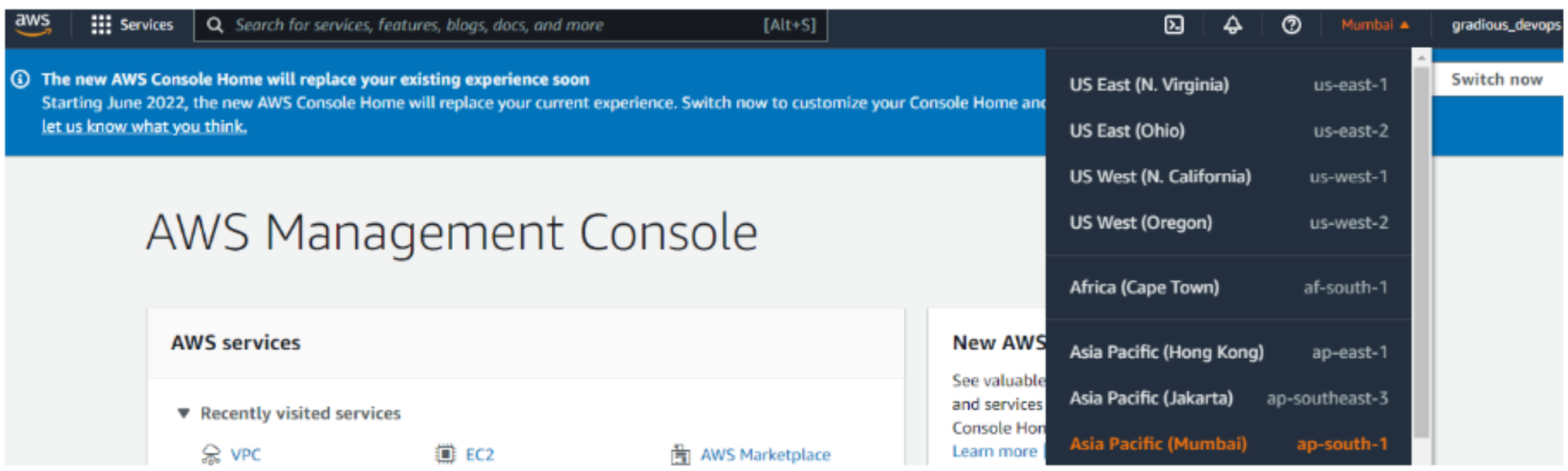
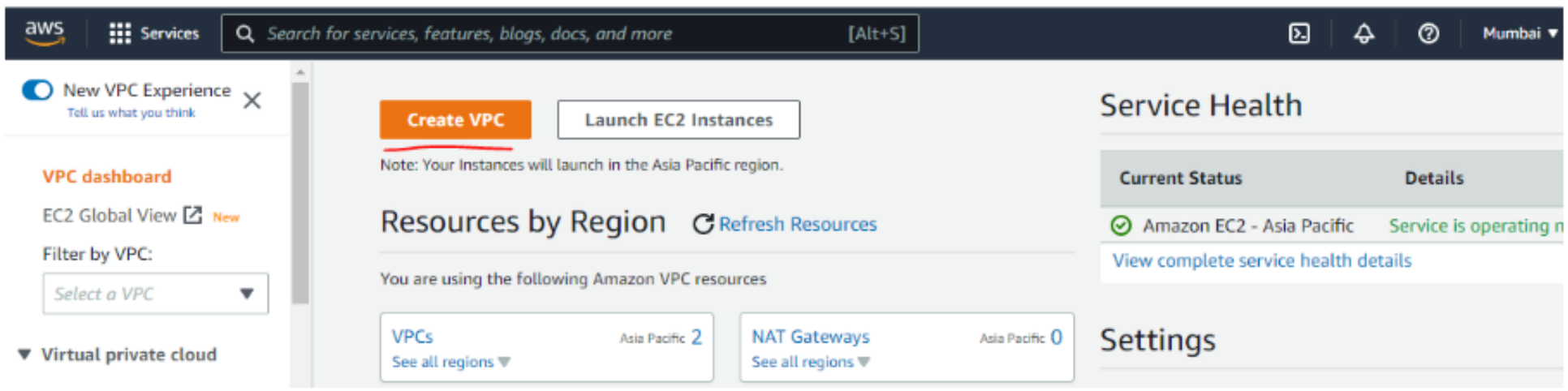
Configure and launch EC2 public instance in AWS

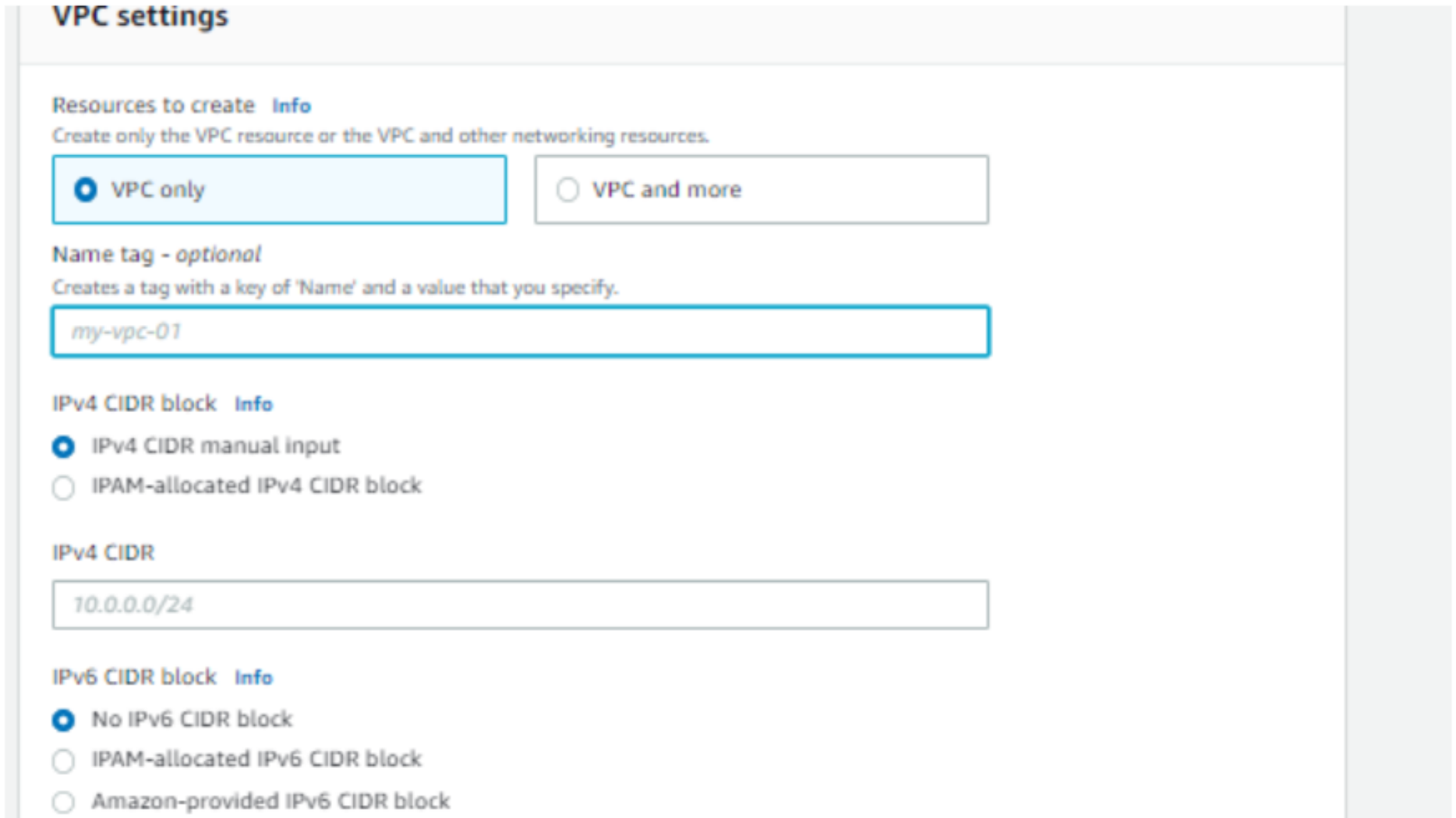
1. Login to your AWS console and choose the region allocated for you from the dropdown say : Asia Pacific (Mumbai)



