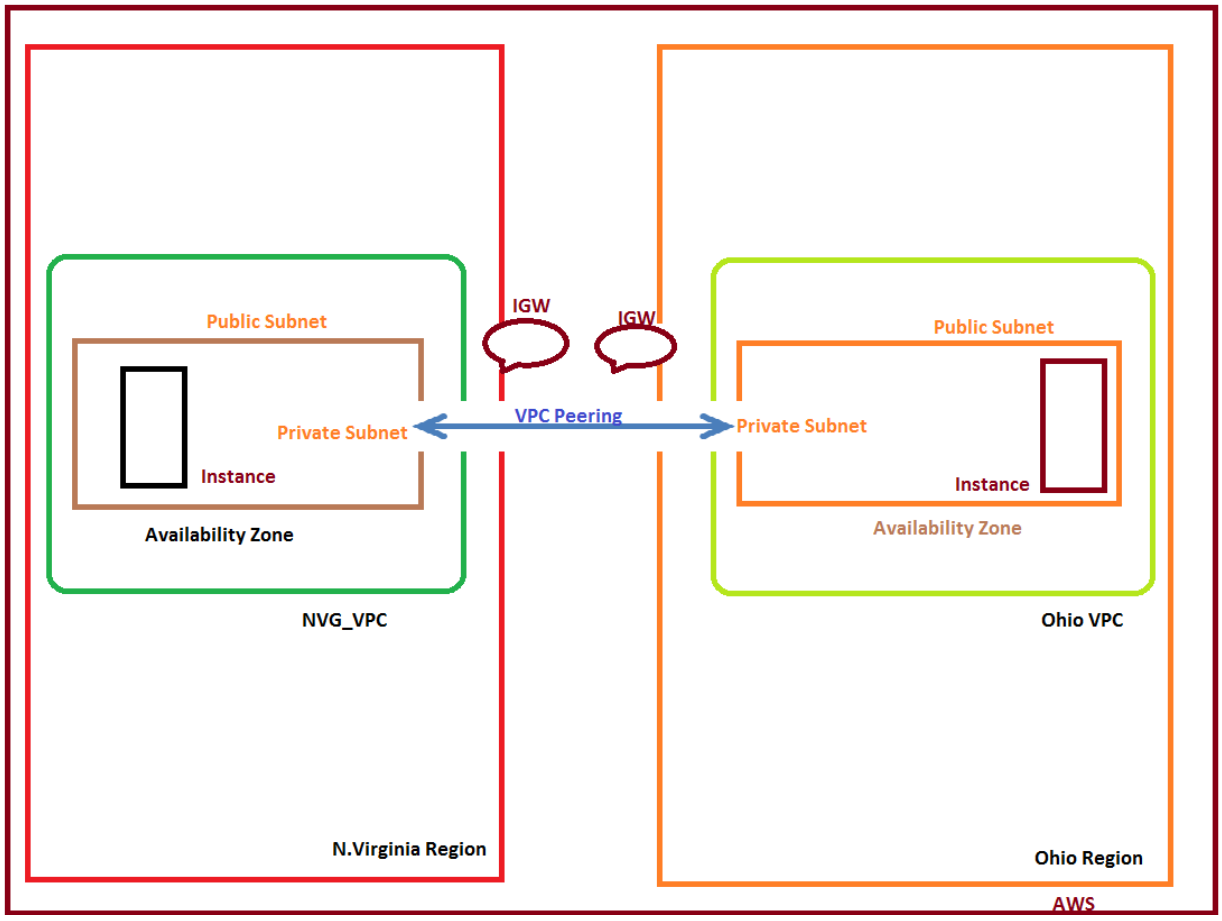
Lab 12

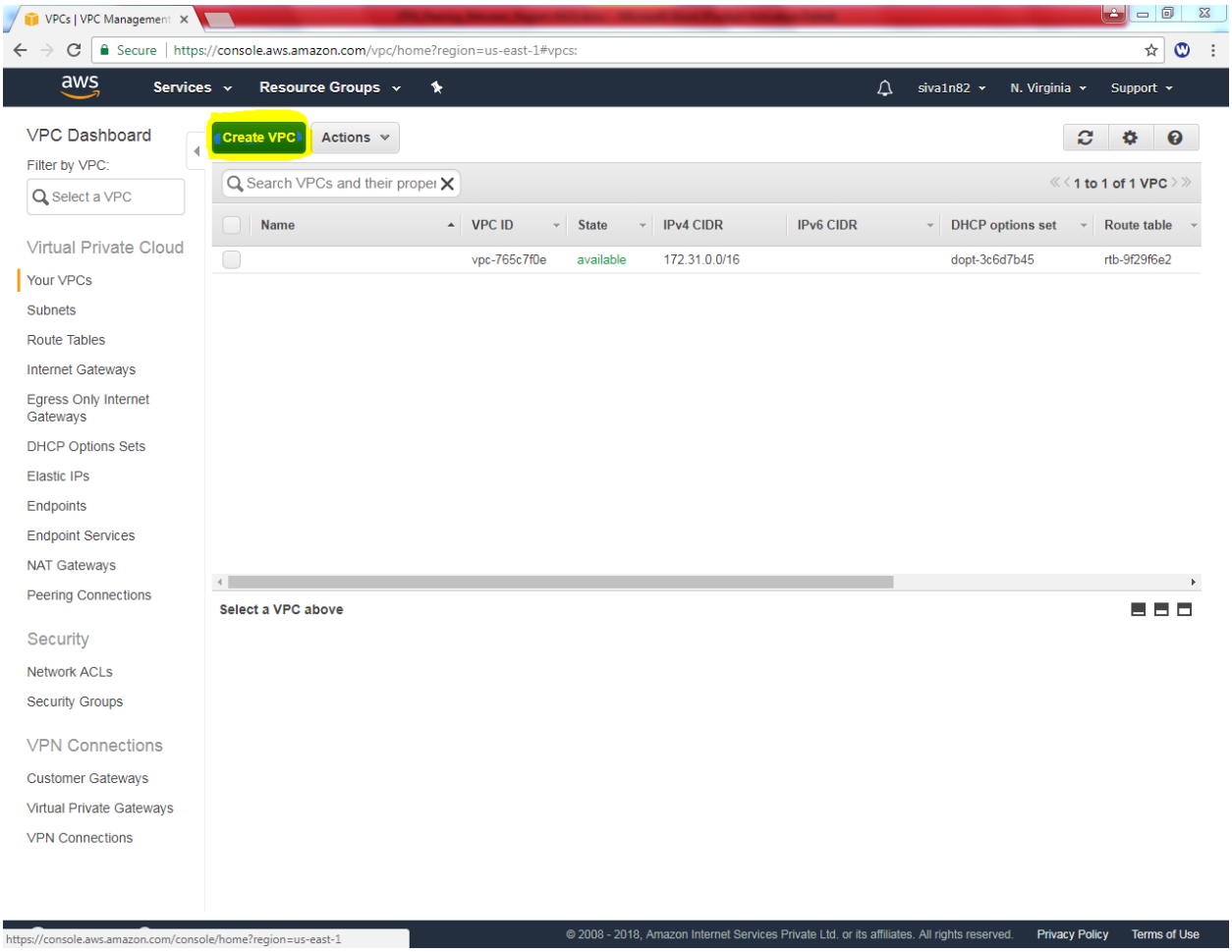
VPC Peering Lab – 1 of 3



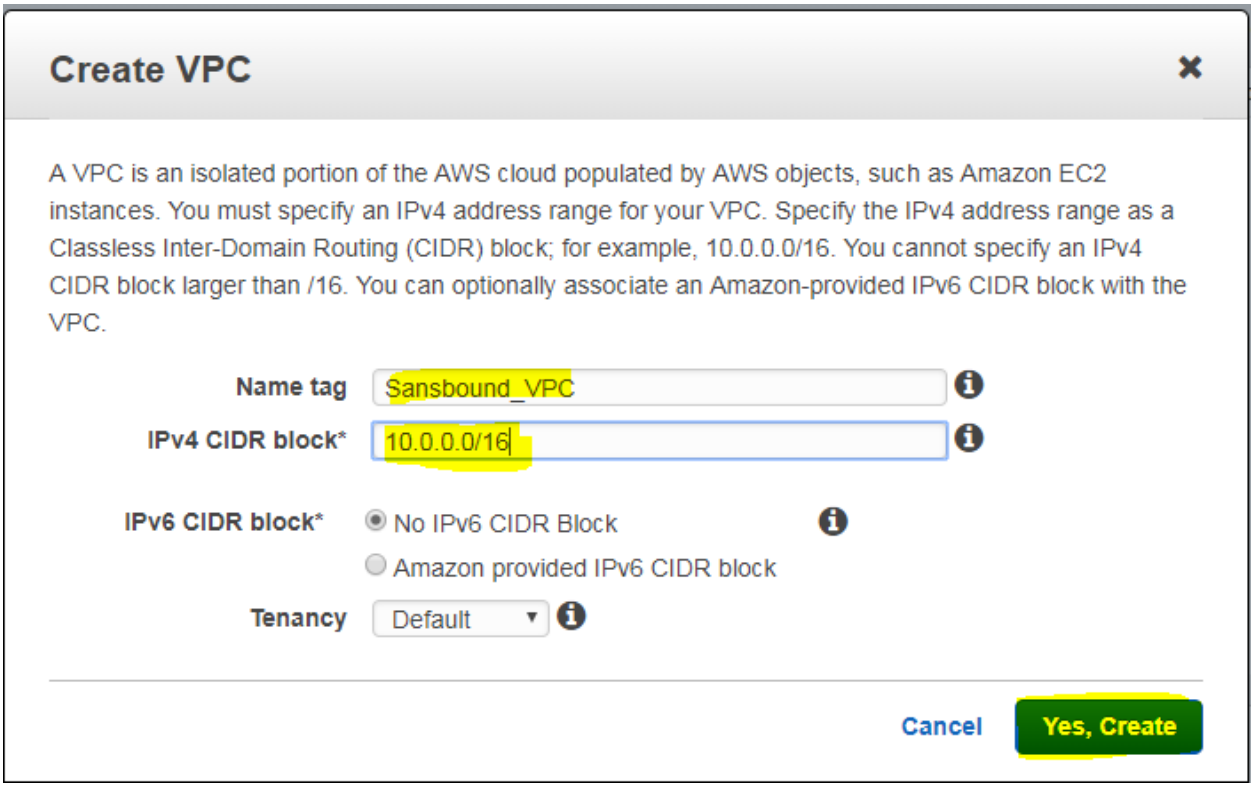
Scenario:

