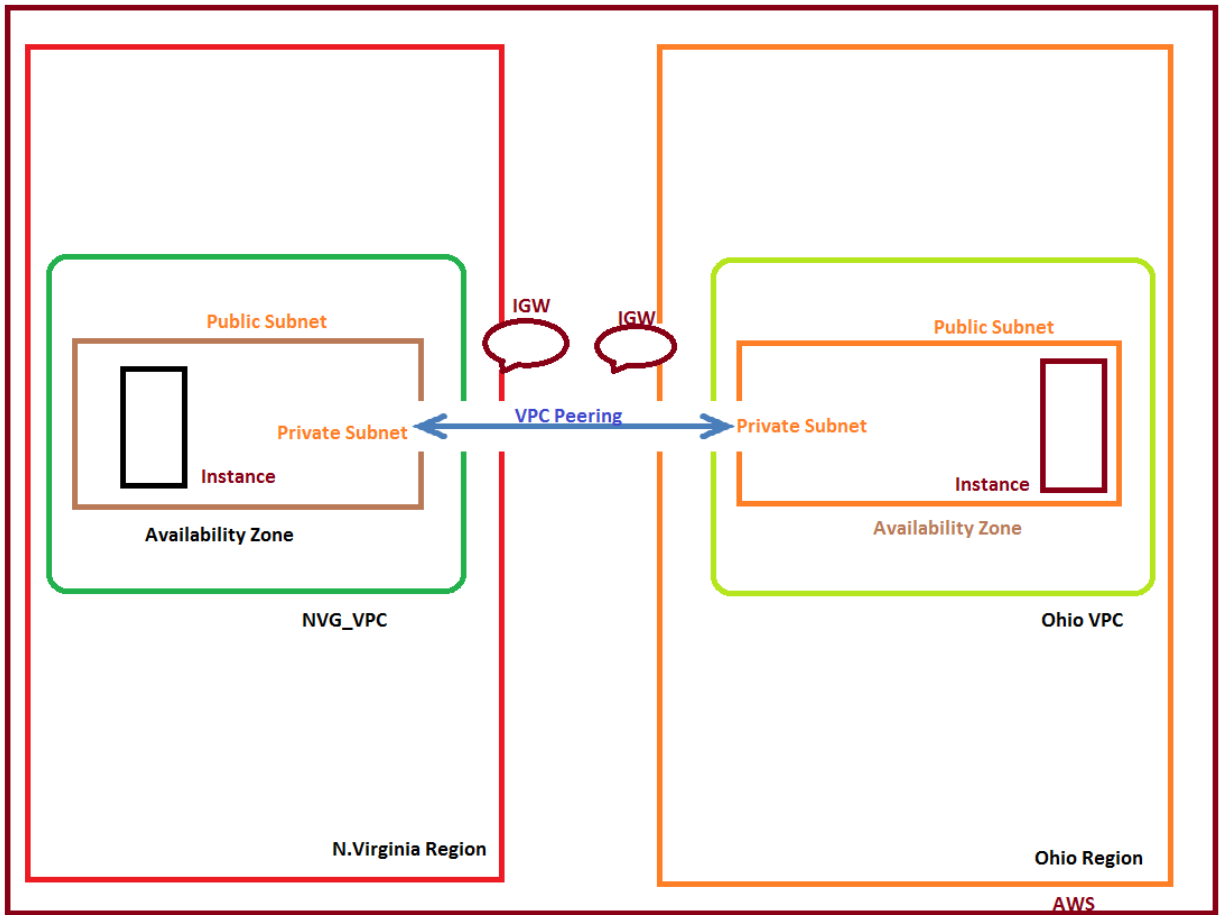
Lab 12

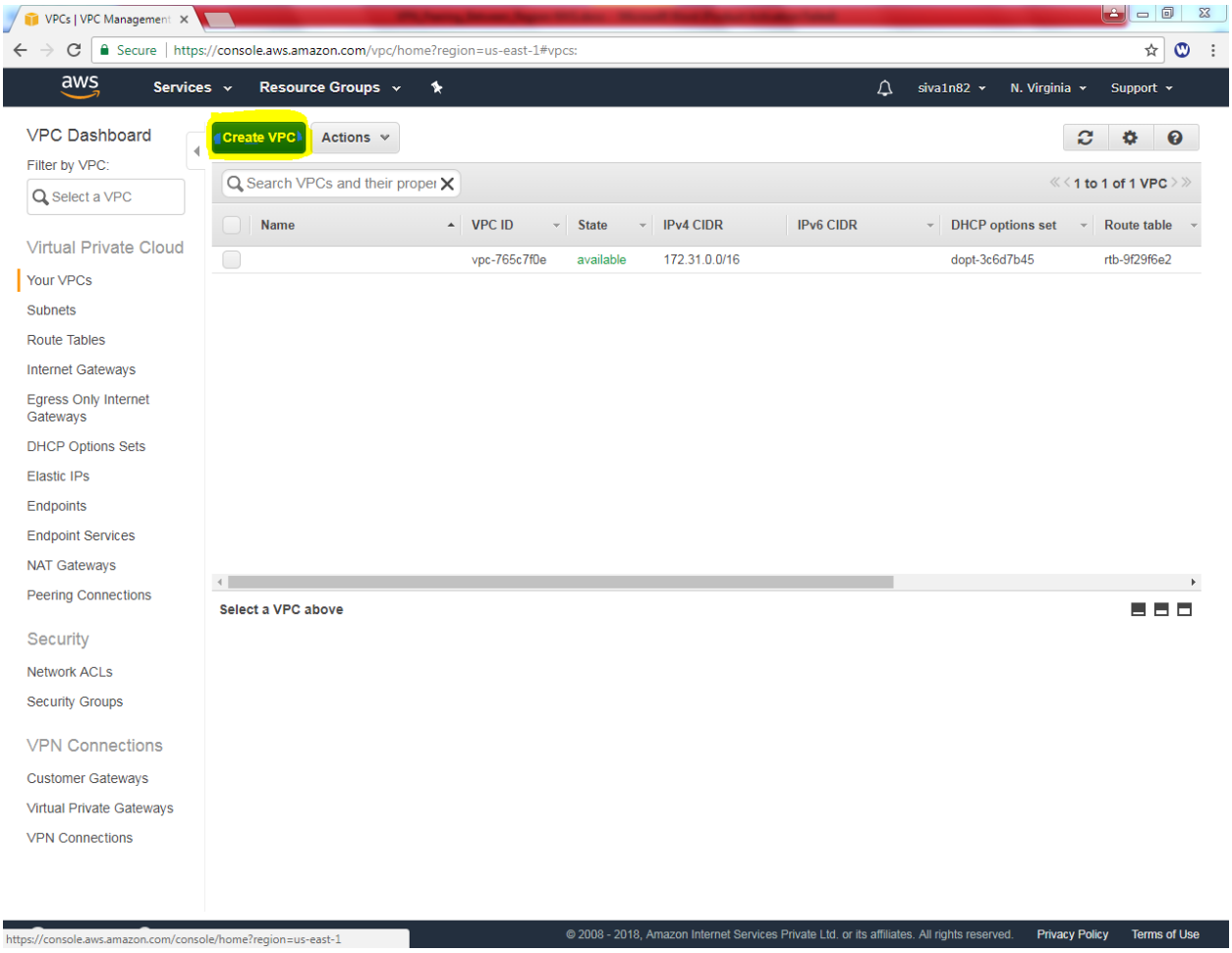
VPC Peering Lab – 1 of 3



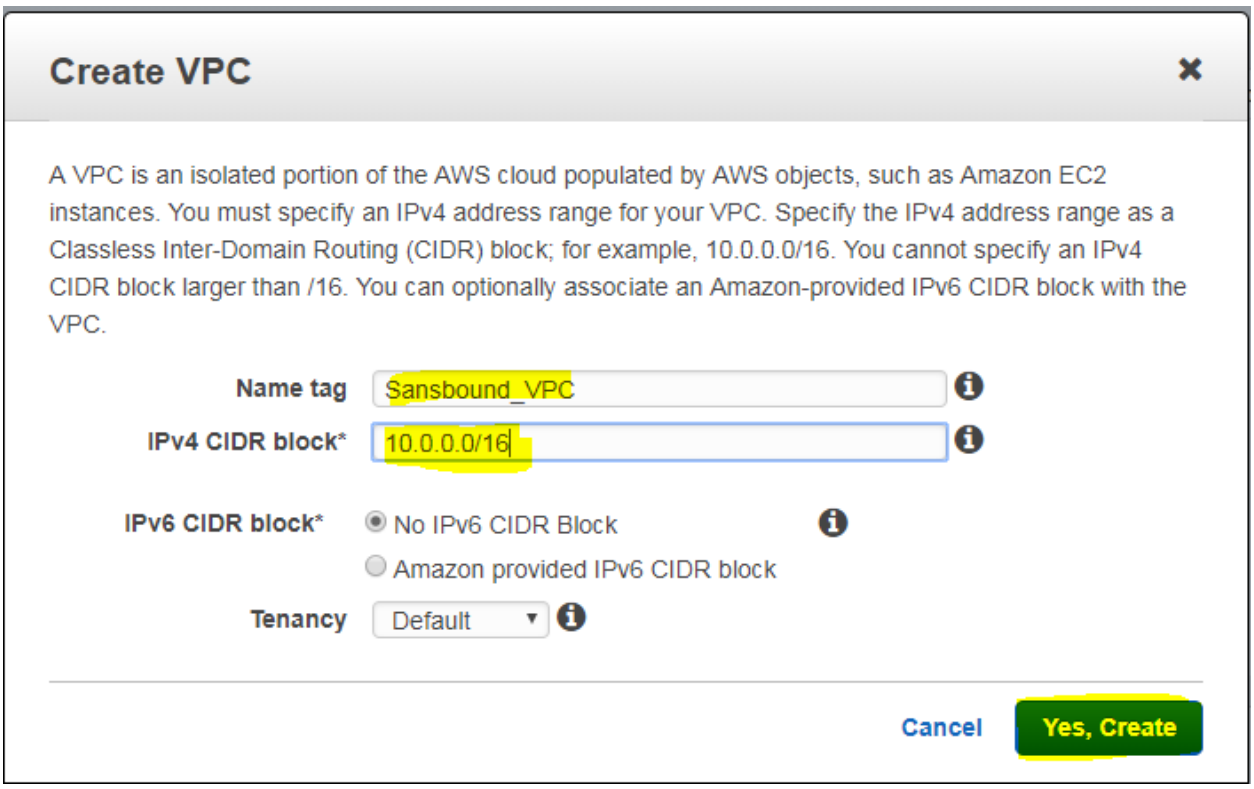
Scenario:

In AWS, regions are not communicate by default. Our scenario is to connect private networks between two regions by configuring VPC Peering.