2. Search VPC service Create a custom VPC by selecting VPC from the services list and click on ‘create VPC’

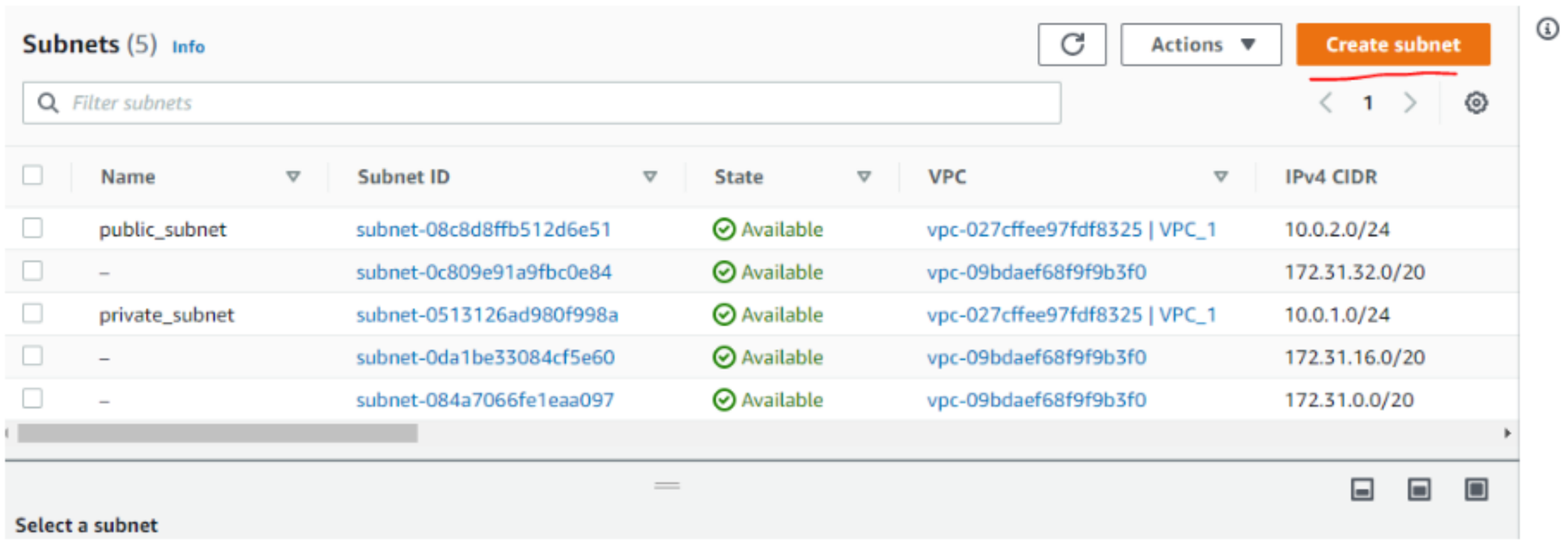


3. Select the option “VPC only” Provide any VPC tag name and in the field of IPv4 CIDR provide 10.0.0.0/16
(you can create 2^16 that is 65,536 number of ip address) and click on create VPC

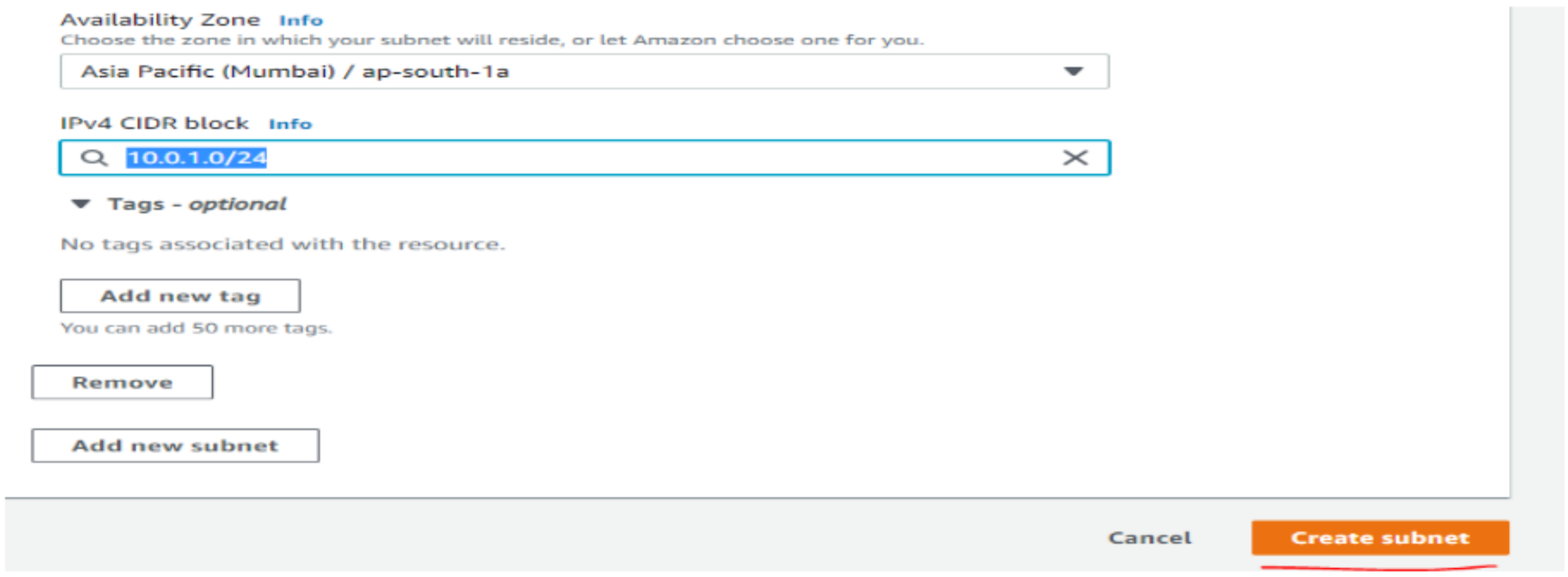


4. Your custom VPC will be created and displayed as below

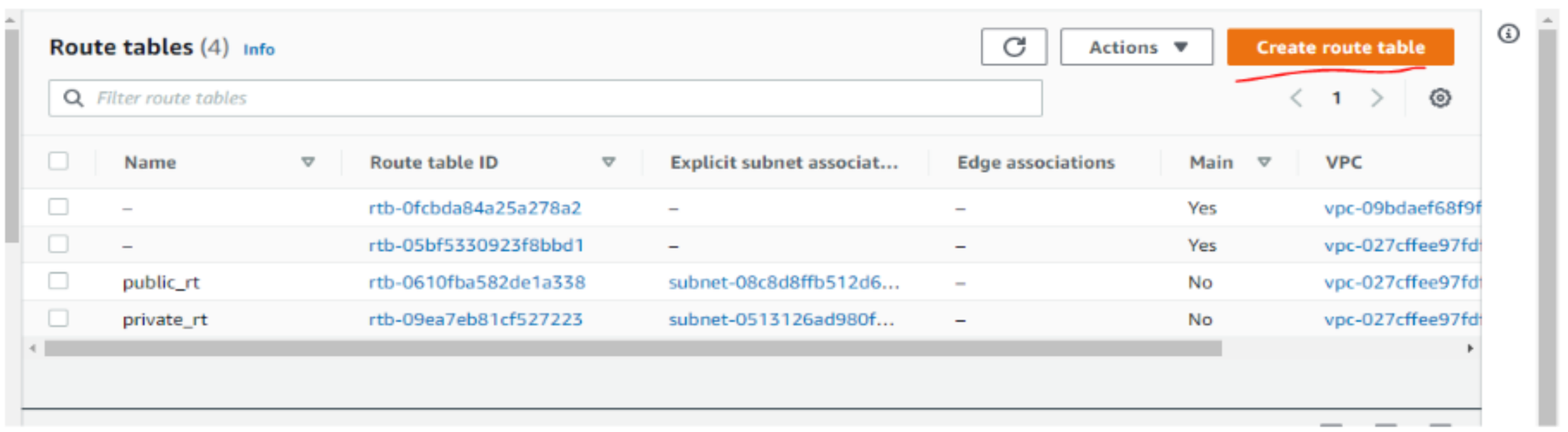
5. Search and navigate to ‘Subnet’ module from the services and click on ‘create subnet’



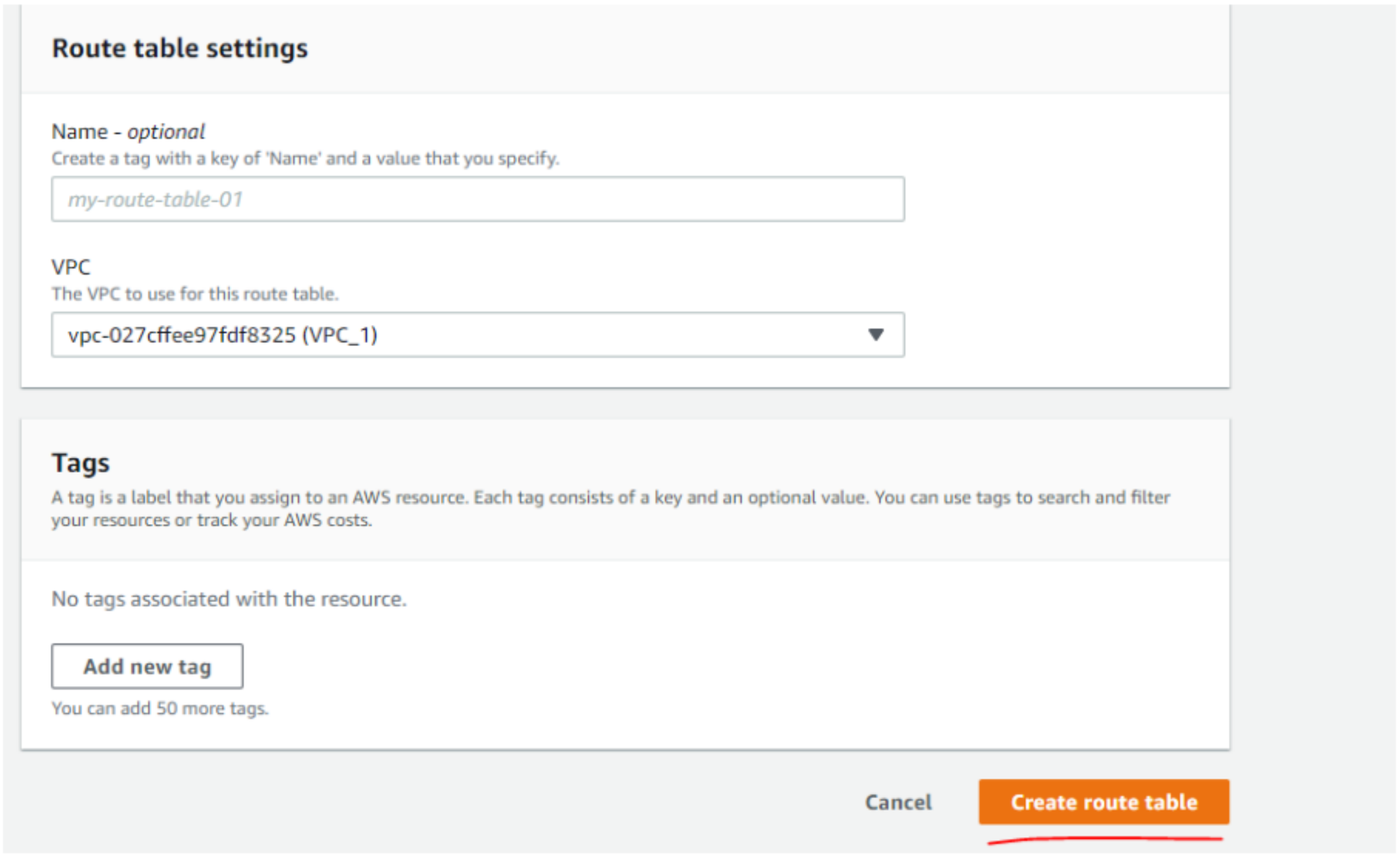
6. Provide the Subnet name (ex: public subnet) select the VPC that you have created Previously and navigate to the subnet settings, now select an availability zone as per your region. Provide IPv4 CIDR block (10.0.1.0/24) . Click on Create Subnet