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

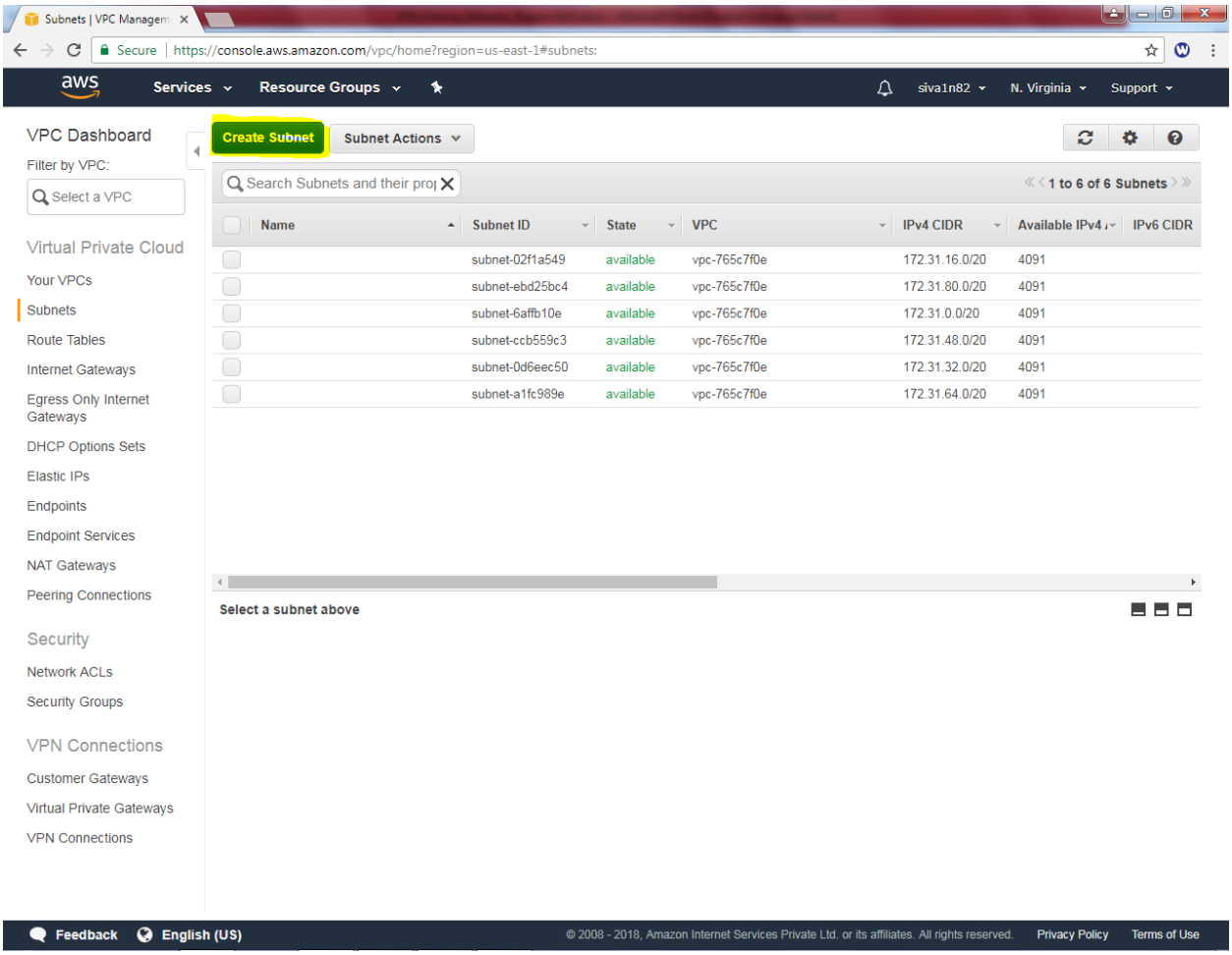


While create VPC, **Name tag** as “Sansbound_VPC” and **IPV4 CIDR Block** as 10.0.0.0/16

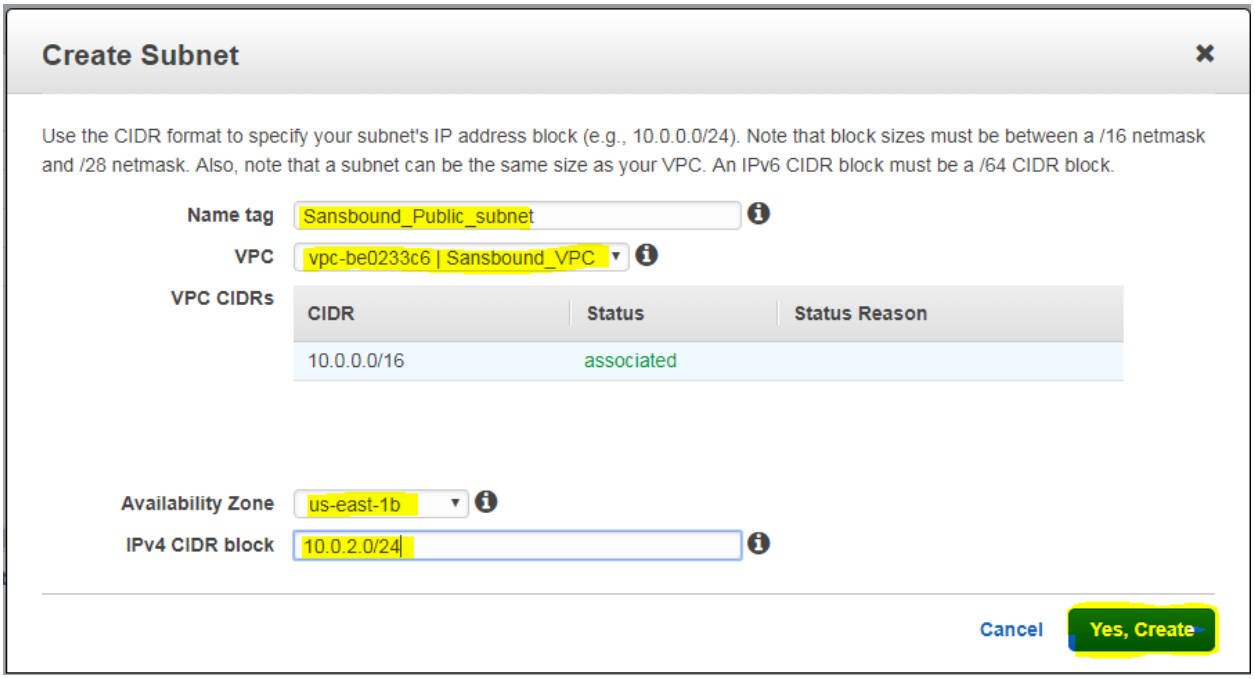


Then click “Create”.

Then we need to create subnet for the VPC.