In VPC Dashboard, click create VPC

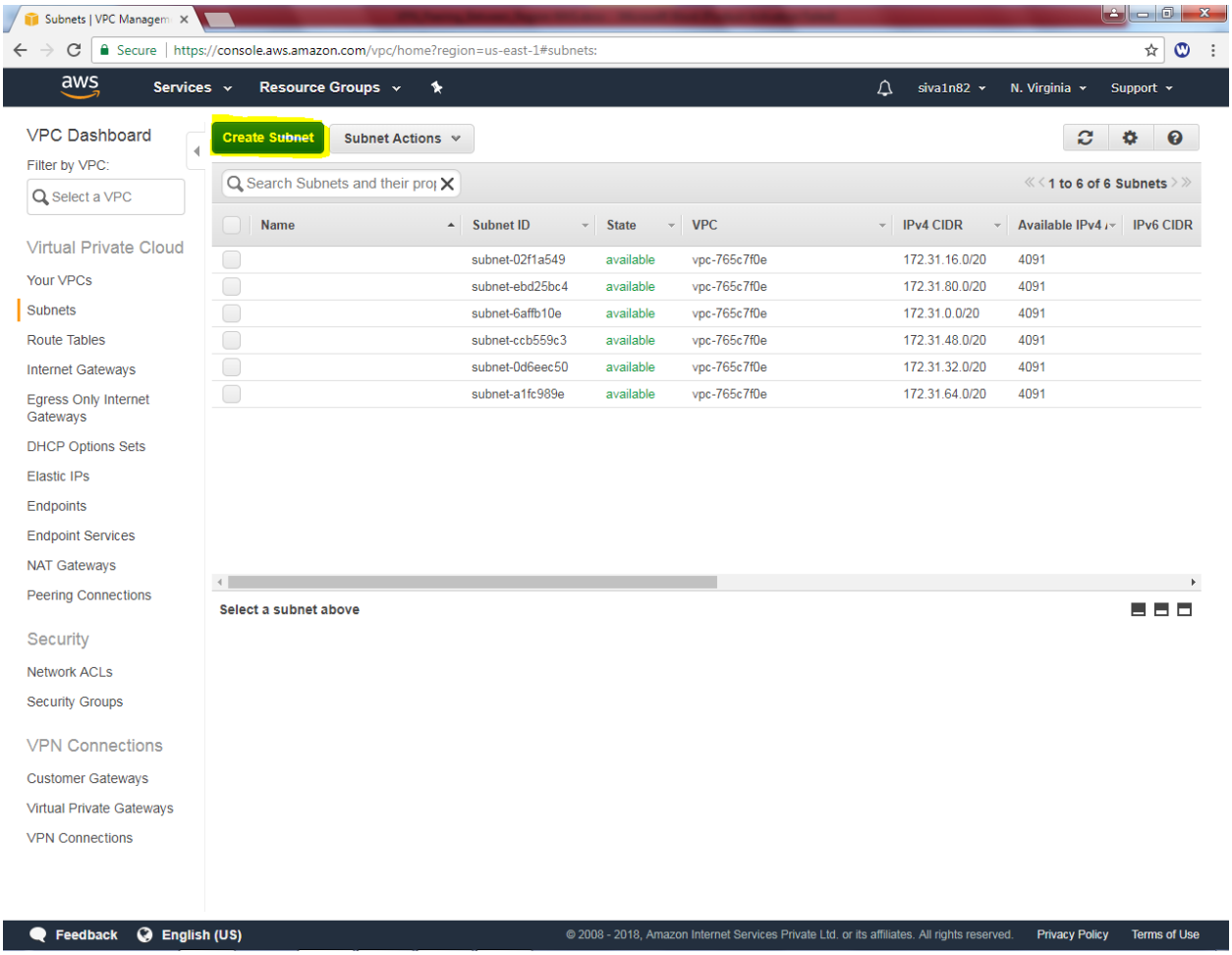


While create VPC, **Name tag** as “Sansbound_VPC” and **IPV4 CIDR Block** as 10.0.0.0/16

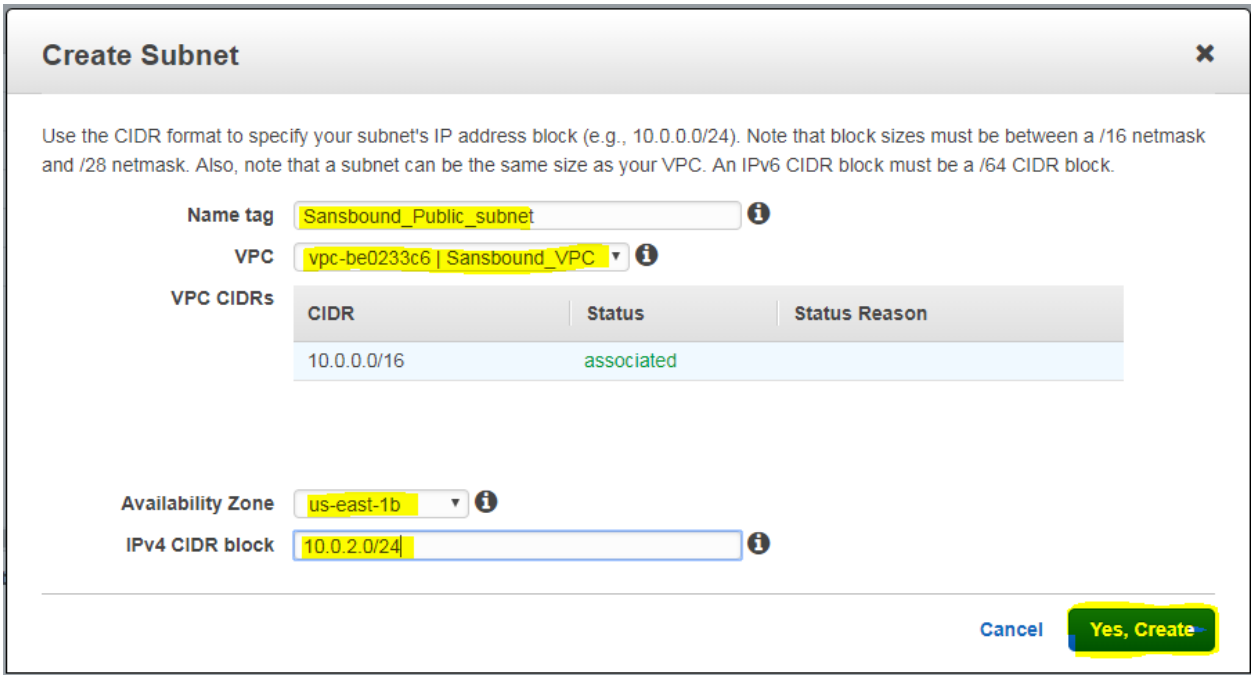


Then click “Create”.

Then we need to create subnet for the VPC.



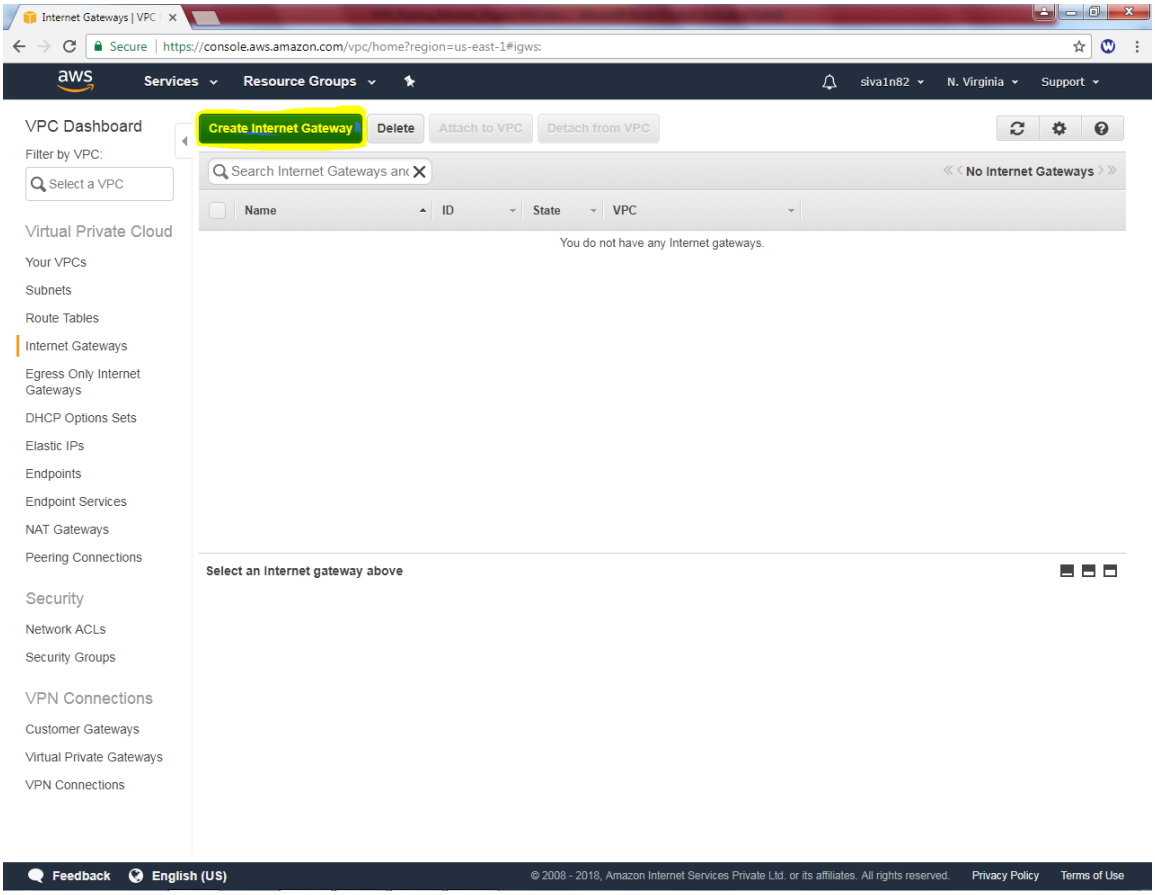
While creating subnet, **Name tag** as Sansbound_Public_subnet, **VPC** as “Sansbound VPC” **Availability zone** – 1B (Optional) and **IPV4 CIDR Block** as 10.0.2.0/24.