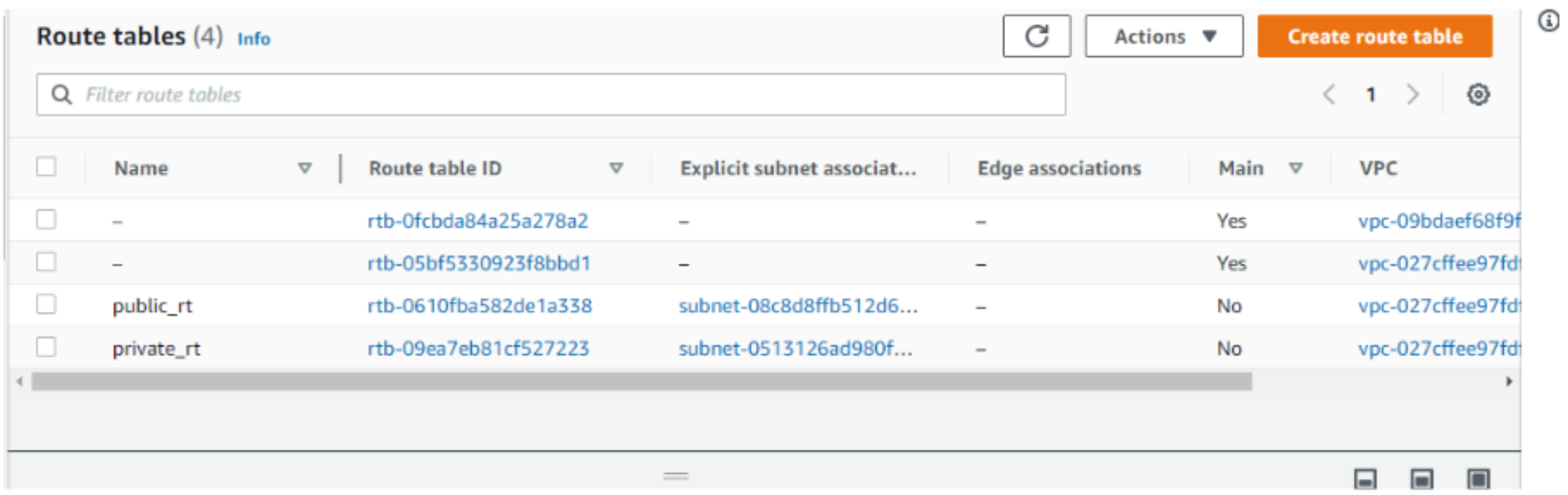
7. Search and navigate to Route Table feature and click on ‘create Route Table’



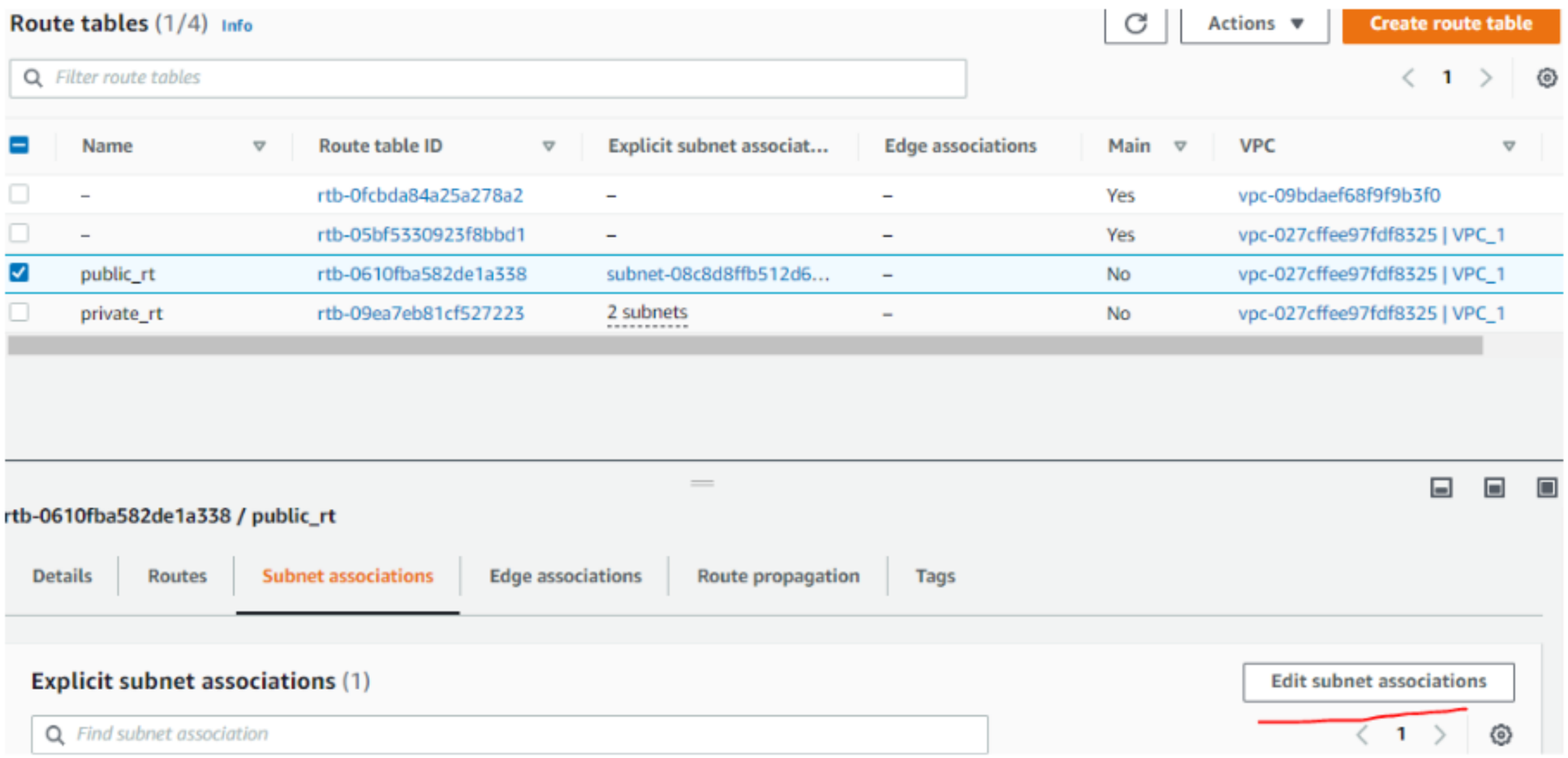
8. Provide the name for the Route table ex: public_rt and select the VPC that you have created and click on ‘Create Route table’