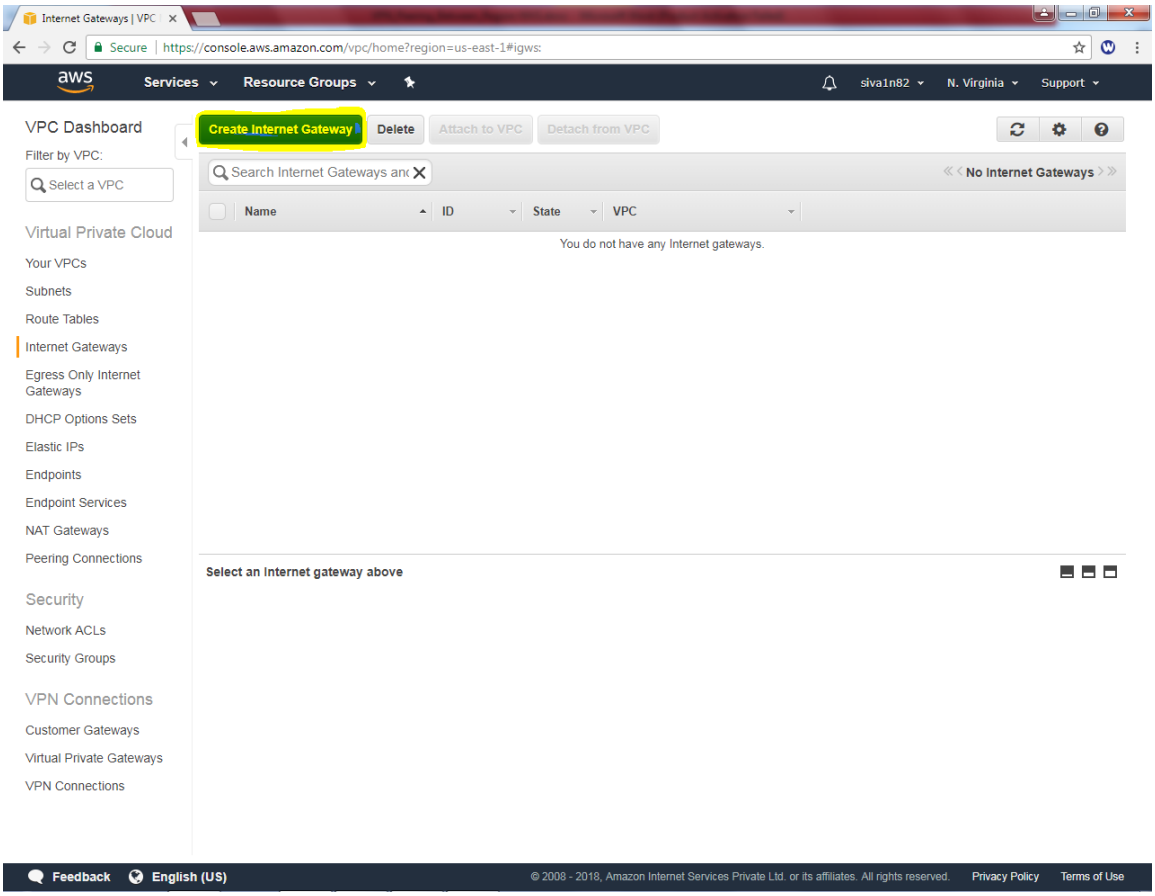
While creating subnet, **Name tag** as Sansbound_Public_subnet, **VPC** as “Sansbound VPC” **Availability zone** – 1B (Optional) and **IPV4 CIDR Block** as 10.0.2.0/24.



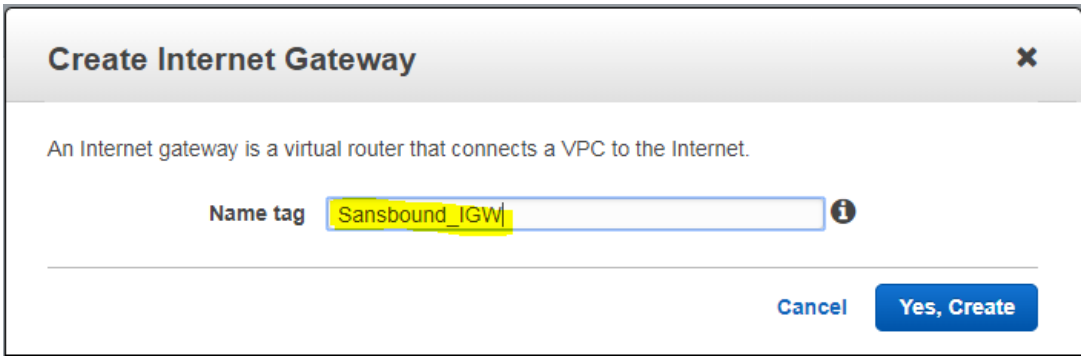
Then click “Yes, create”.

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

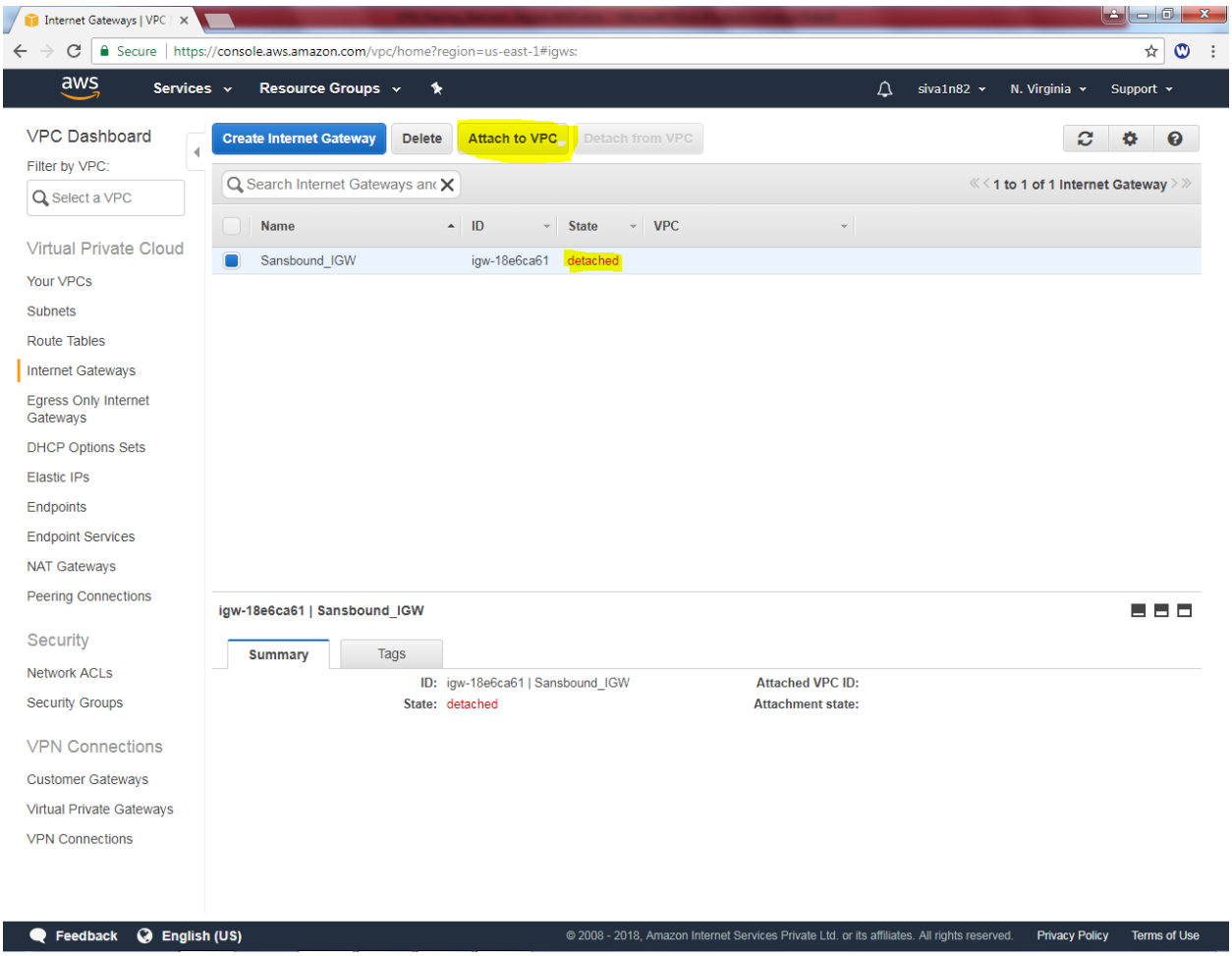
Click “Create Internet Gateway”



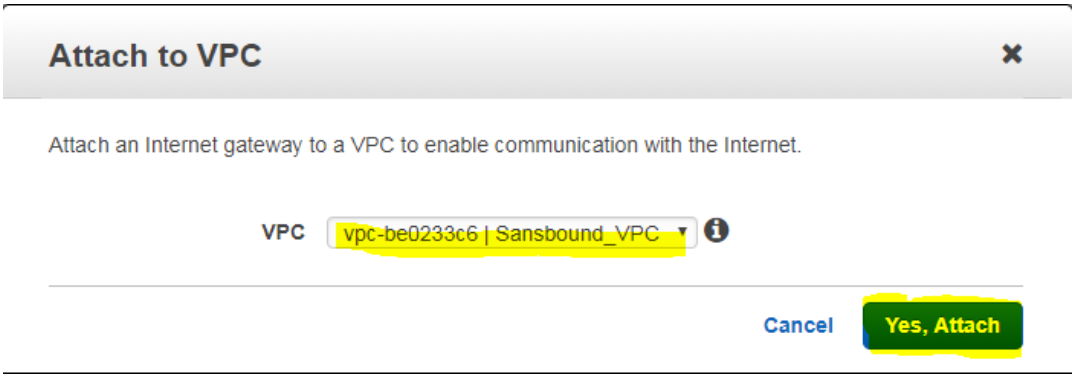
In **Name tag** “Sansbound IGW” and then click “Yes, create”.