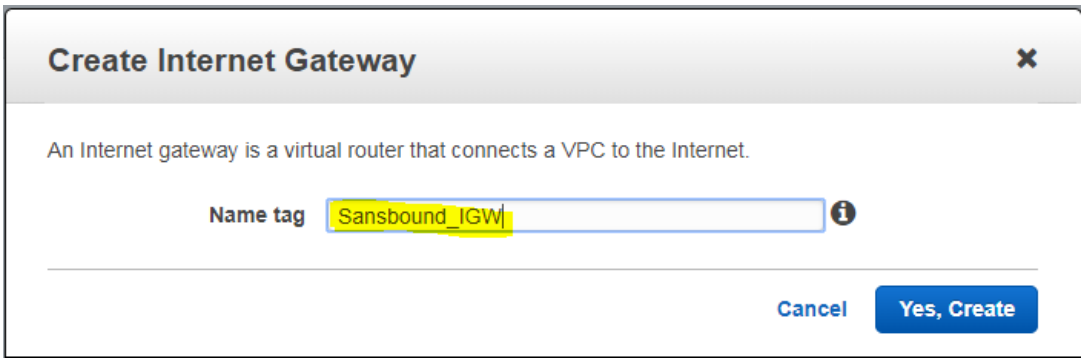
Then click “Yes, create”.

We need to create internet gateway to access the internet and connect the server publicly.

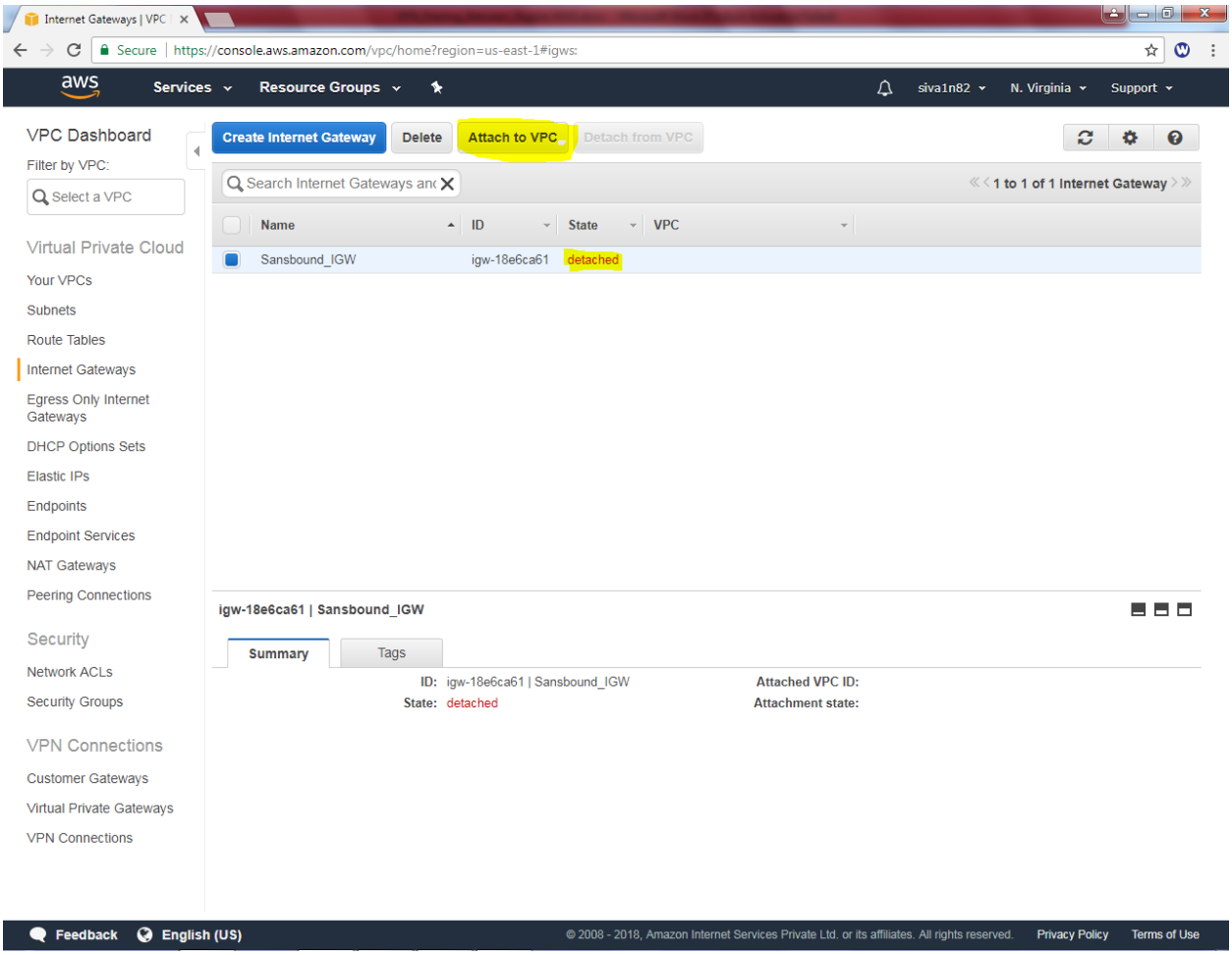
Click “Create Internet Gateway”



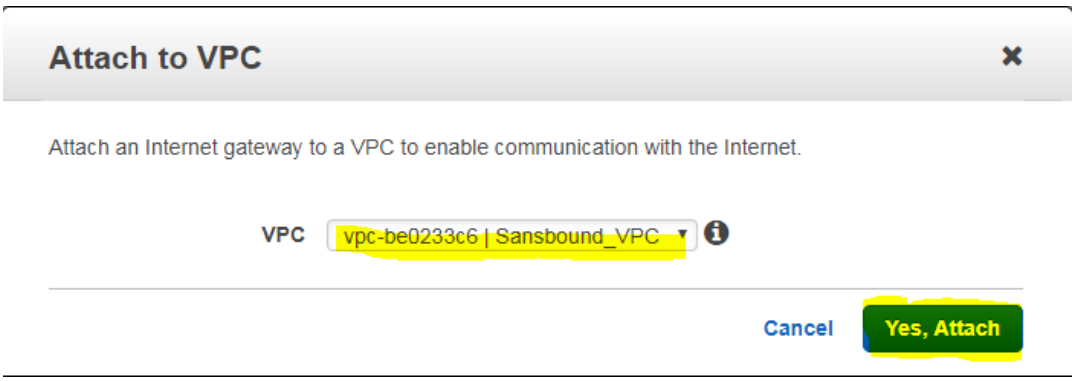
In **Name tag** “Sansbound IGW” and then click “Yes, create”.



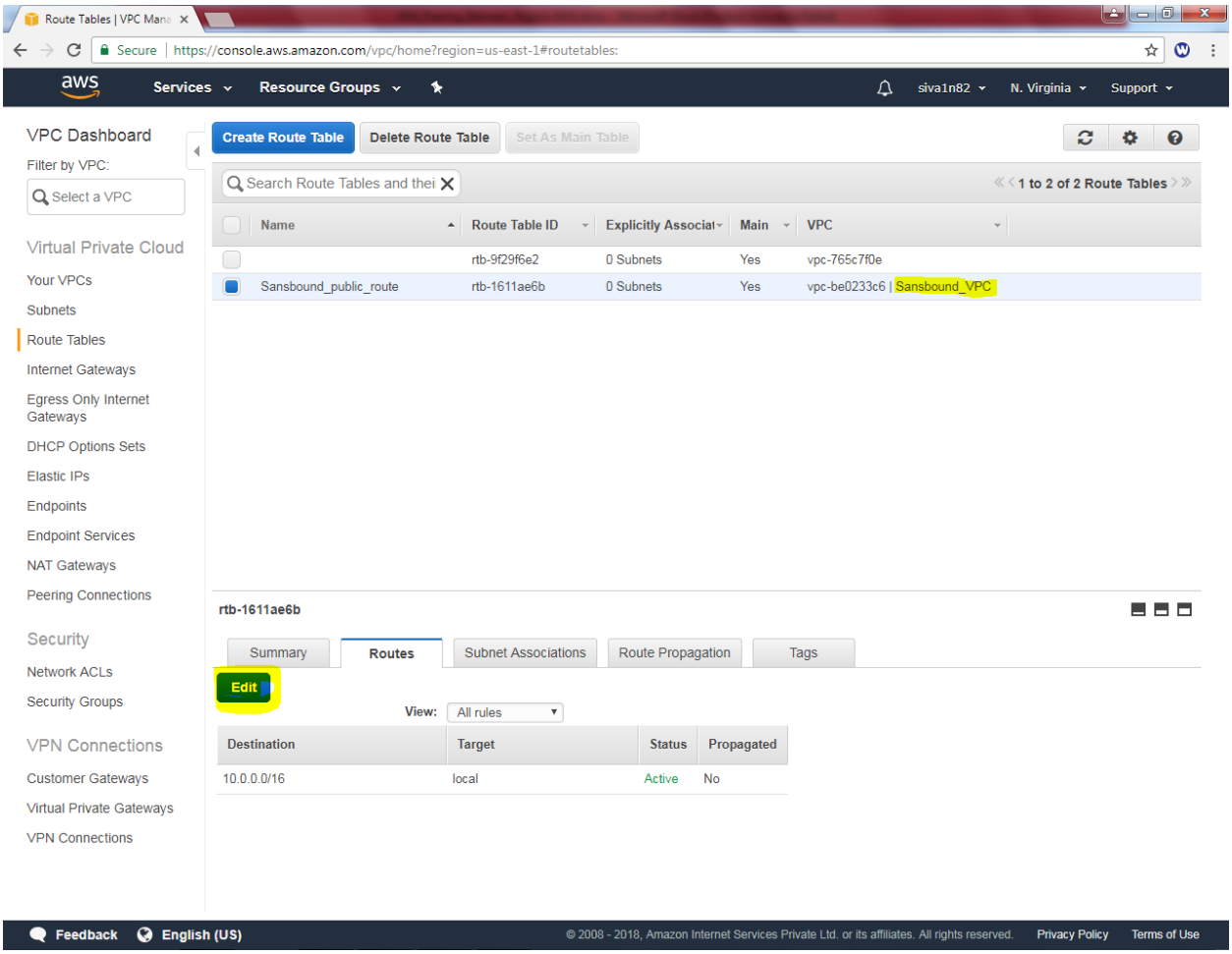
In Internet gateway, it’s in detached state, we need the attach the VPC.