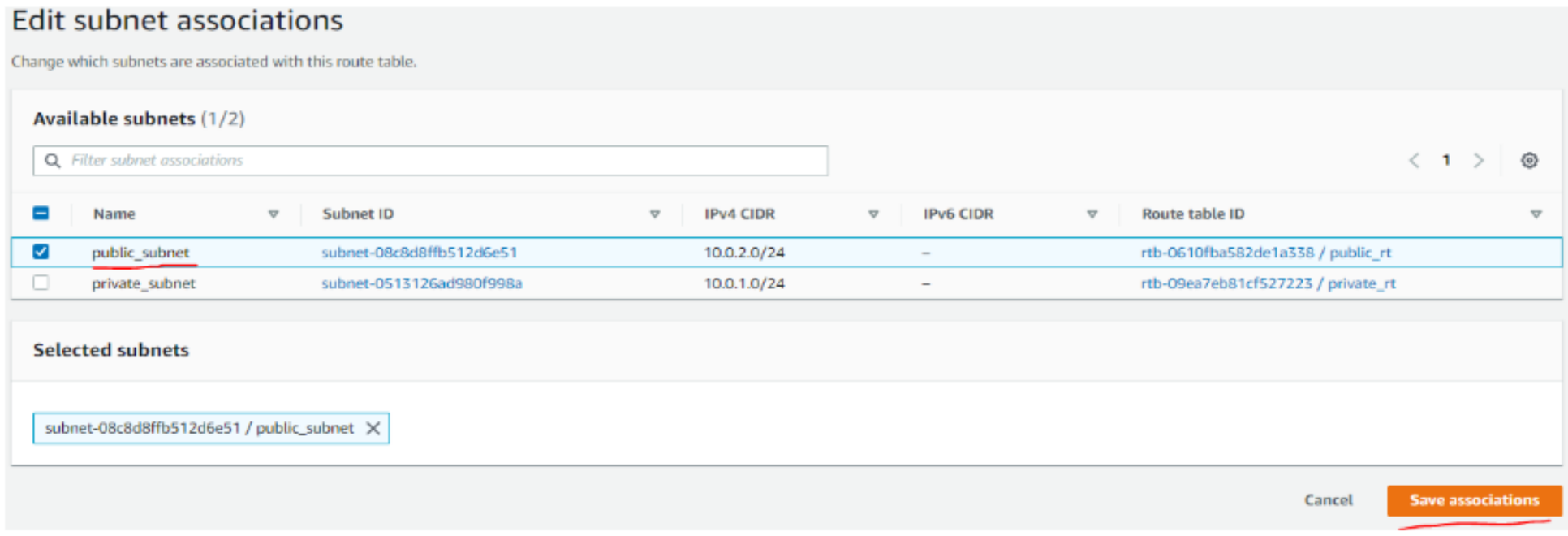
9. Route table will be created and displayed as below



10. Now Click on subnet associations by selecting the Route Table that you have created previously

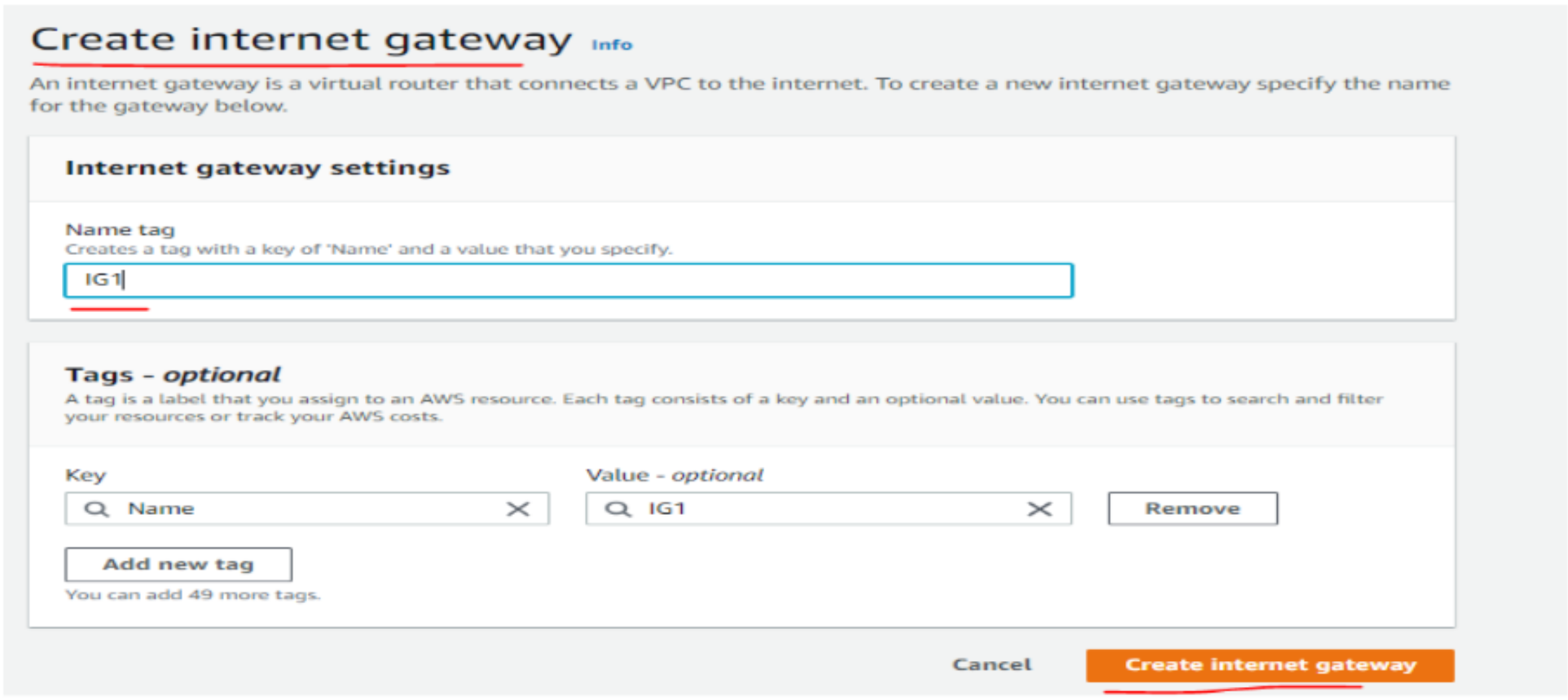


11. Now click on “Edit subnet association” and make a check on the subnet that you have created and click on save changes (Note : In your case select the subnet that you have created)

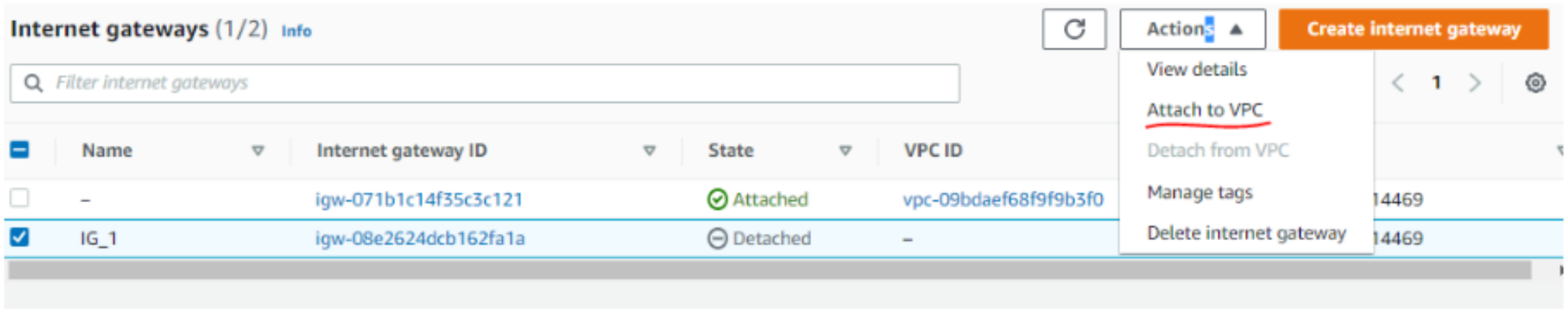


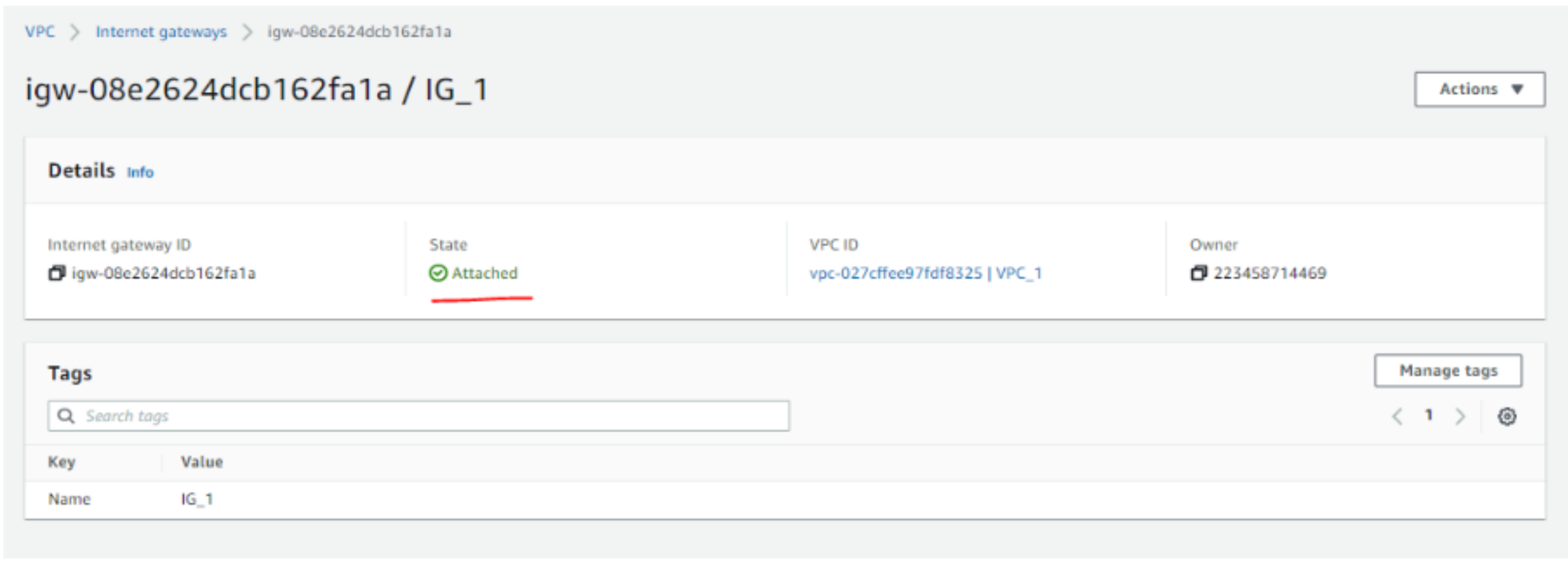
12. Search and Navigate to the Internet Gateway and click on ‘Create internet gateway’

13. Provide any name to the Internet gateway and click on ‘Create internet gateway’ to get created . Initially the Internet Gateway will be in a detached state.