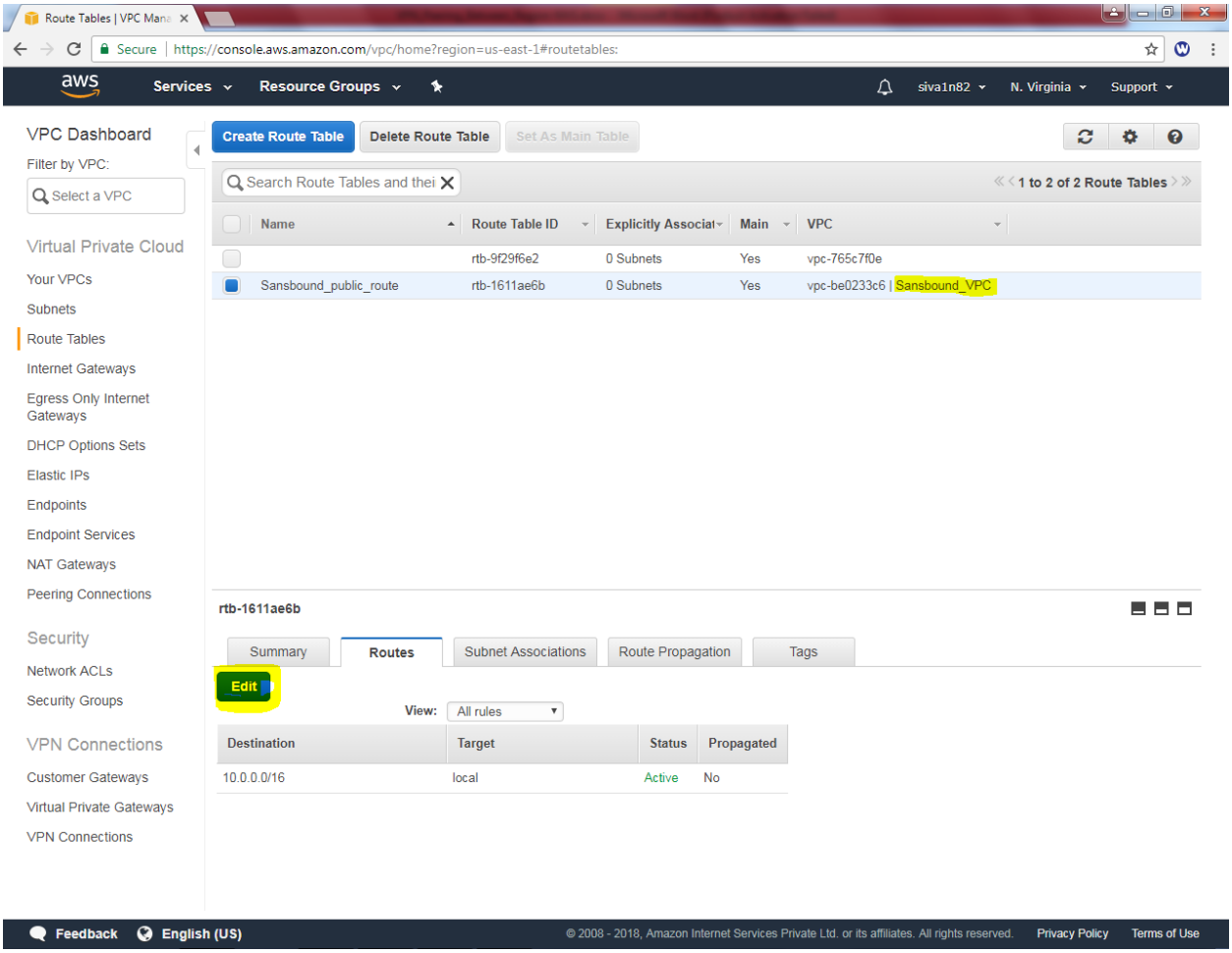
In Internet gateway, it's in detached state, we need the attach the VPC.



Click "Yes, attach".

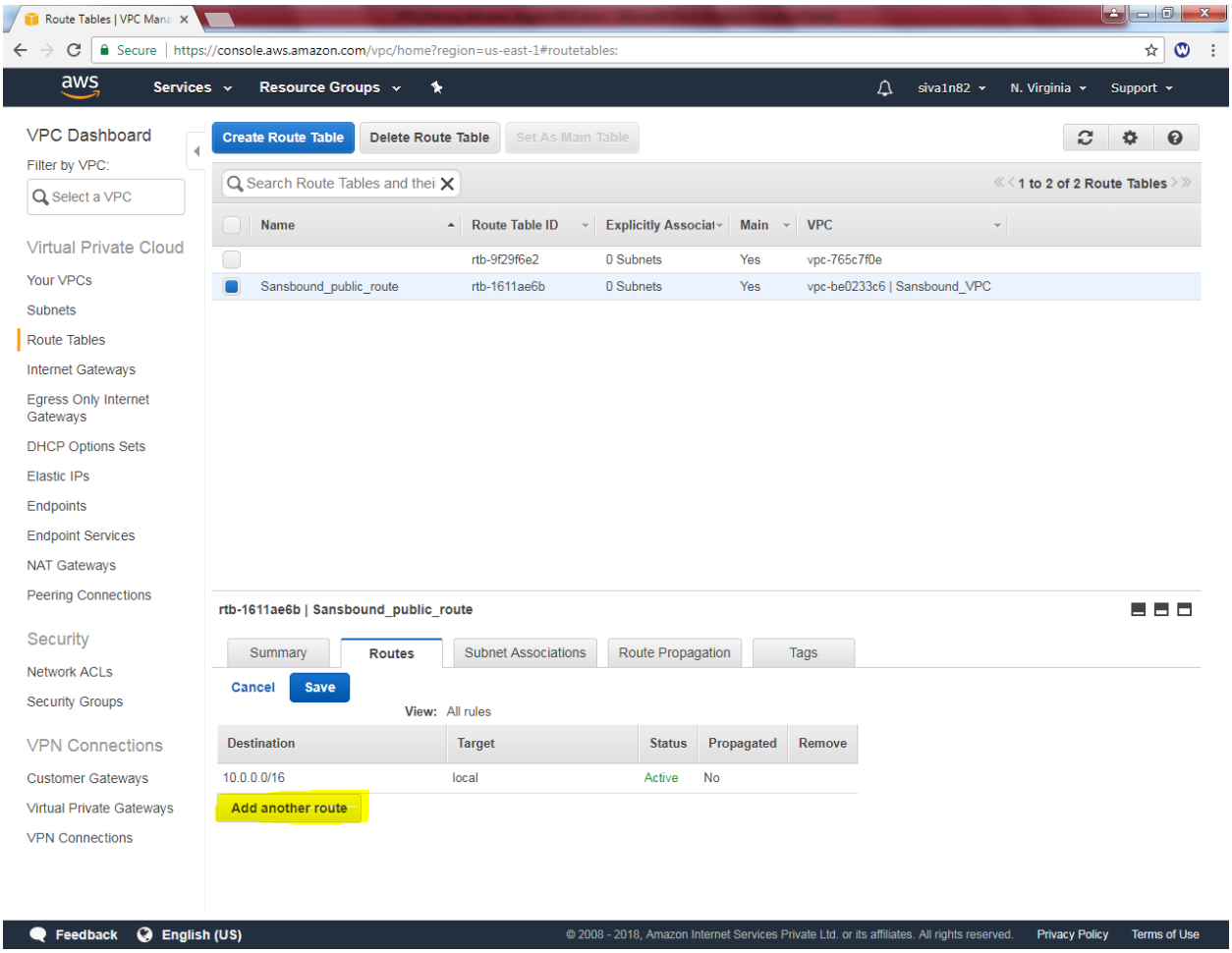

Attach to VPC
Attach an Internet gateway to a VPC to enable communication with the Internet.
VPC
vpc-be0233c6 | Sansbound_VPC
Cancel
Yes, Attach