Click “Yes, attach”.

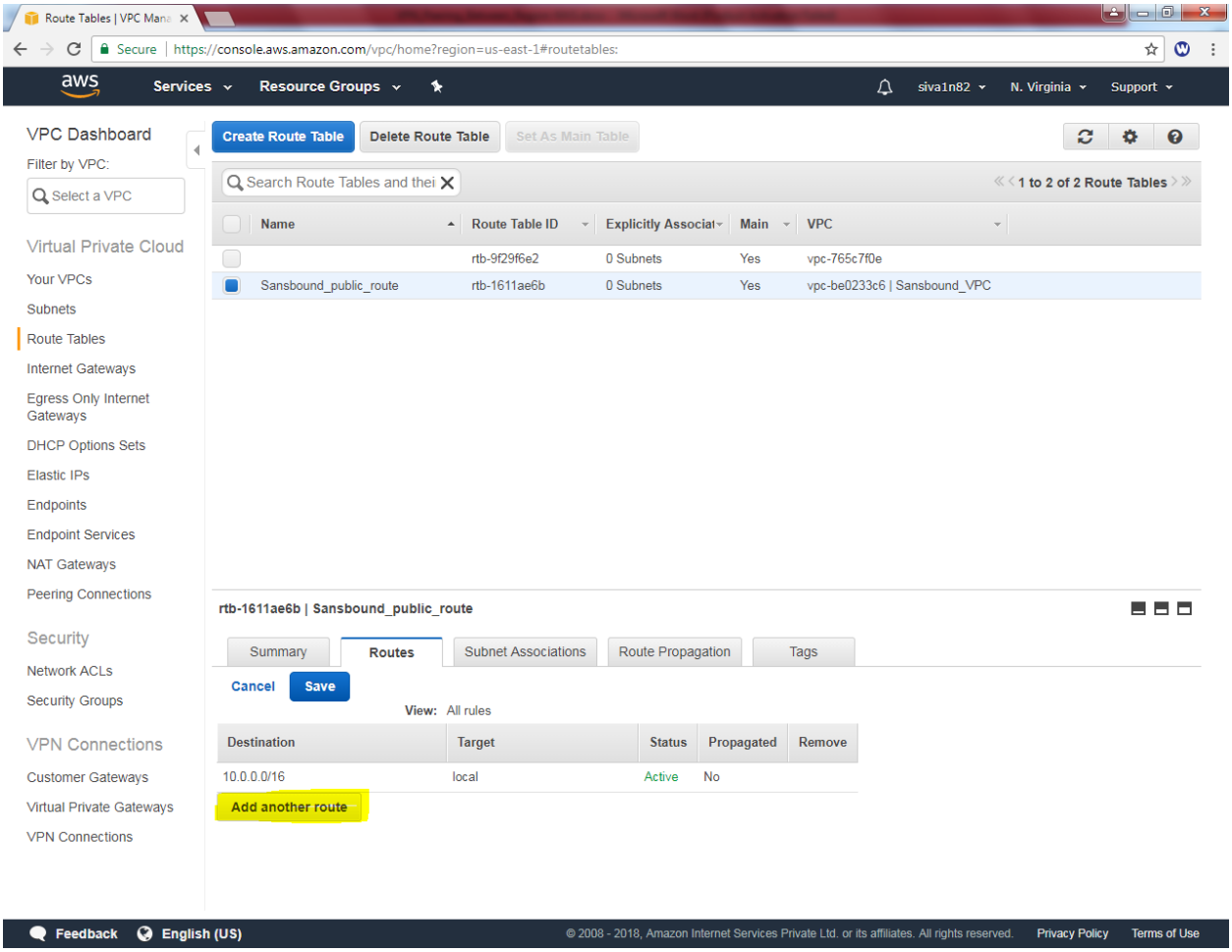


In Routing table, click Need to the rename the Sansbound VPC table as Sansbound Public route.

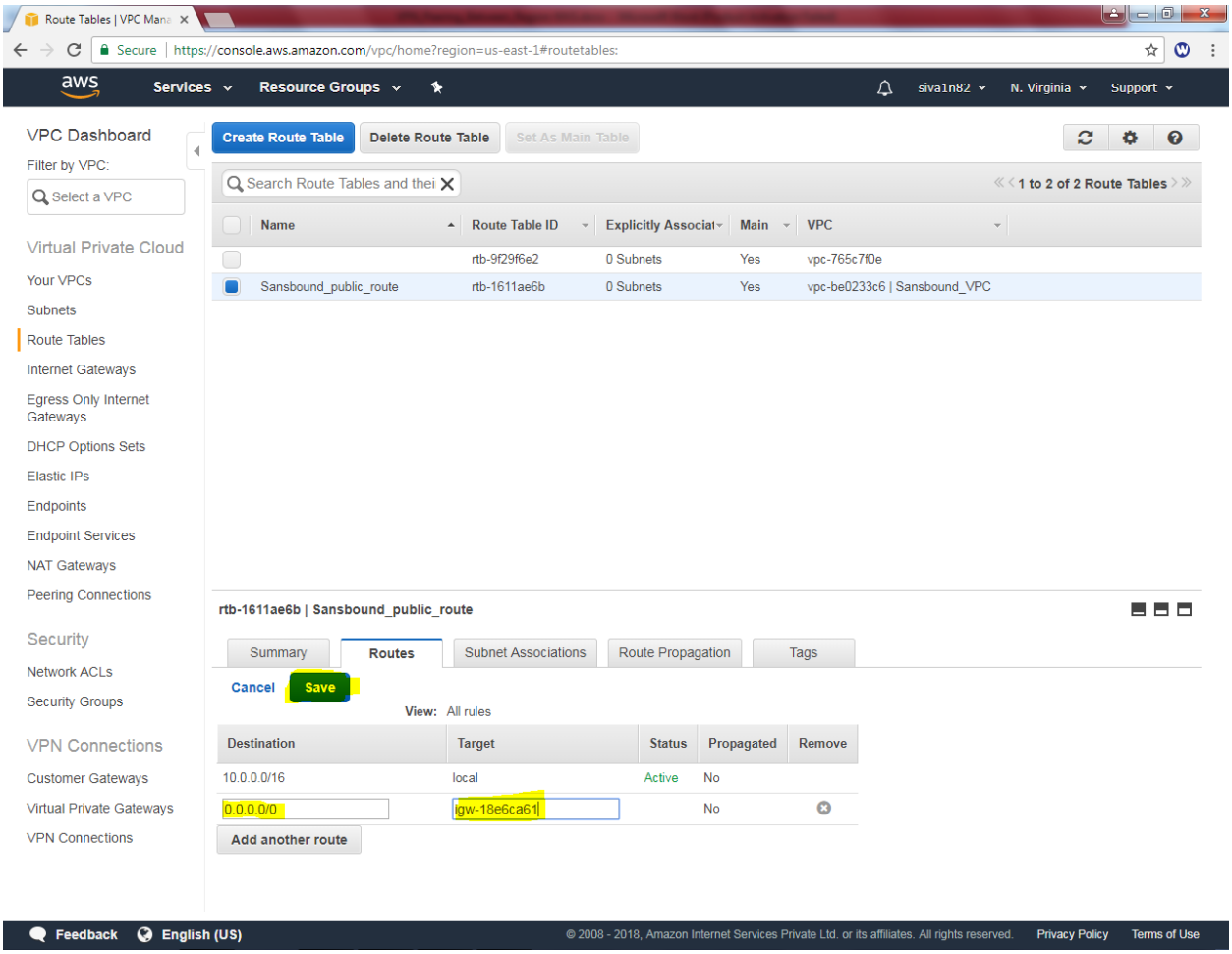


Then click “edit” option in route

Click “Add another route” option in route.