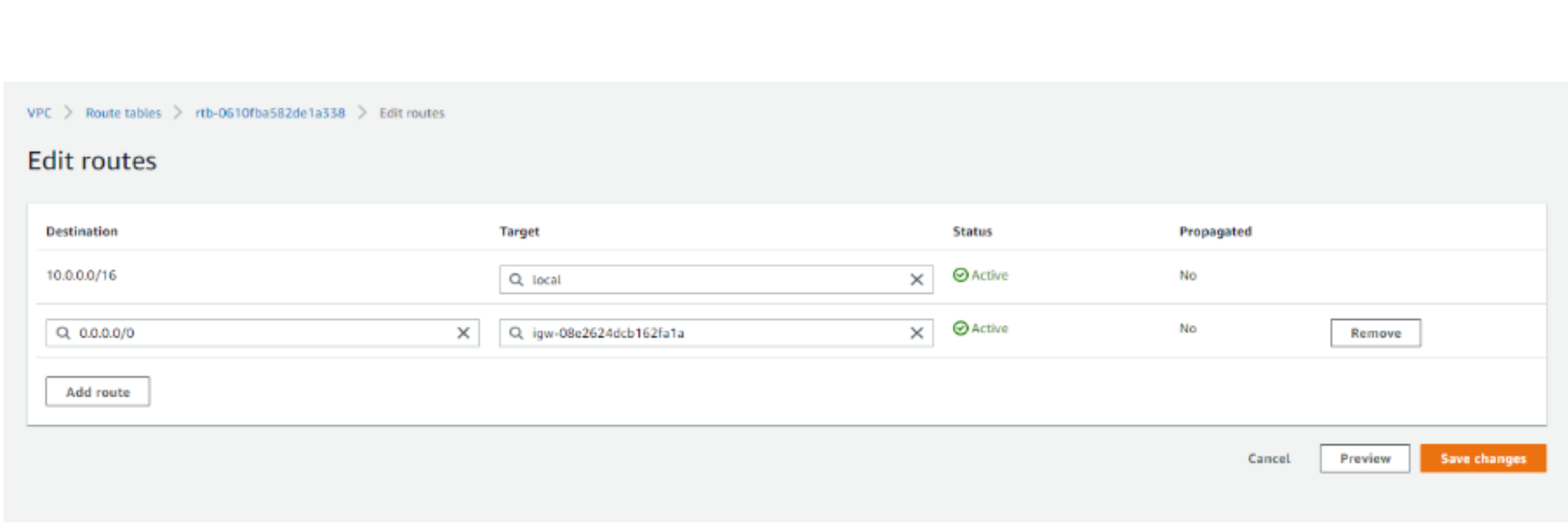
14. Now Select the Internet Gateway you have created and click on Actions and select ‘Attach to VPC’ select the VPC and click on ‘Attach Internet gateway’. Now the Internet gateway state changes to ‘attached’



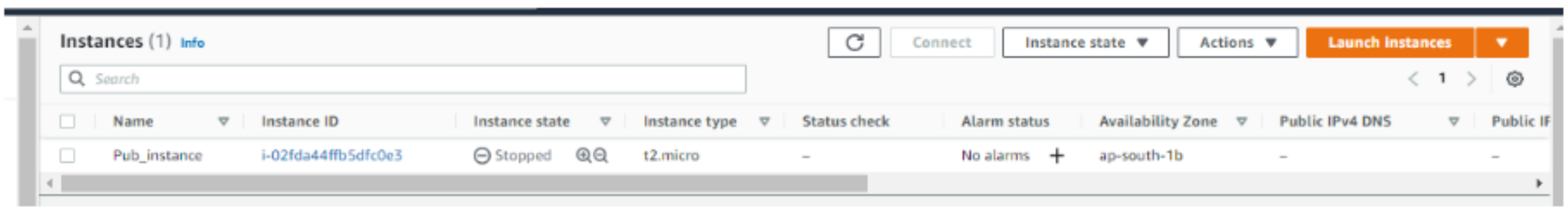


15. Navigate to Routtable , click on the route table that you have created and then click on Routes

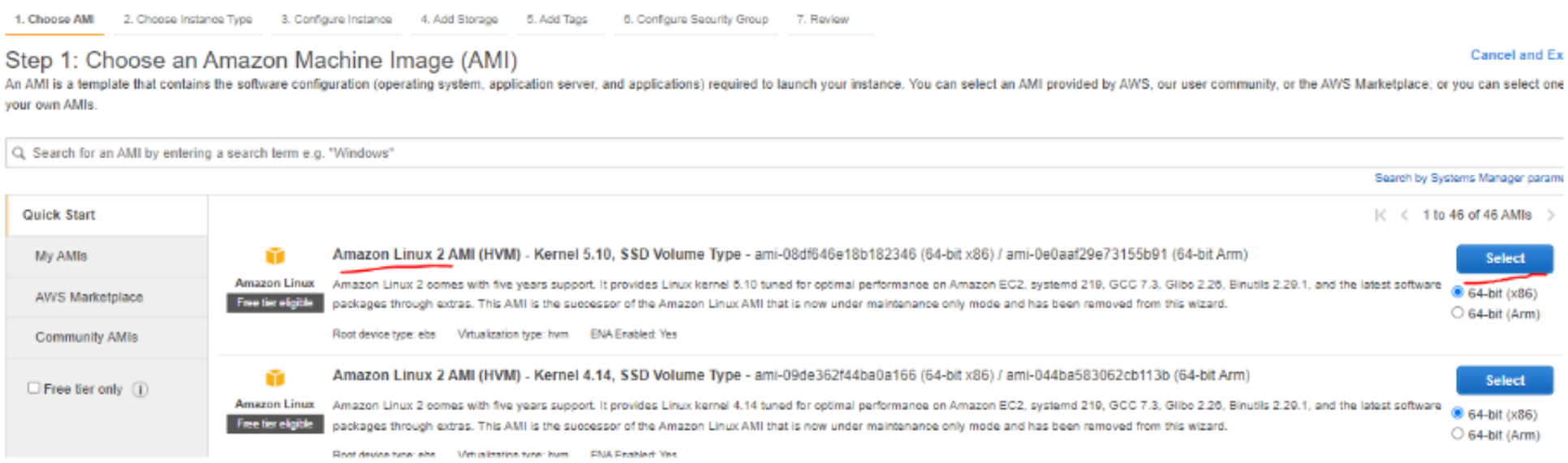
16. Now click on Edit Routes and then Click on Add Route . Provide 0.0.0.0/0 in the Destination and in the Target select the Internet Gateway and select the IG that you have created previously. Click on Save changes.



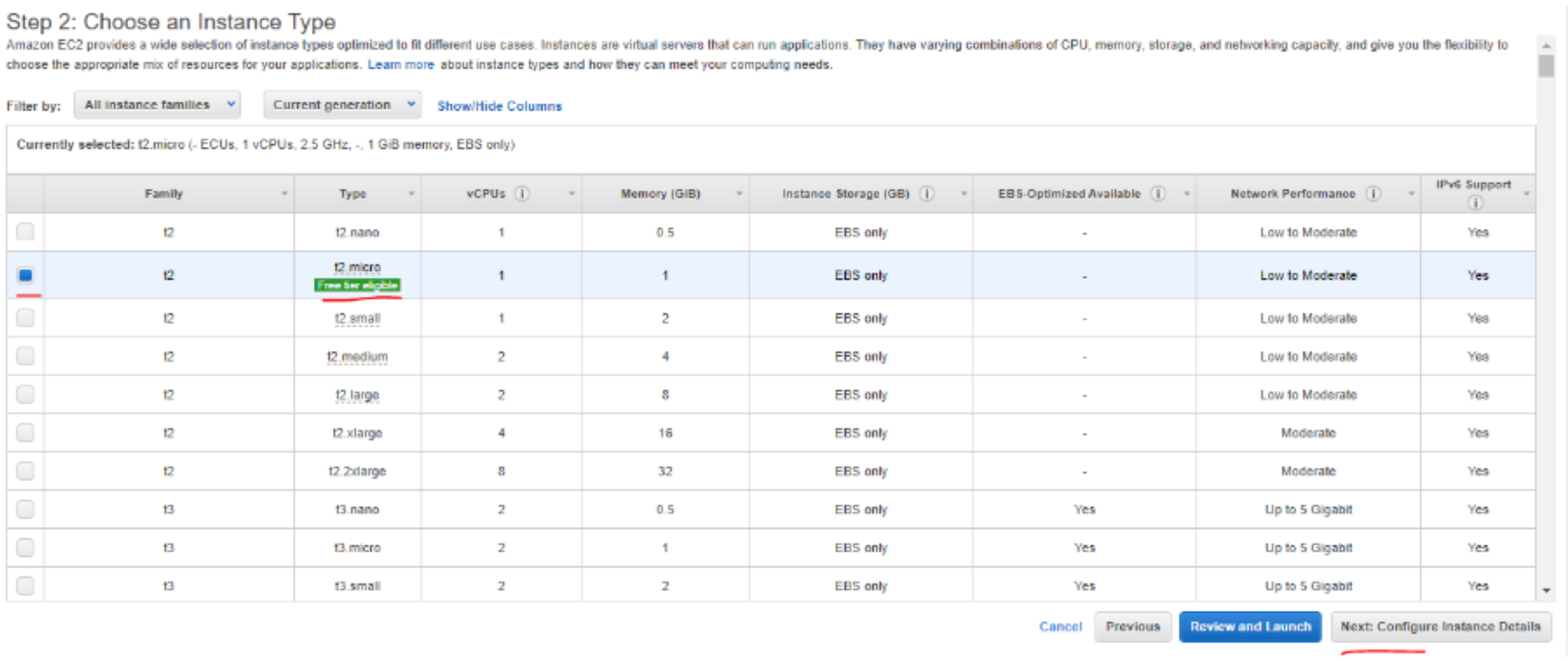
16. Search and Navigate to ‘Instances’ option and click on launch instance