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

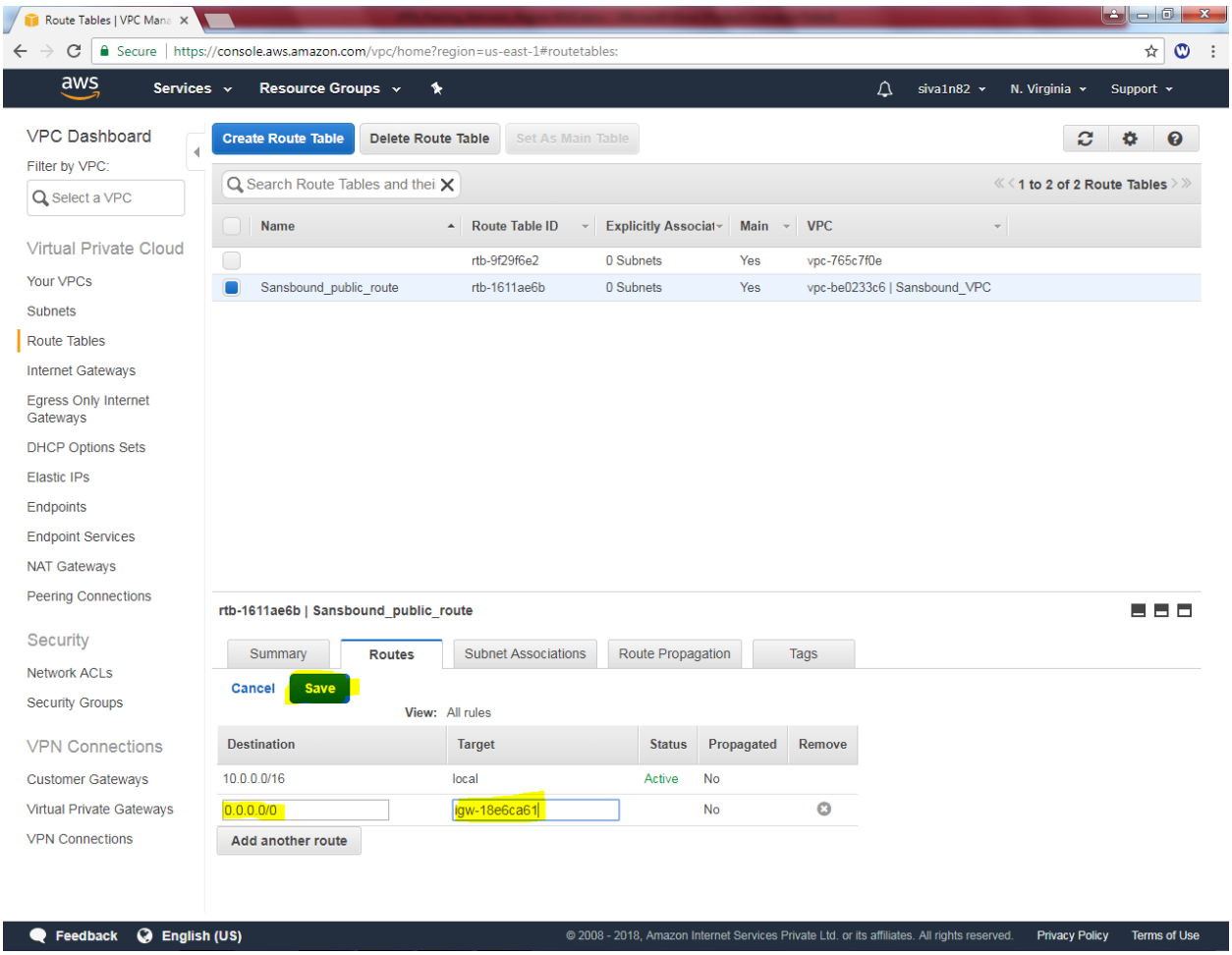


Then click “edit” option in route

Click “Add another route” option in route.

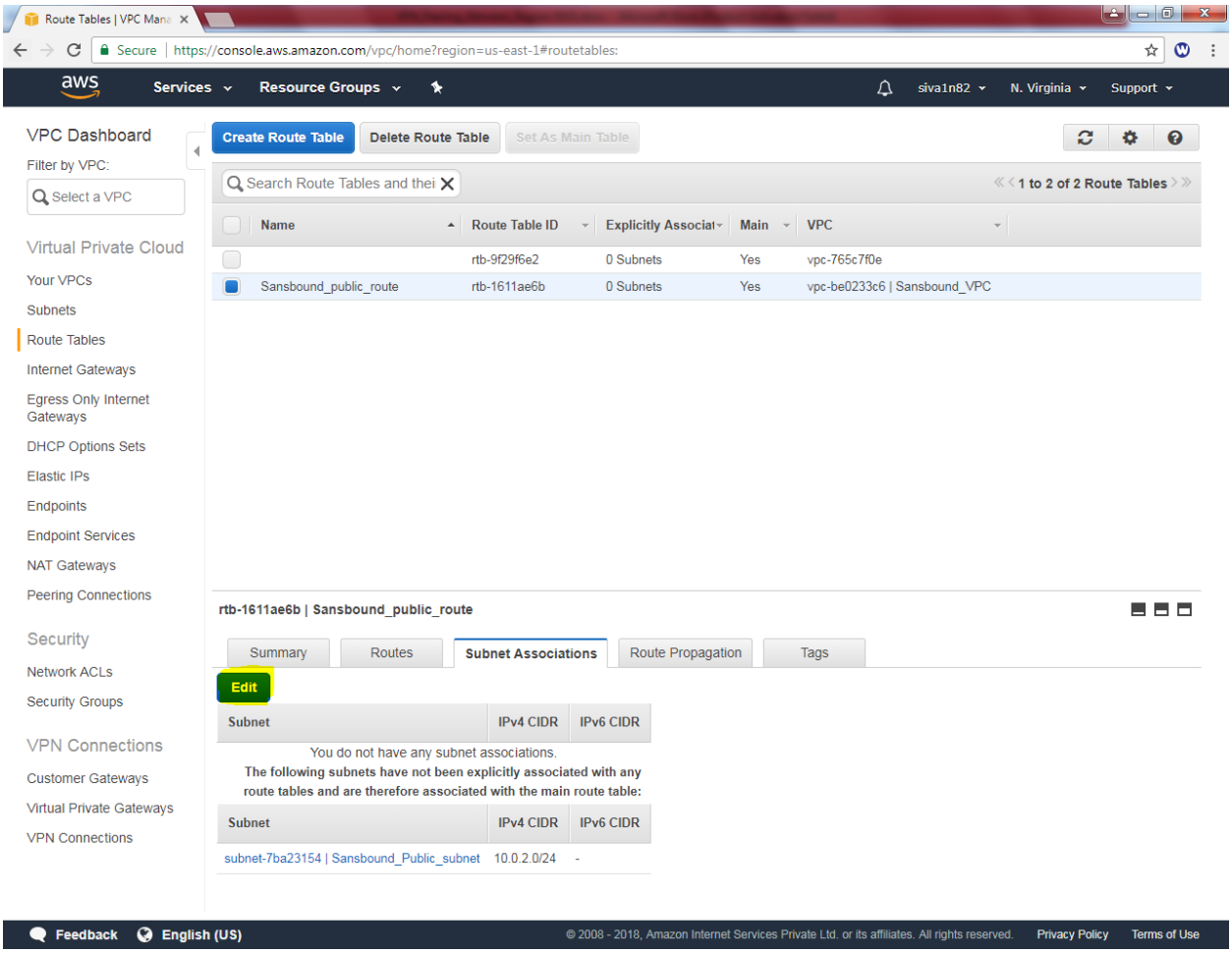


Add default route 0.0.0.0/0 and select **igw-*** as target.

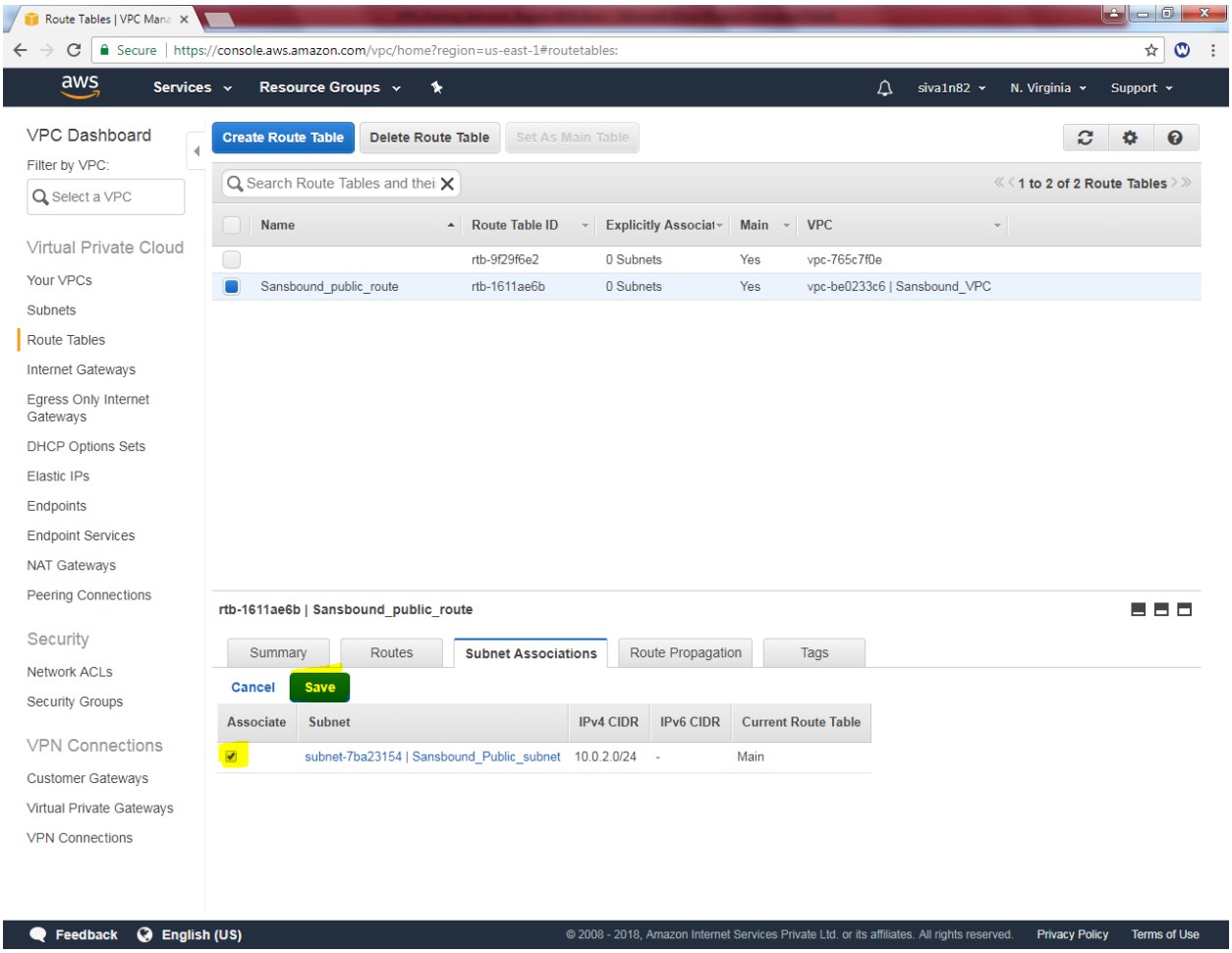


Then click “save”.