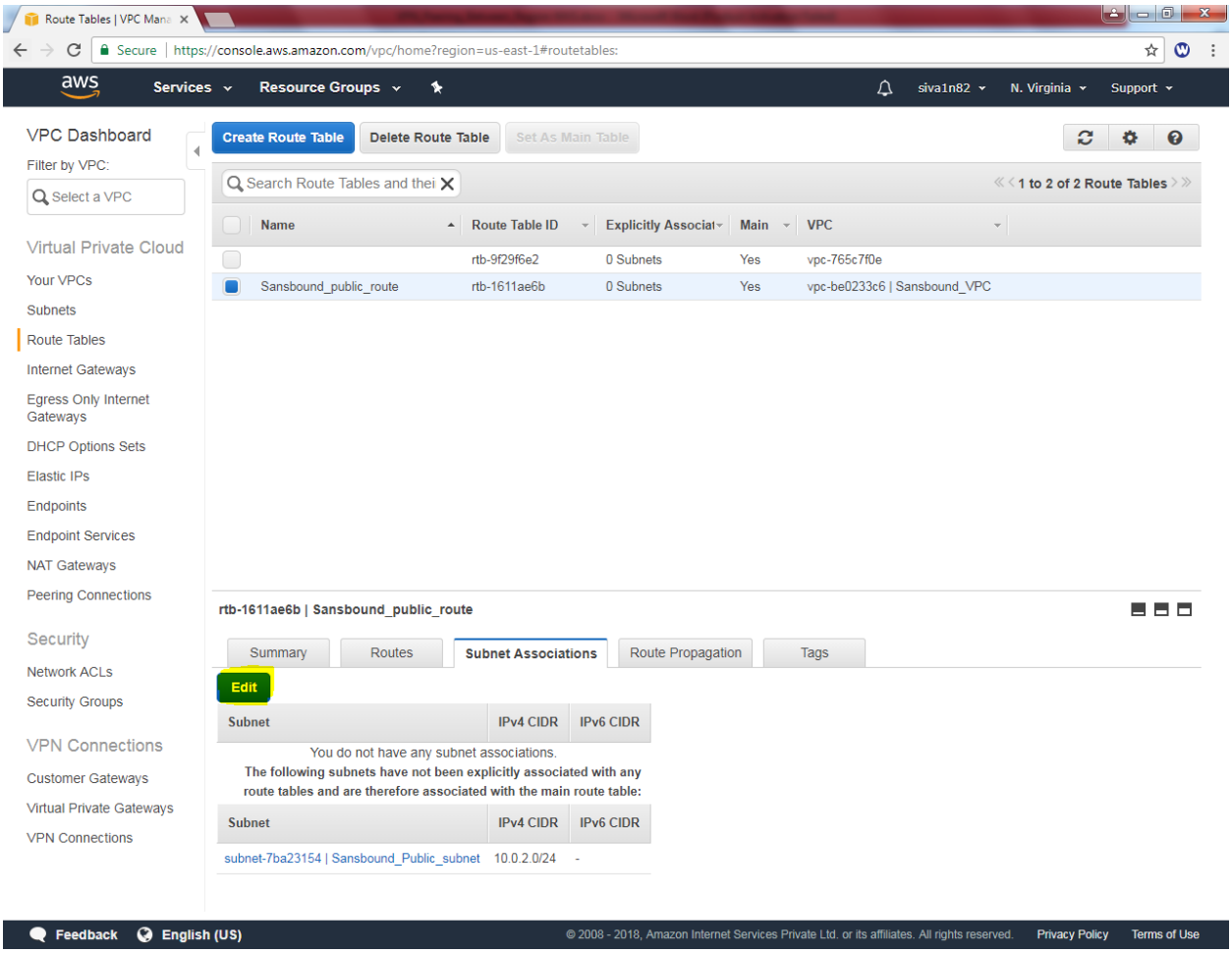


Add default route 0.0.0.0/0 and select **igw-*** as target.

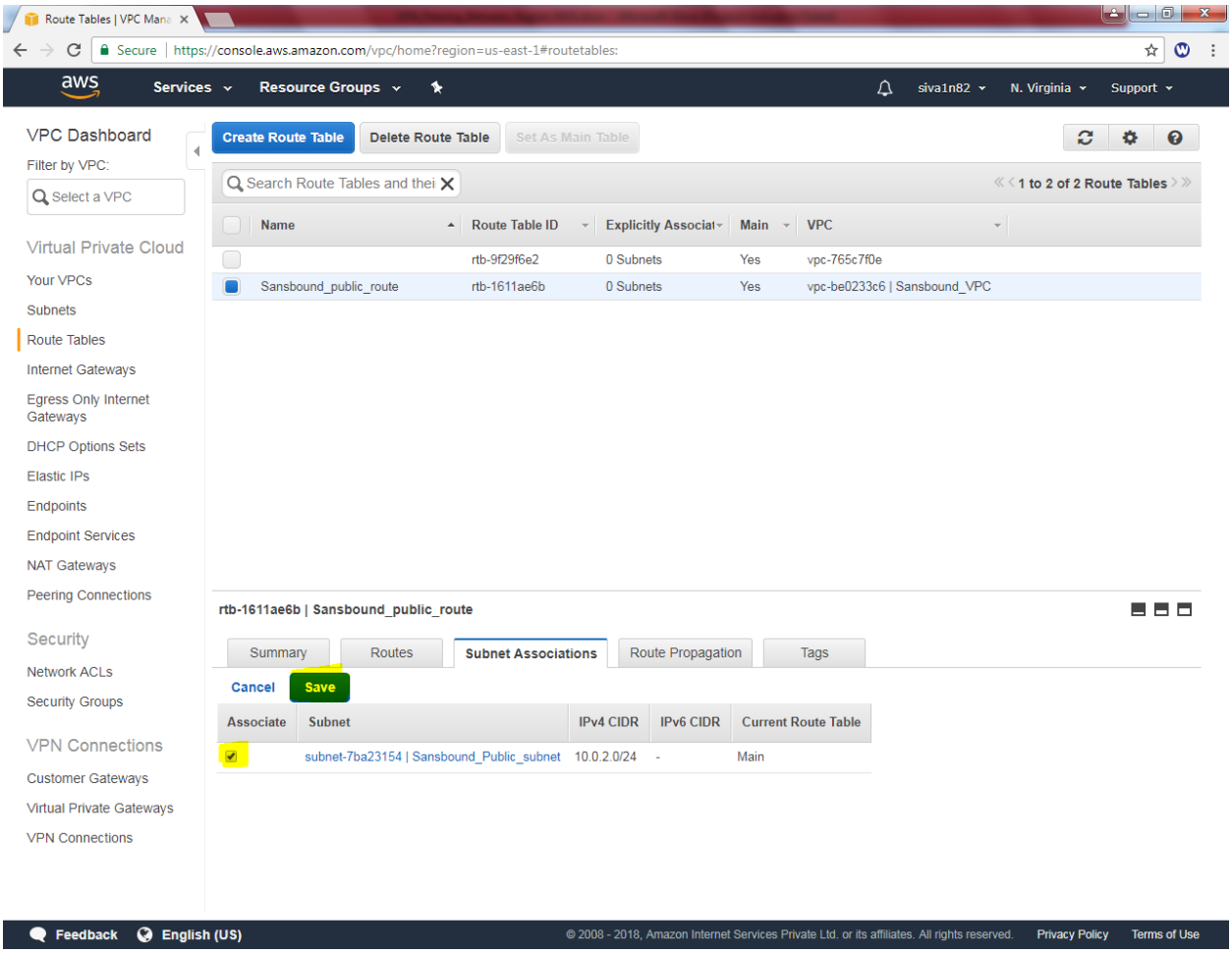


Then click “save”.

In “Subnet associations” click edit option.

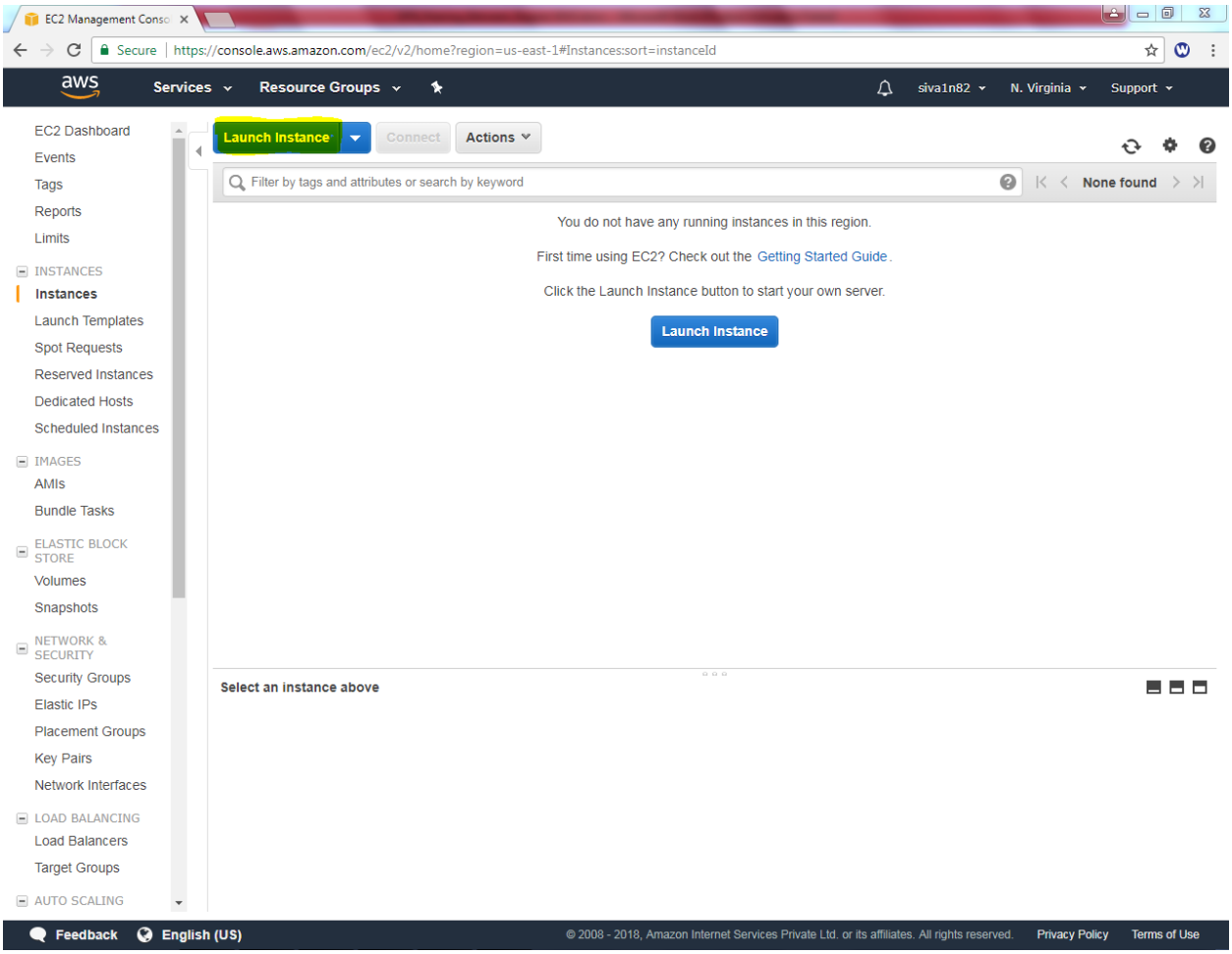


In Subnet associations select check box in “Sansbound Public Subnet”