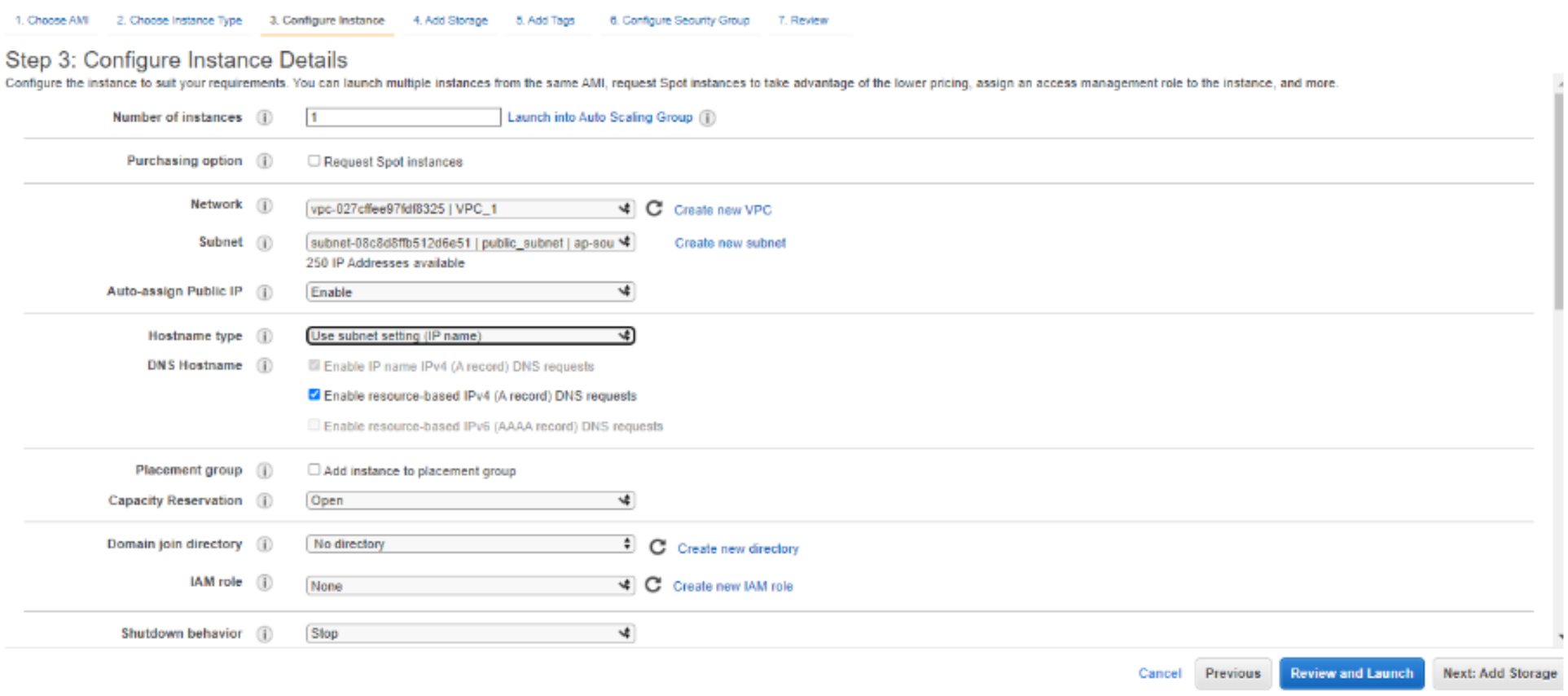
17. Now, you need to select the Amazon Machine image (AMI) from the from the list , select the default



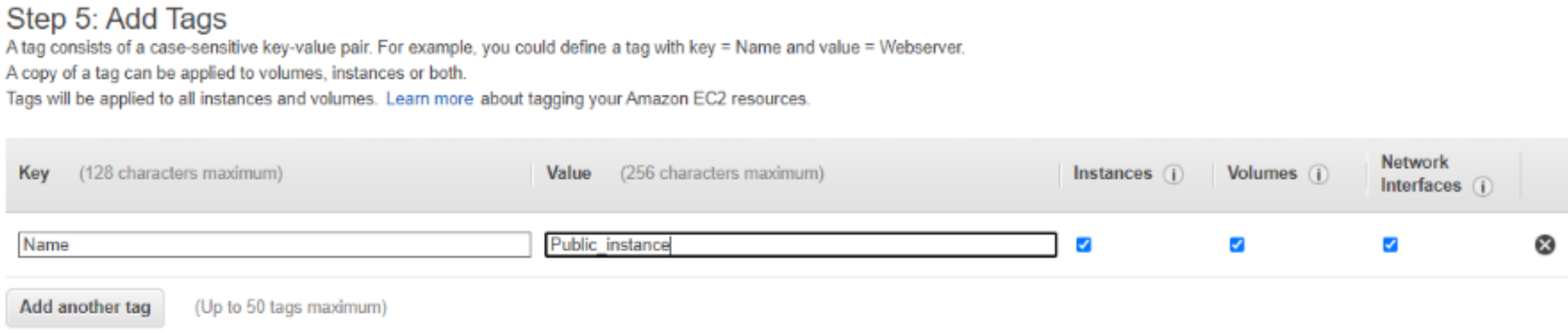
18. Now you need to choose the instance type , you can proceed with the default instance type that is being selected by clicking Next: Configure Instance Details



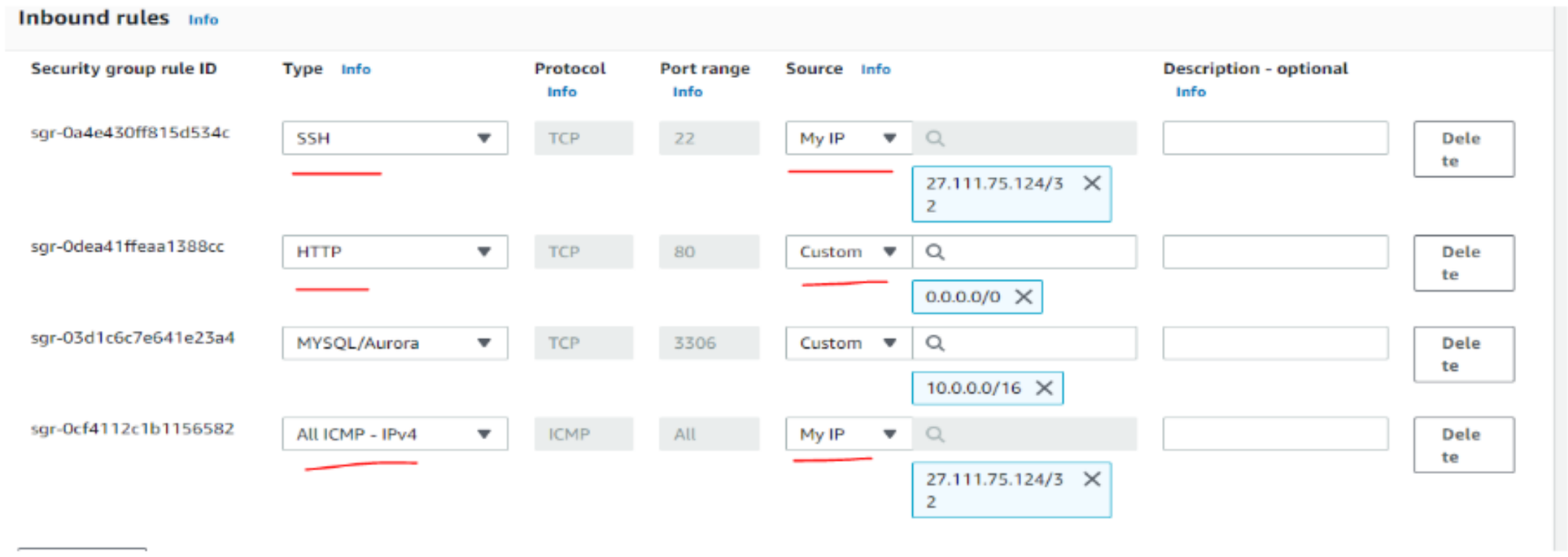
19. In the ‘configuration instance’ settings select your VPC from the network dropdown, select your public subnet that you have created , enable Auto-assign public ip, select “Use subnet setting (Ip name)” from the Hostname type and leave all other as default, Click on “Next : Add storage”