In “Subnet associations” click edit option.

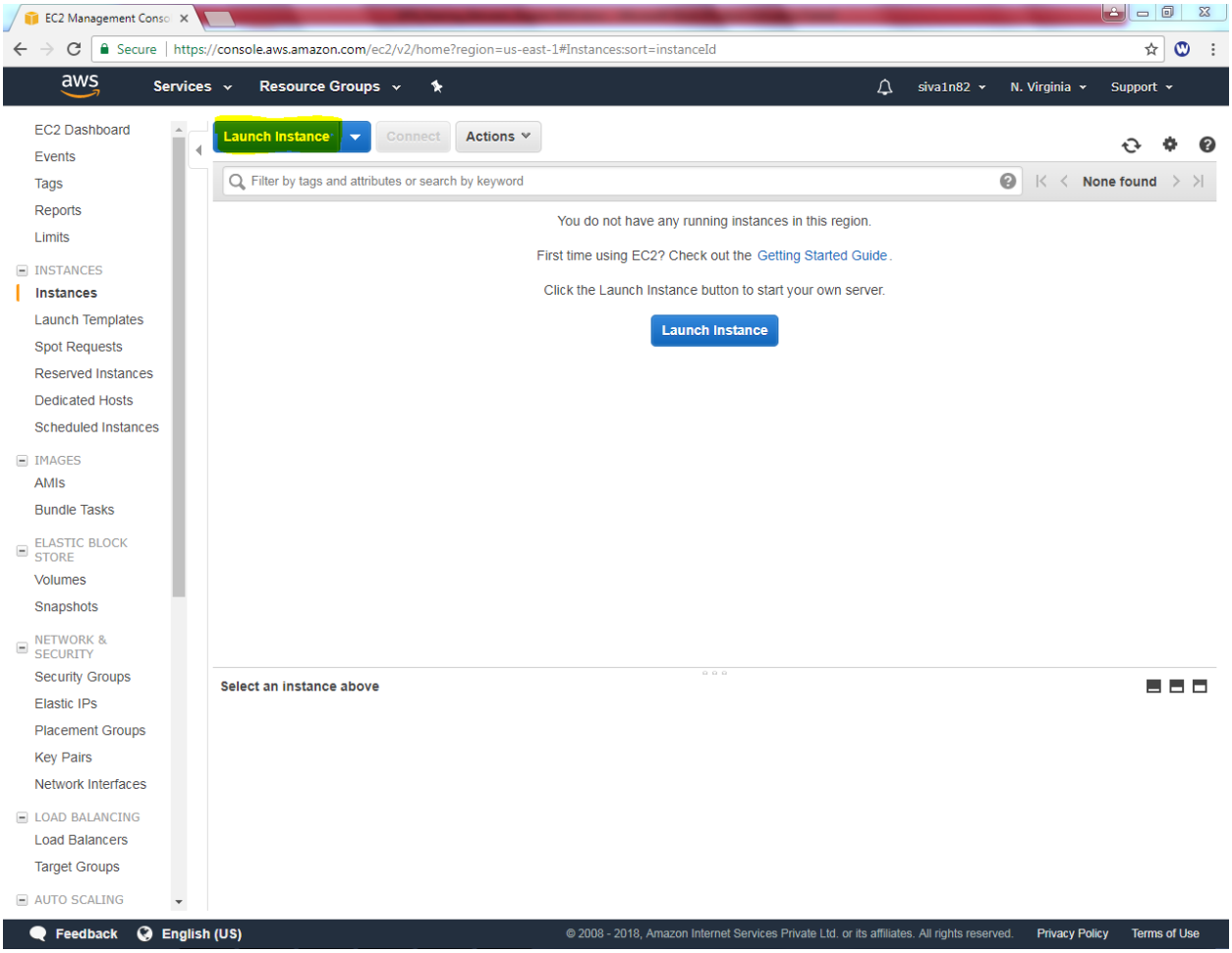


In Subnet associations select check box in “Sansbound Public Subnet”