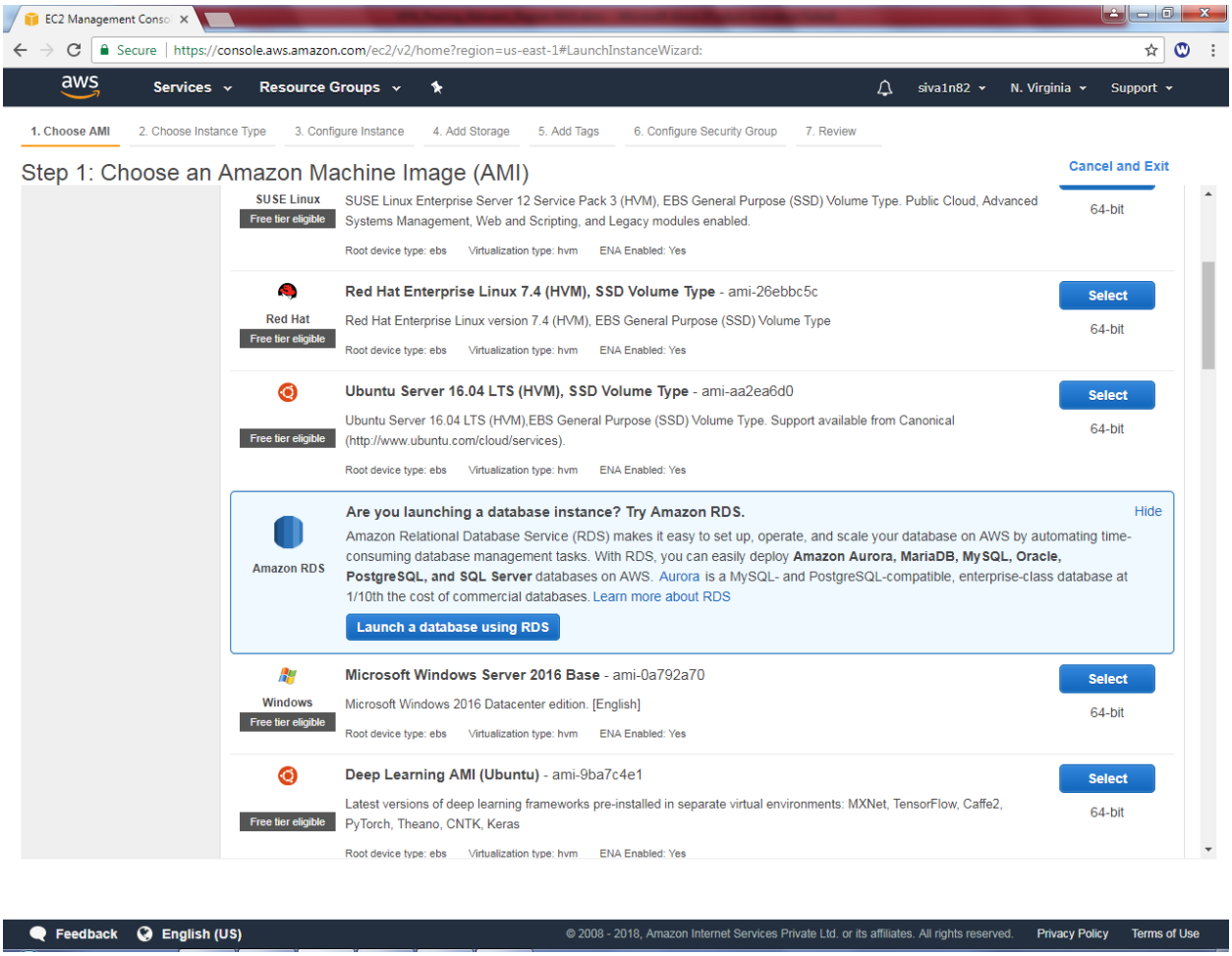


Click “Save”.

Now we need to create an instance (windows 2016) in North Virginia.



Select “Microsoft Windows Server 2016 Base”


EC2 Management Conso
Secure | https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
aws
Services
Resource Groups
siva1n82
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
SUSE Linux
Free tier eligible
SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
64-bit
Red Hat
Free tier eligible
Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-26ebbc5c
Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit
Free tier eligible
Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-aa2ea6d0
Ubuntu Server 16.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit
Amazon RDS
Are you launching a database instance? Try Amazon RDS.
Hide
Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server databases on AWS. Aurora is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. Learn more about RDS
Launch a database using RDS
Windows
Free tier eligible
Microsoft Windows Server 2016 Base - ami-0a792a70
Microsoft Windows 2016 Datacenter edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit
Free tier eligible
Deep Learning AMI (Ubuntu) - ami-9ba7c4e1
Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit
Feedback
English (US)
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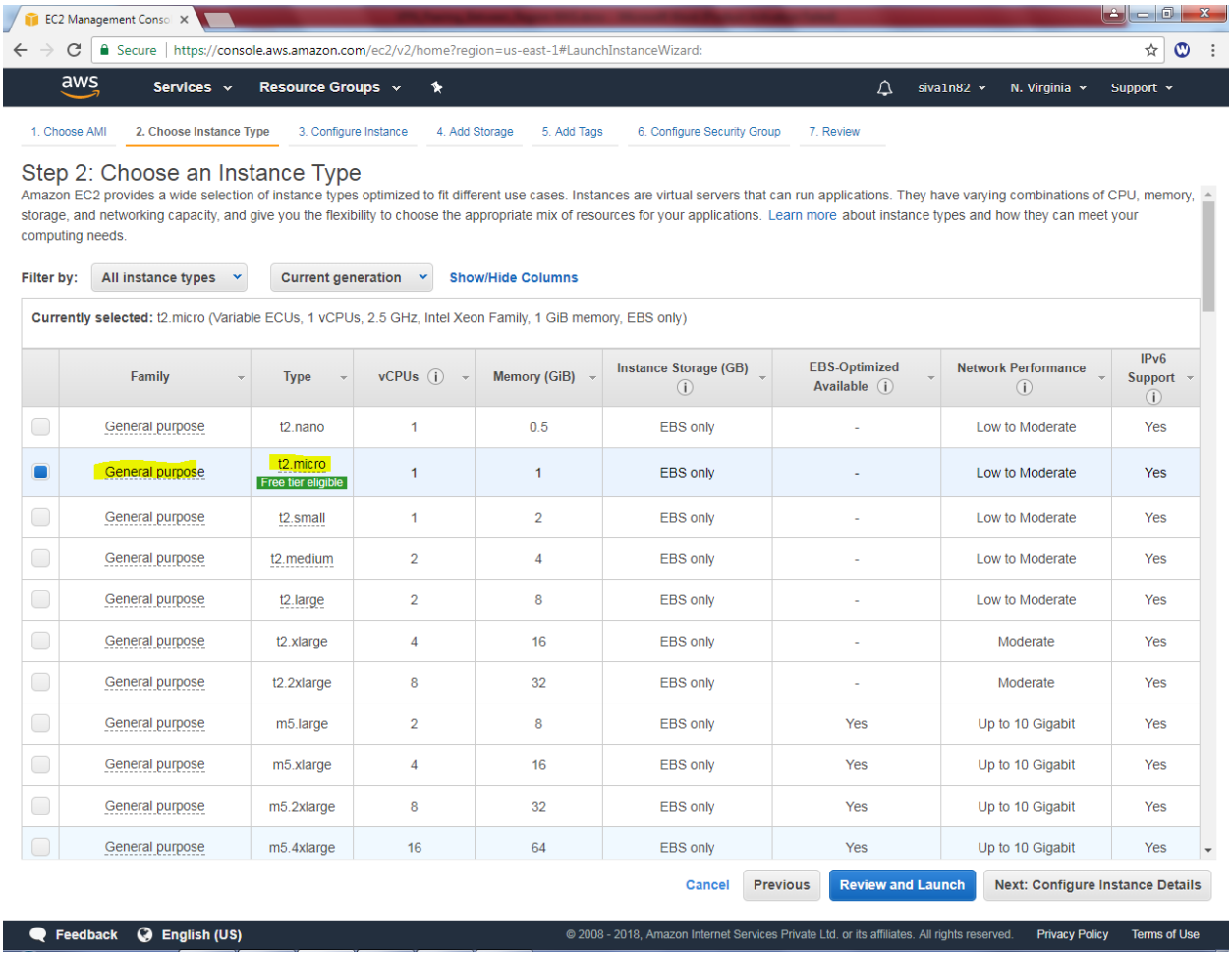
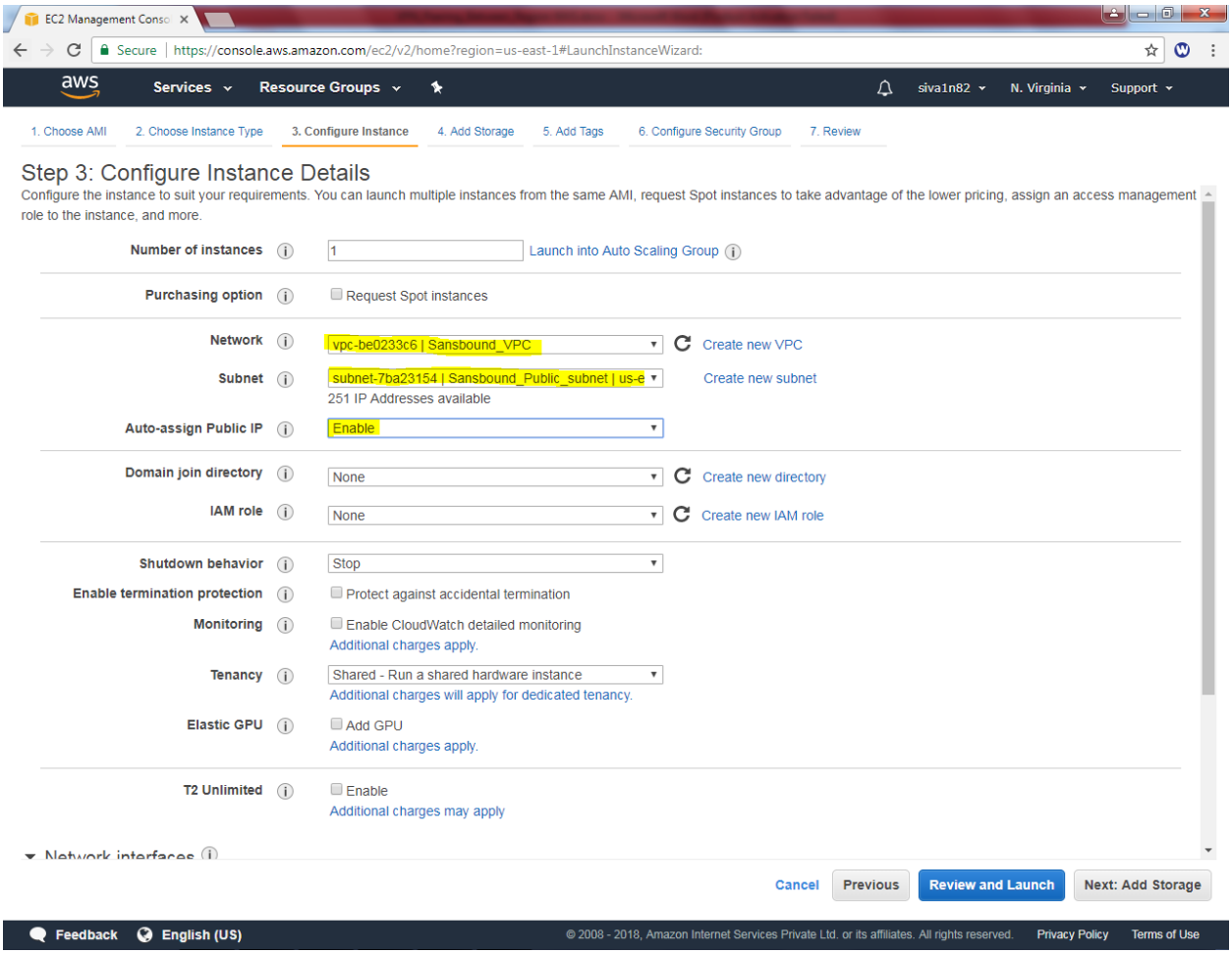