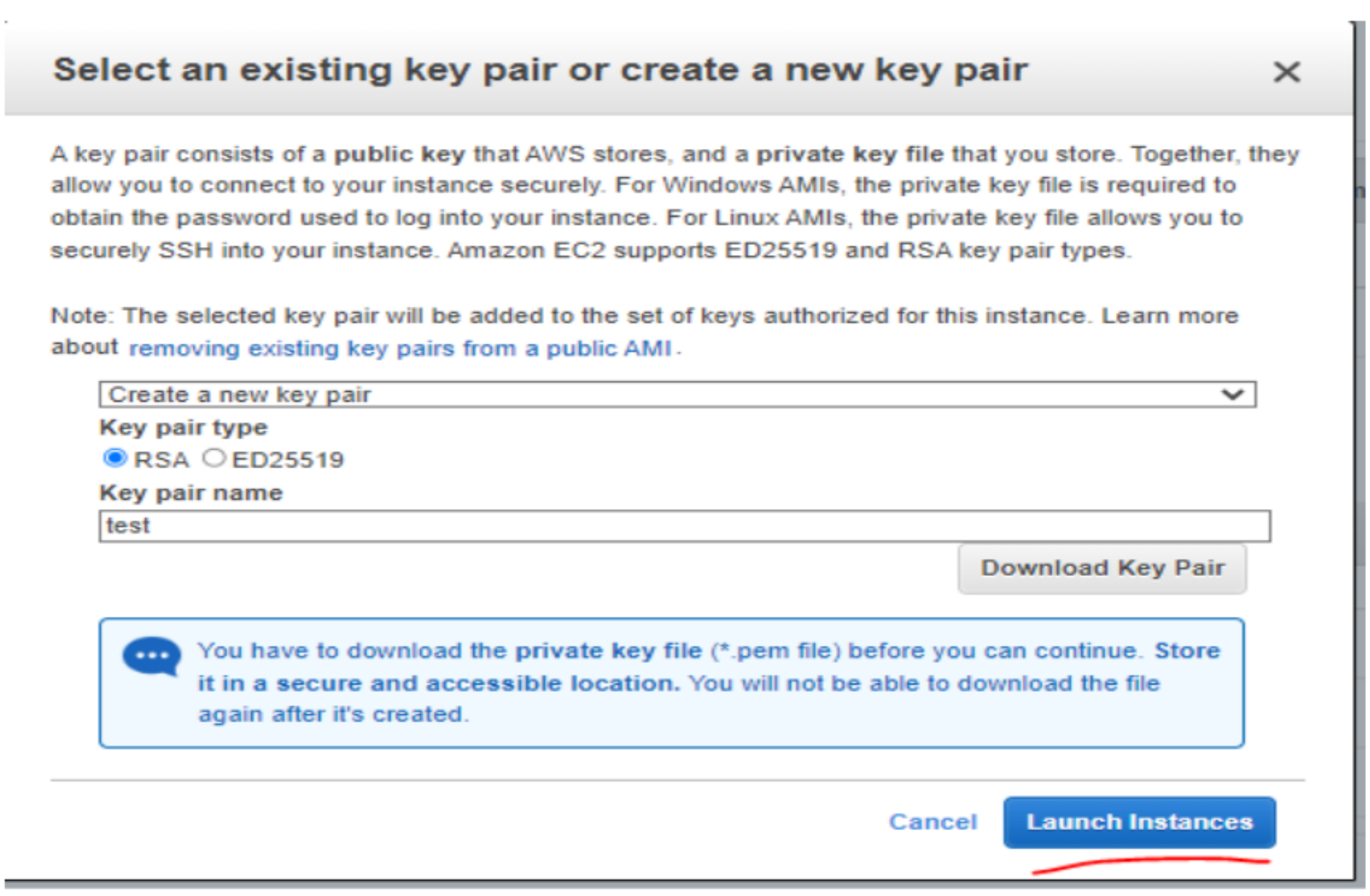
20. In storage default options are selected , you can click “Next : Add Tags”. provide the Name and Value as below, (it is your choice to provide any values) and click on ‘configure security groups’



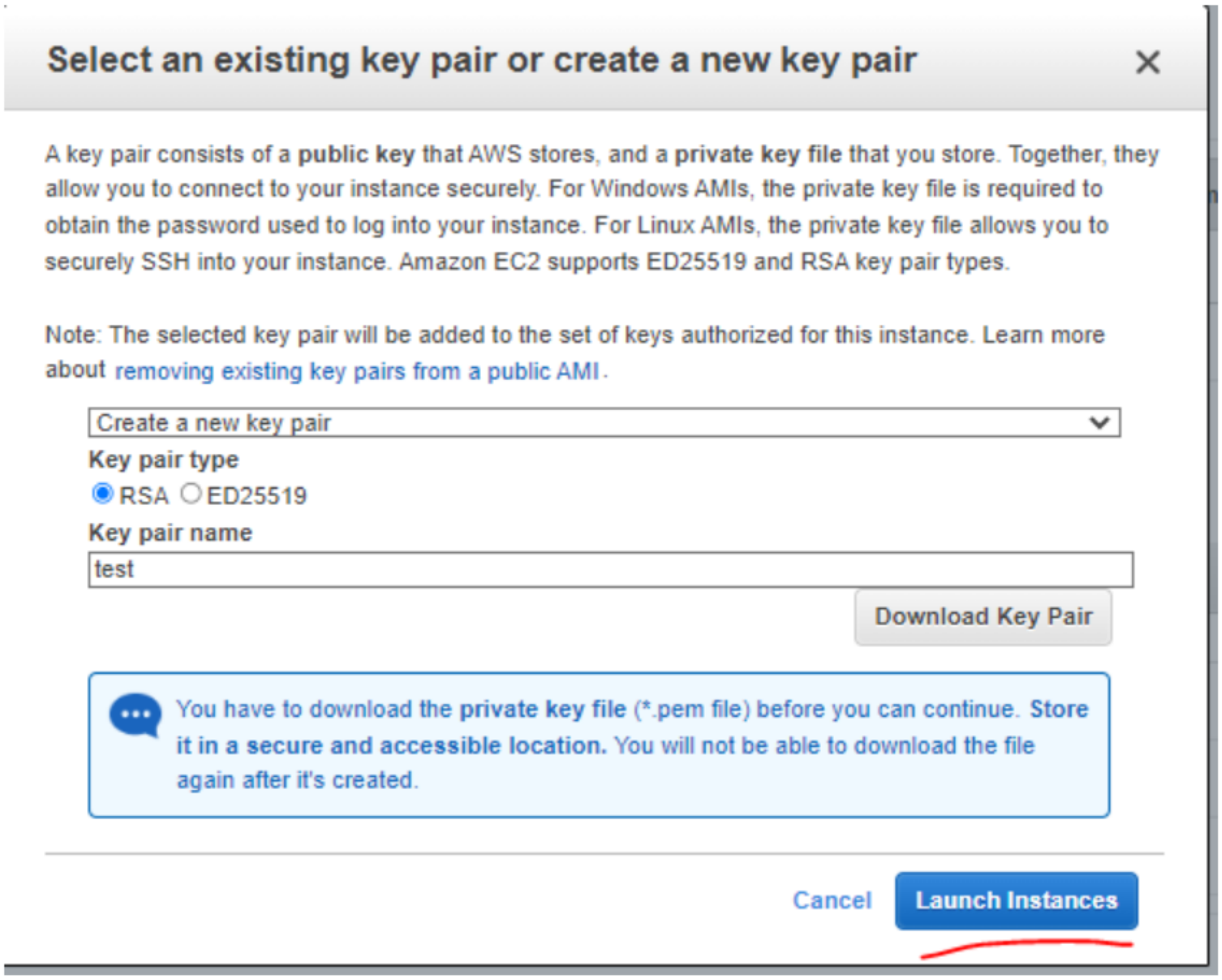
20. Now navigate to ‘Configure security group’ settings and add all the following rules which are marked and click “review & launch)
(Note for SSH & ICMP-Ipv4 select source dropdown as My ip)



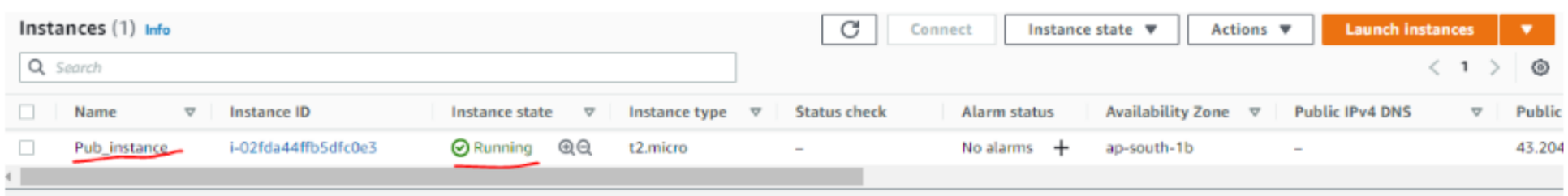
21. In the key pair prompt select “create a new keypair “ from the dropdown , enter the key pair name of your choice and click on download key pair, the key pair will get downloaded
(Note: copy the keypair to any of your linux machine to connect the EC2 instance)