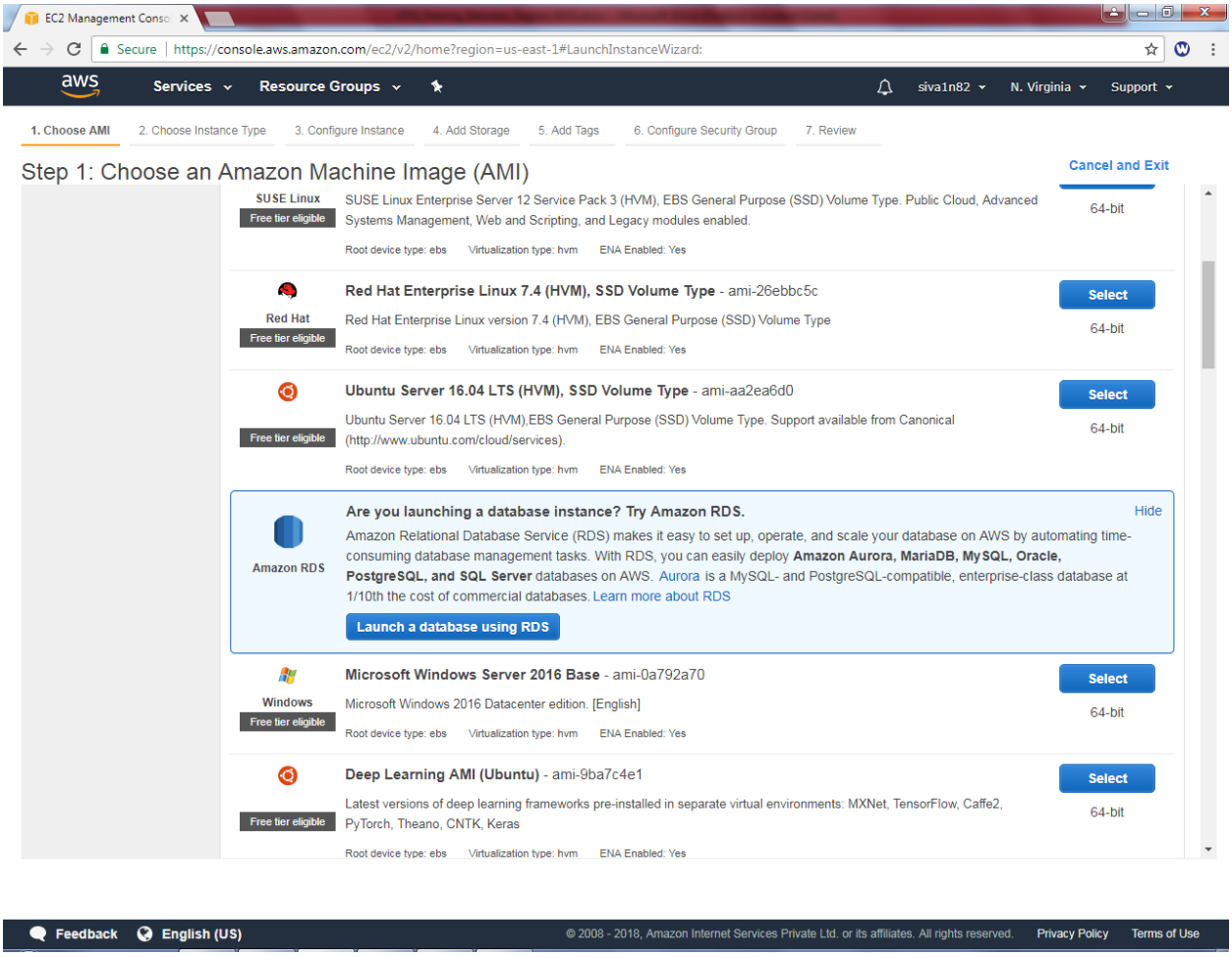


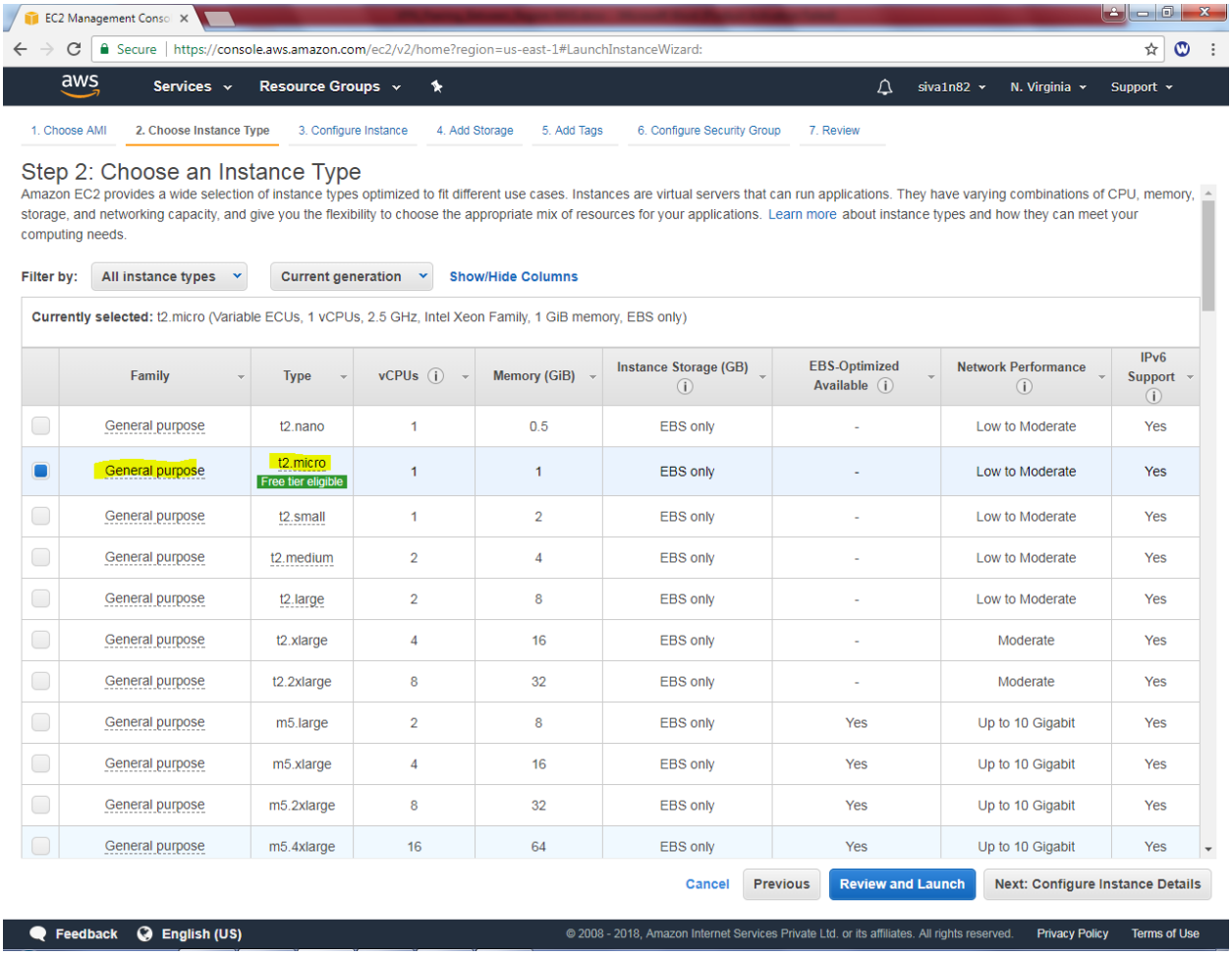
Click “Save”.

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
sivaln82
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 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance types
Current generation
Show/Hide Columns
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)
Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support
General purpose | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes
General purpose | t2.micro Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes
General purpose | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes
General purpose | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes
General purpose | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes
General purpose | t2.xlarge | 4 | 16 | EBS only | - | Moderate | Yes
General purpose | t2.2xlarge | 8 | 32 | EBS only | - | Moderate | Yes
General purpose | m5.large | 2 | 8 | EBS only | Yes | Up to 10 Gigabit | Yes
General purpose | m5.xlarge | 4 | 16 | EBS only | Yes | Up to 10 Gigabit | Yes
General purpose | m5.2xlarge | 8 | 32 | EBS only | Yes | Up to 10 Gigabit | Yes
General purpose | m5.4xlarge | 16 | 64 | EBS only | Yes | Up to 10 Gigabit | Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
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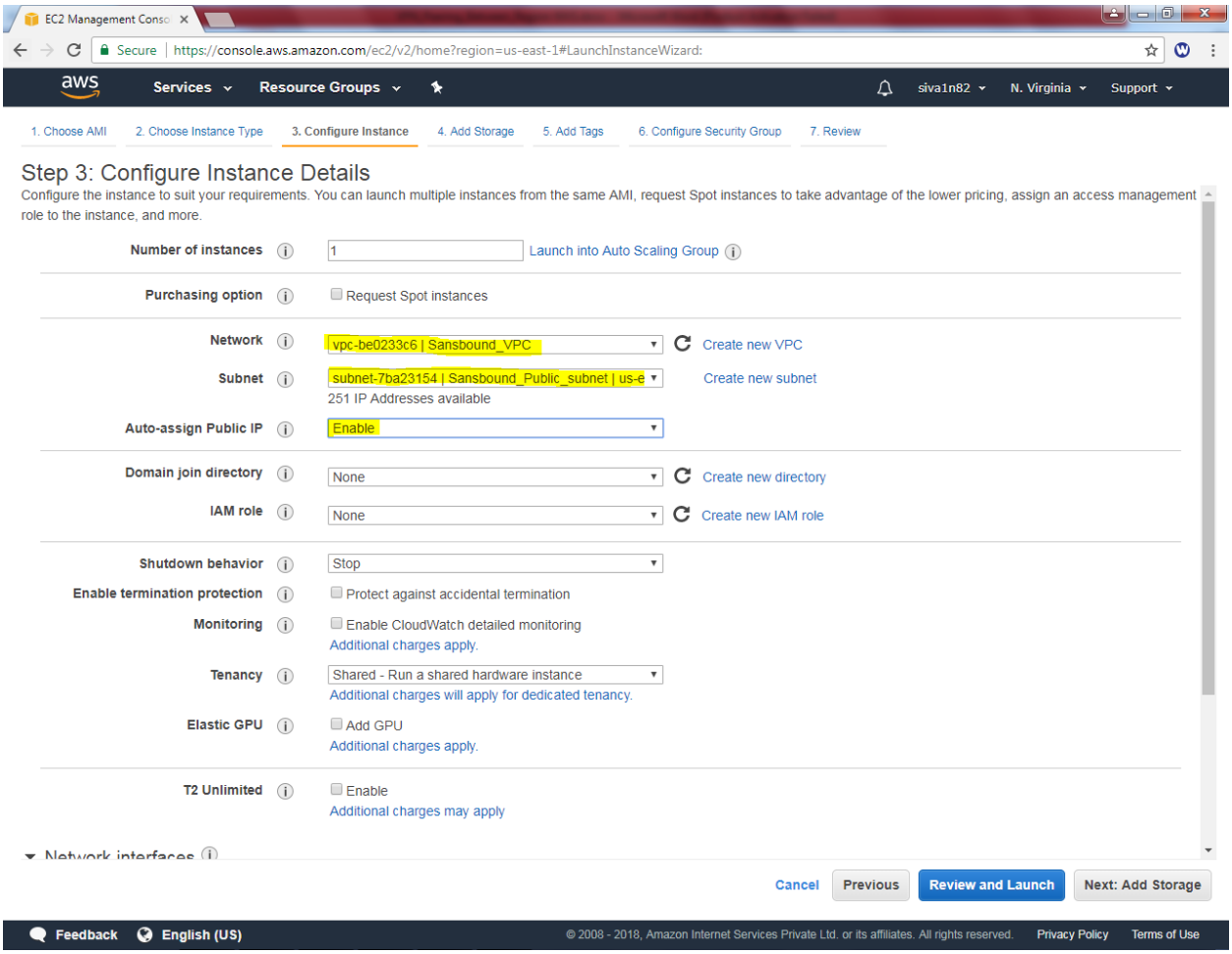
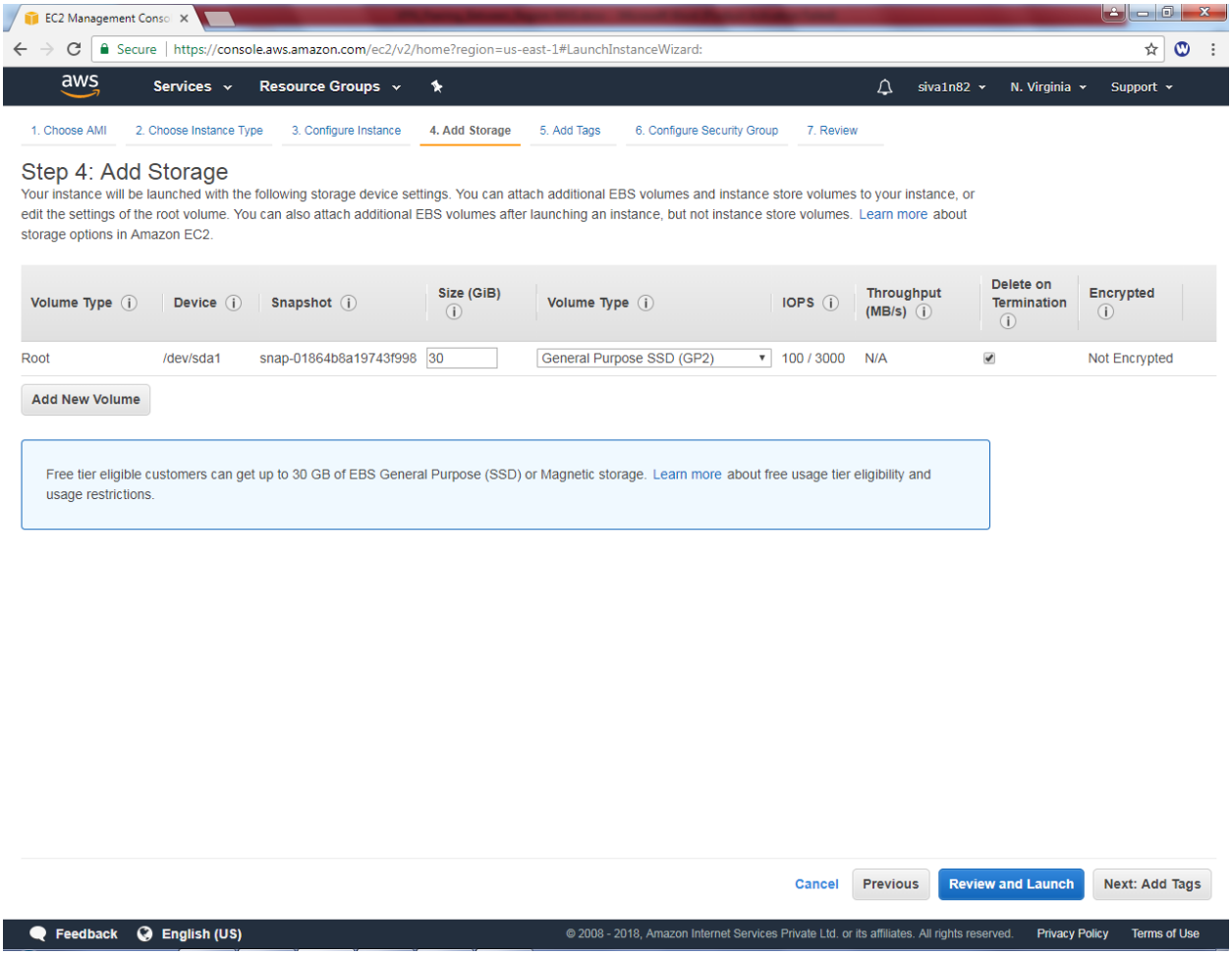
Select VPC as Sansbound_VPC