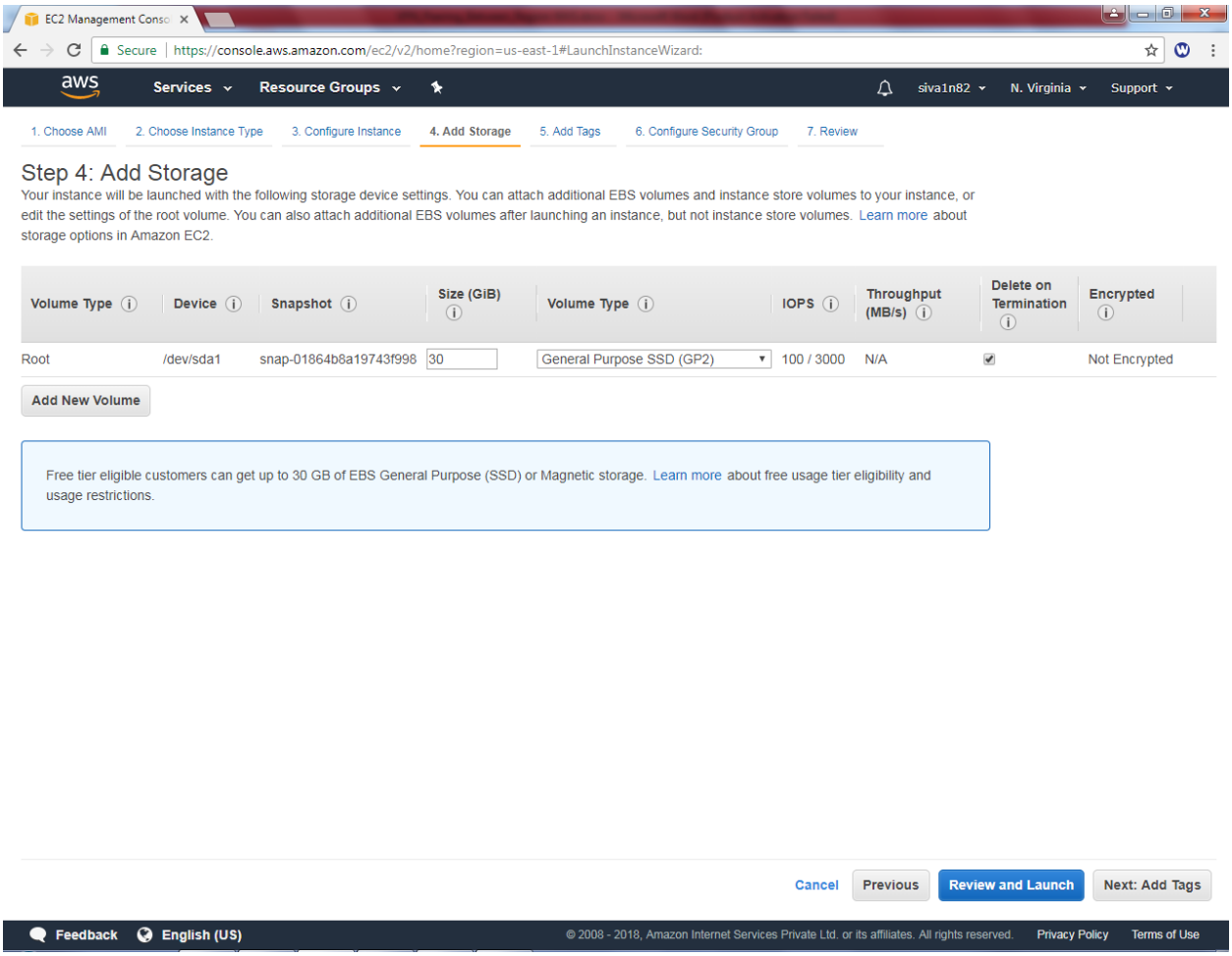
Select VPC as Sansbound_VPC

Select subnet as “Sansbound_Public_Subnet”.