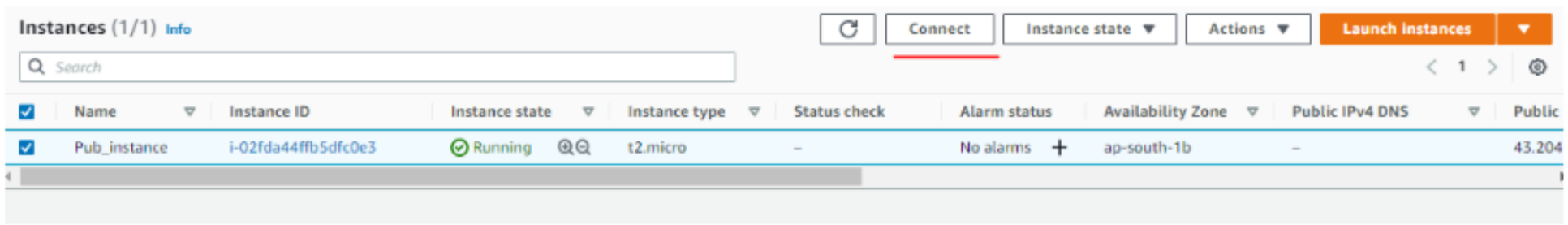
22. Then Click on Launch Instance



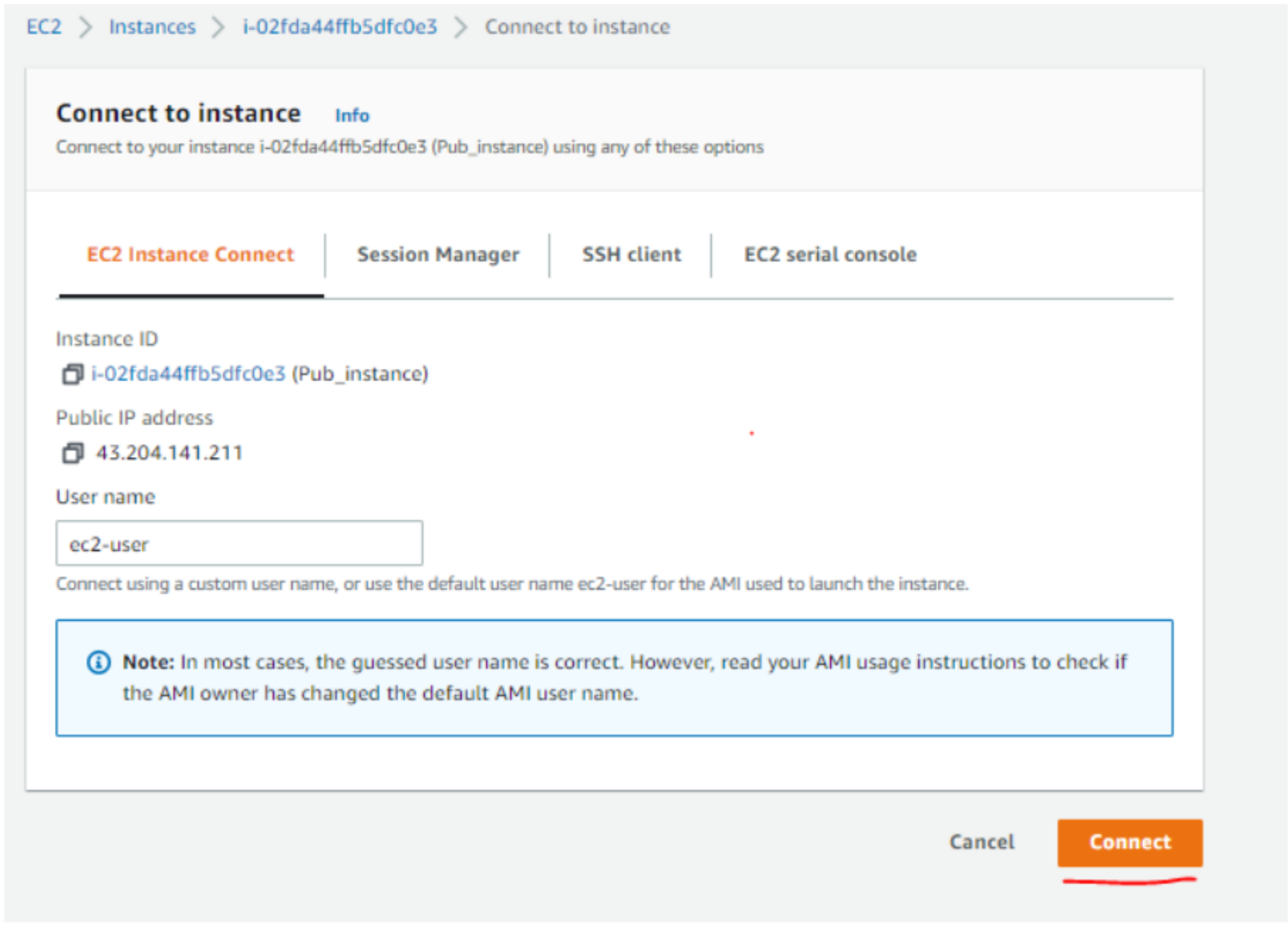
23. Now search and navigate to Instances you will be seeing the instance that is up and running state



24. Now select the particular instance and click “connect”



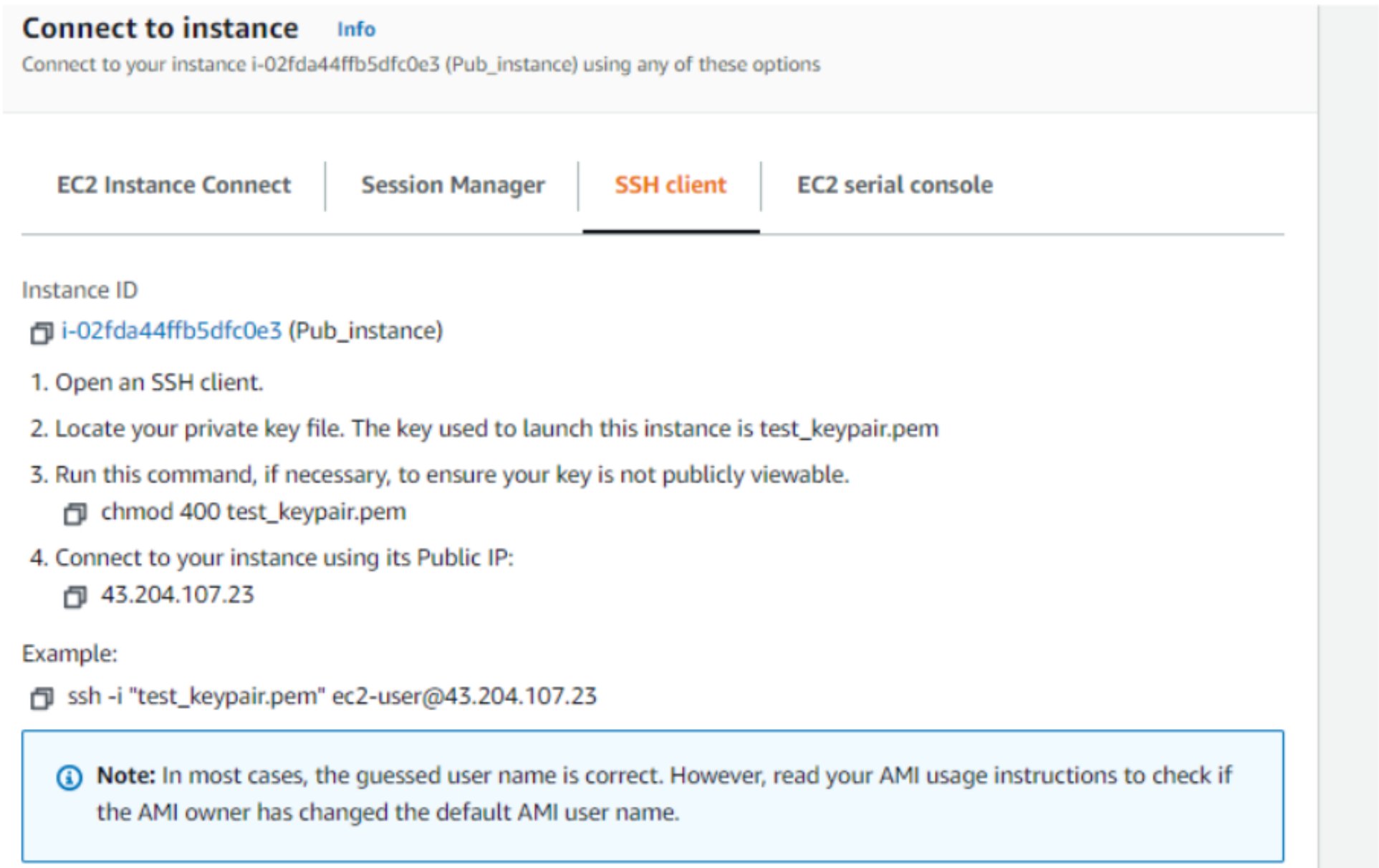
25. Click “connect’ to launch the Terminal



steps to Connect with the Instance using Public IP

1. Navigate to Instances page , select the public instance and click on connect

2. Click on the SSH client tab



3. Execute the above steps from your Linux server where you have copied the private key file .

4. You can also use putty to connect with the public instance