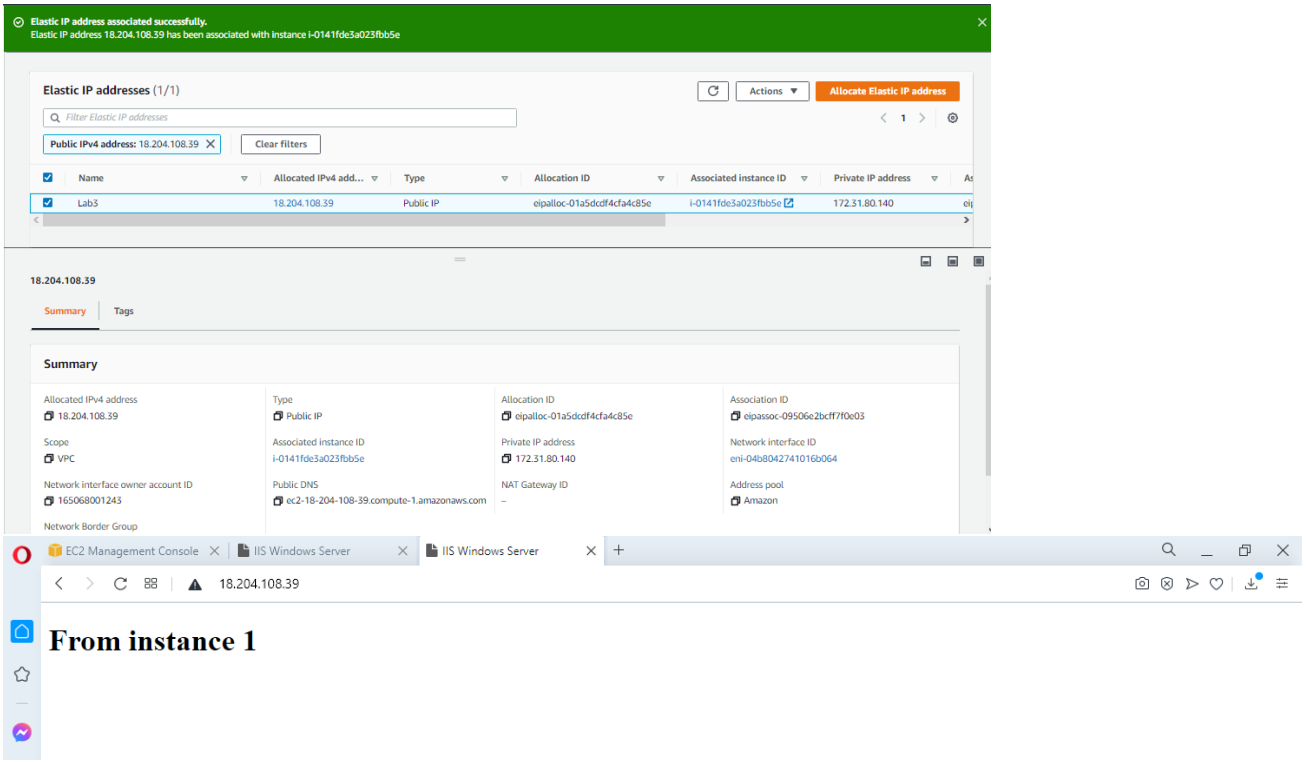
Step25: Now if we enter IP address into browser we can see that Load Balancer transfering the request among multiple windows instance



Step26: To create an Elastic IP select Elastic IP option from AWS and select Create Elastic IP Address.And Select the Network Border Group and Select Public IPv4 address From amazon pool.Also select the Instance.



Step 27: Once the Elastic IP created copy the IP address and Paste it into browser.


Elastic IP address associated successfully.
Elastic IP address 18.204.108.39 has been associated with instance i-0141fde3a023fbb5e
Elastic IP addresses (1/1)
Actions
Allocate Elastic IP address
Filter Elastic IP addresses
Public IPv4 address: 18.204.108.39
Clear filters
Name
Allocated IPv4 add...
Type
Allocation ID
Associated instance ID
Private IP address
Lab3
18.204.108.39
Public IP
eipalloc-01a5dcdf4cfa4c85e
i-0141fde3a023fbb5e
172.31.80.140
18.204.108.39
Summary
Tags
Summary
Allocated IPv4 address
18.204.108.39
Type
Public IP
Allocation ID
eipalloc-01a5dcdf4cfa4c85e
Association ID
eipassoc-09506e2bcff7f0e03
Scope
VPC
Associated instance ID
i-0141fde3a023fbb5e
Private IP address
172.31.80.140
Network interface ID
eni-04b804274101 6b064
Network interface owner account ID
165068001243
Public DNS
ec2-18-204-108-39.compute-1.amazonaws.com
NAT Gateway ID
Address pool
Amazon
Network Border Group

EC2 Management Console
IIS Windows Server
IIS Windows Server
18.204.108.39
From instance 1