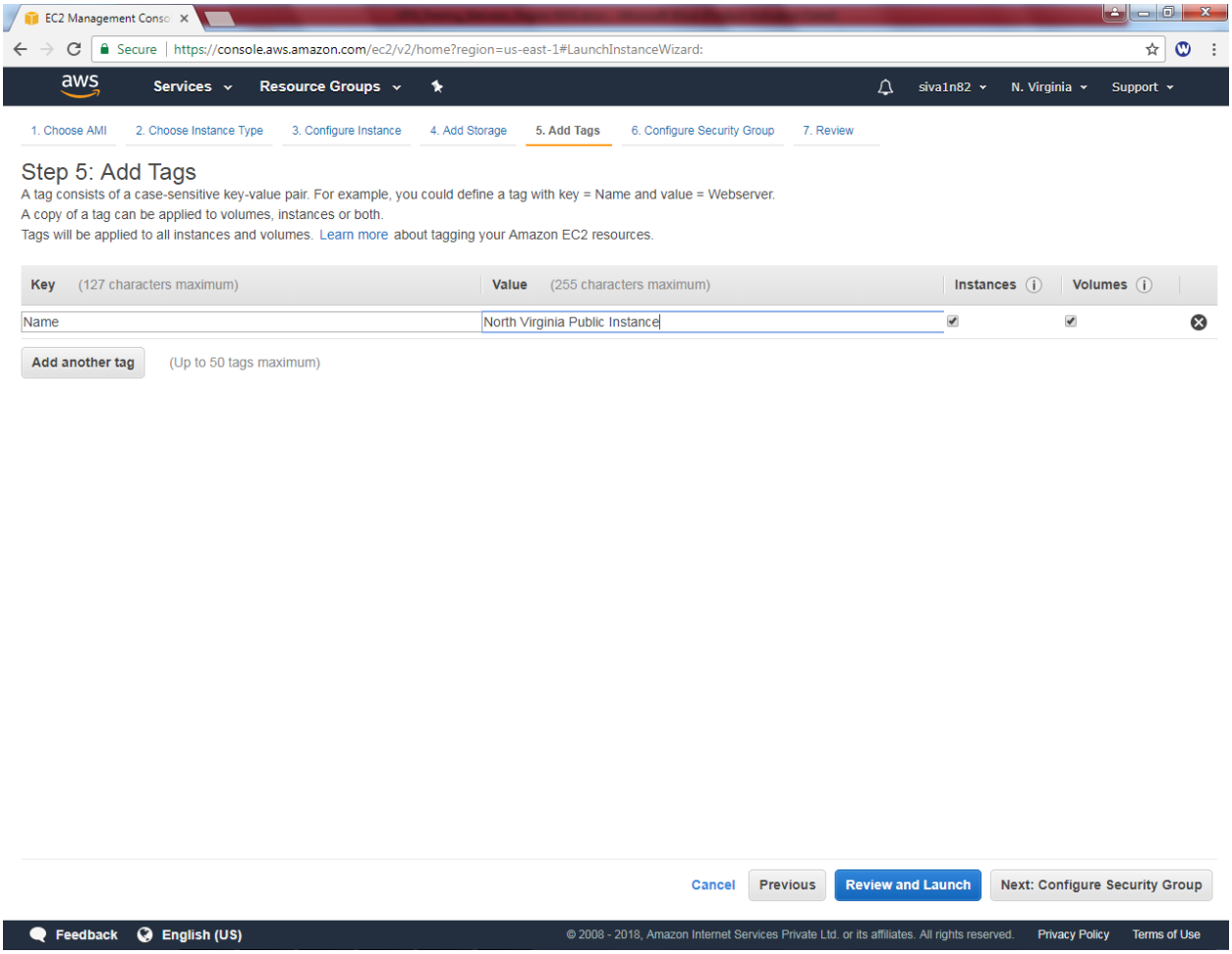
Auto assign Public IP : Enable



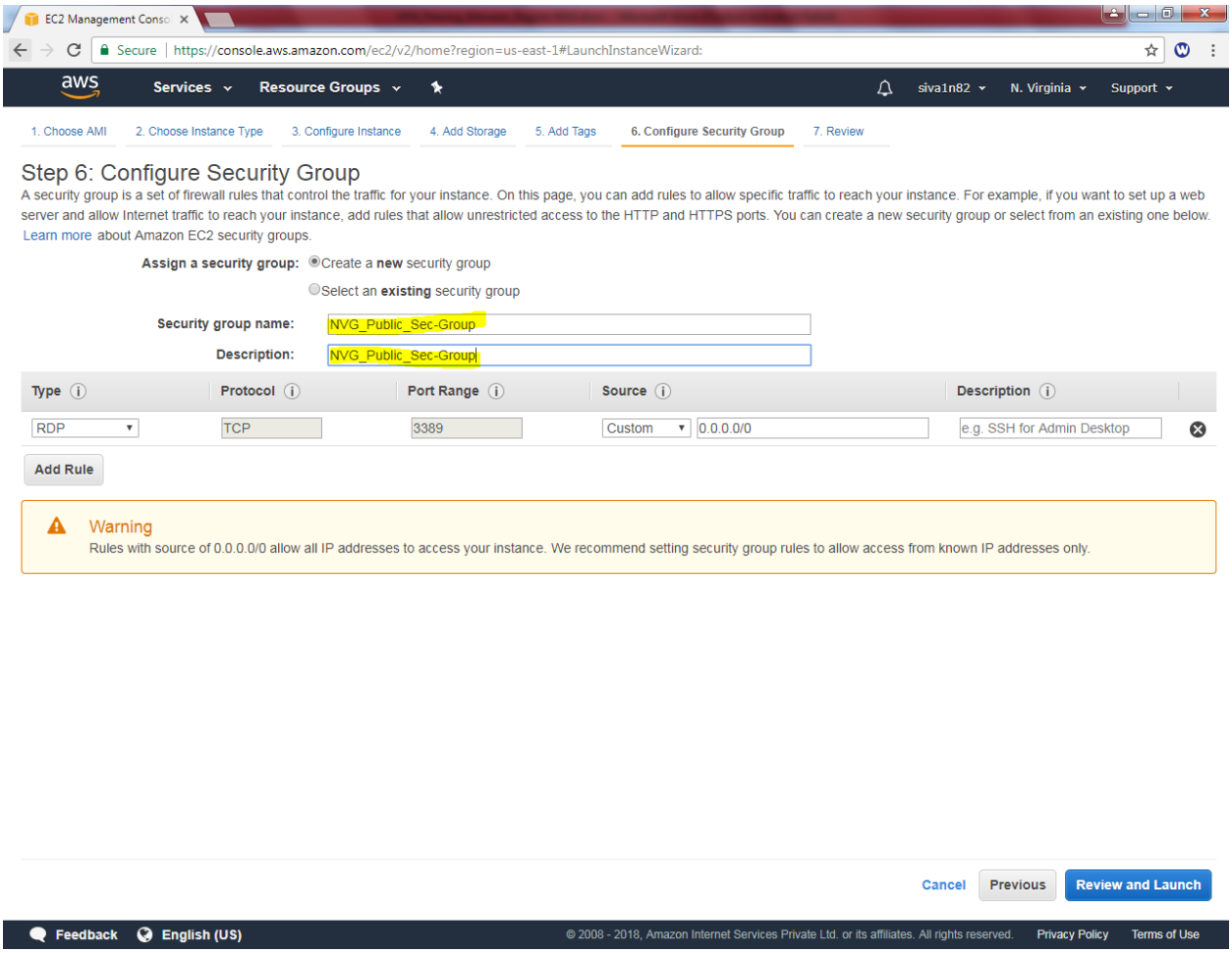
Leave default settings and click “Next”.



Type key as Name and value as “North Virginia Public instance” and then Click “Next”.

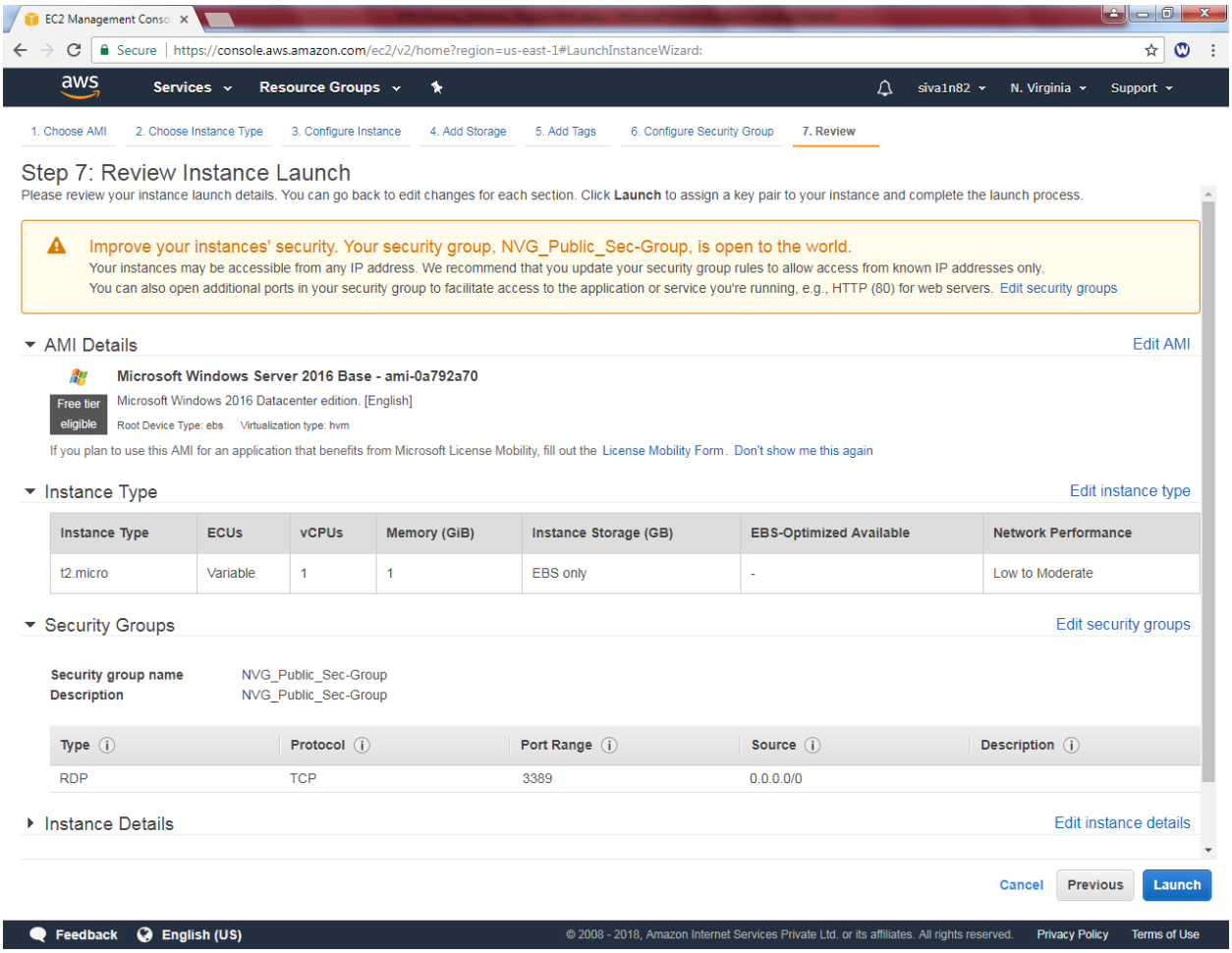


Create a new security group as “NVG_Public_Sec_Group”.

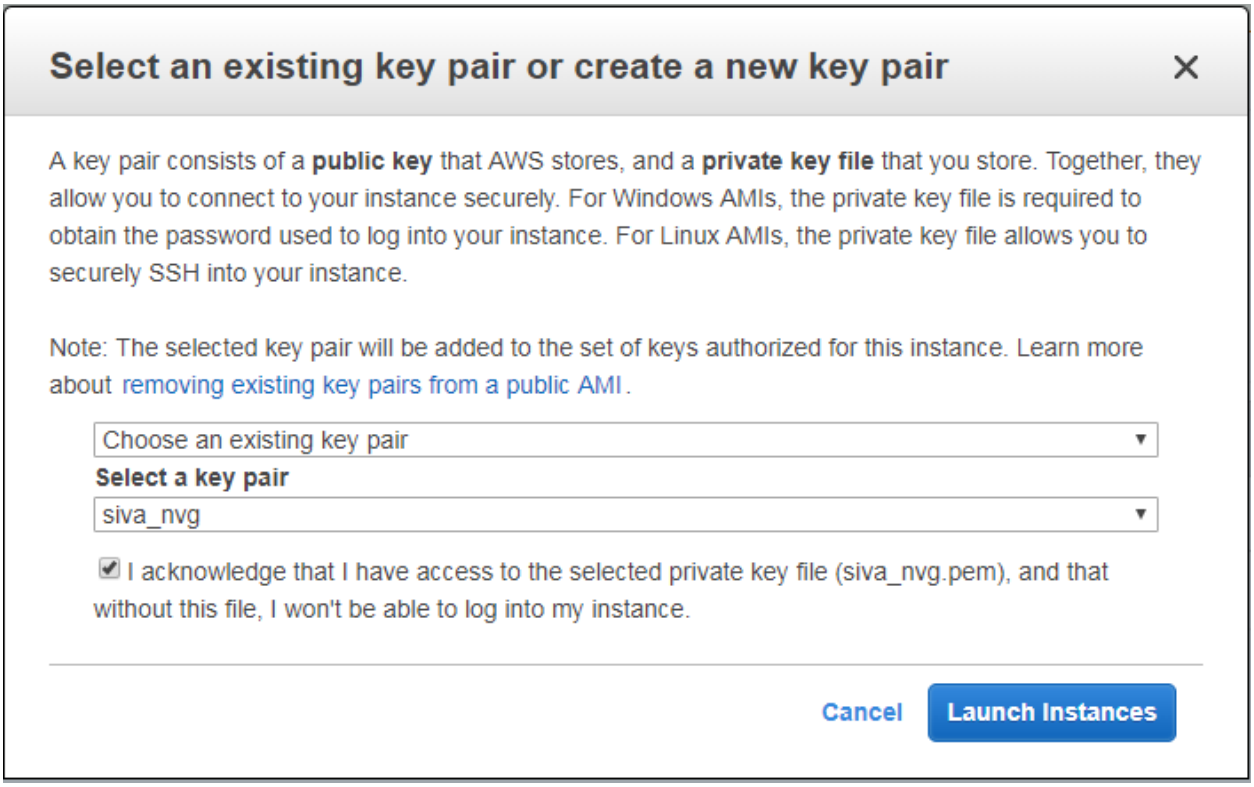


Click “Review and Launch”

Click “Launch”.



Select an existing key pair or create a new key pair.



Choose an existing key pair and select the key pair.

Then click “Launch instance”.