Select subnet as “Sansbound_Public_Subnet”.

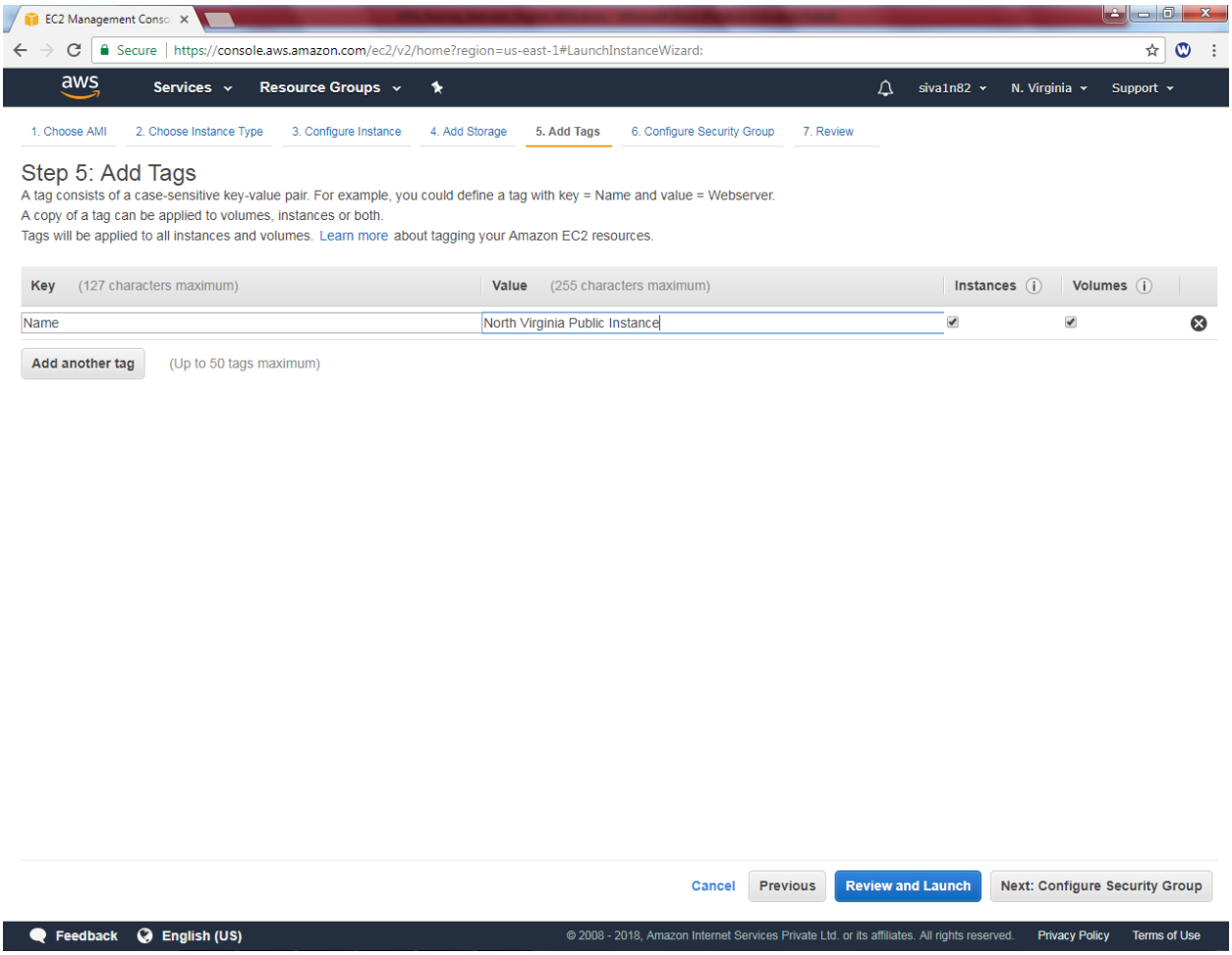
Auto assign Public IP : Enable



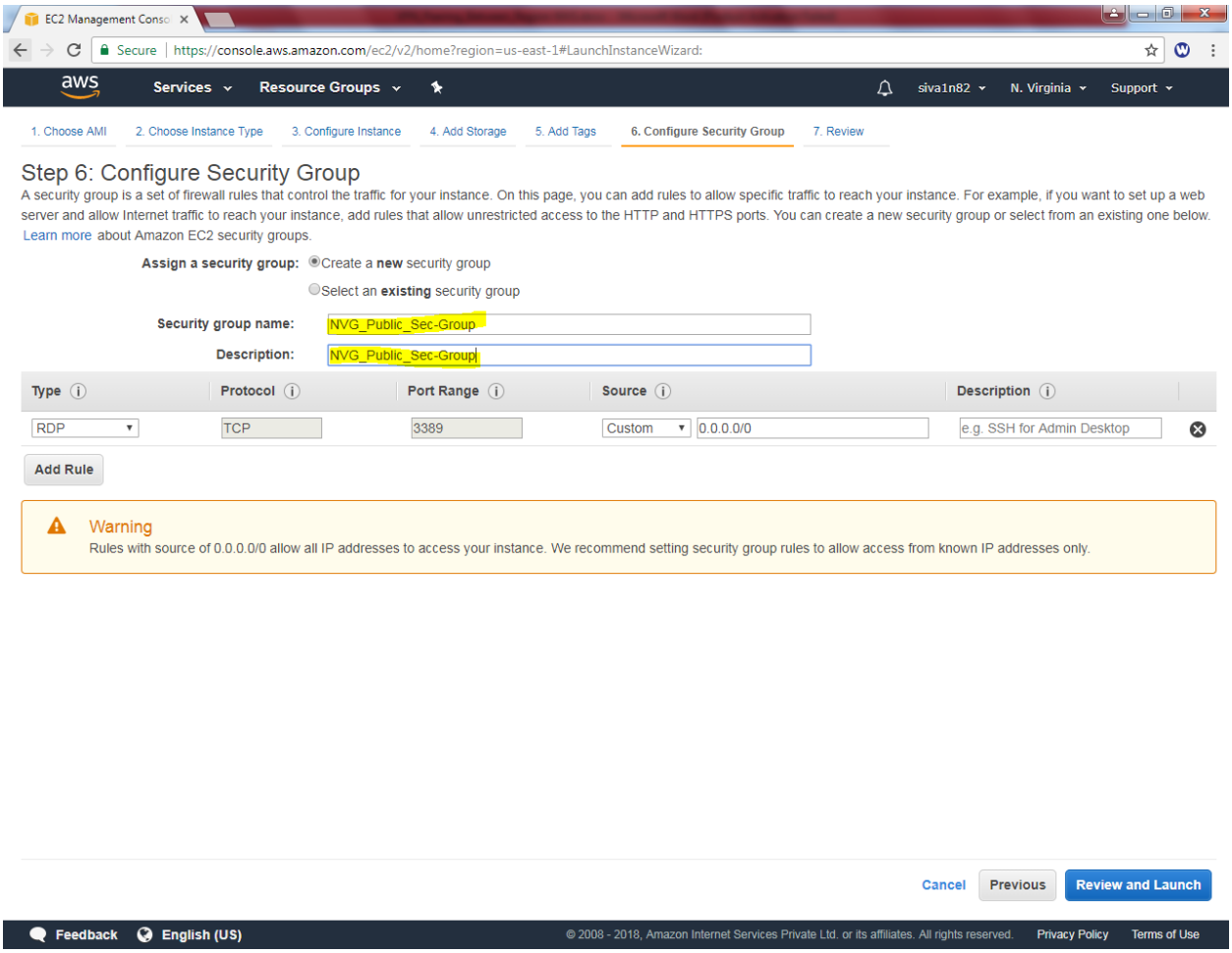
Leave default settings and click “Next”.



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

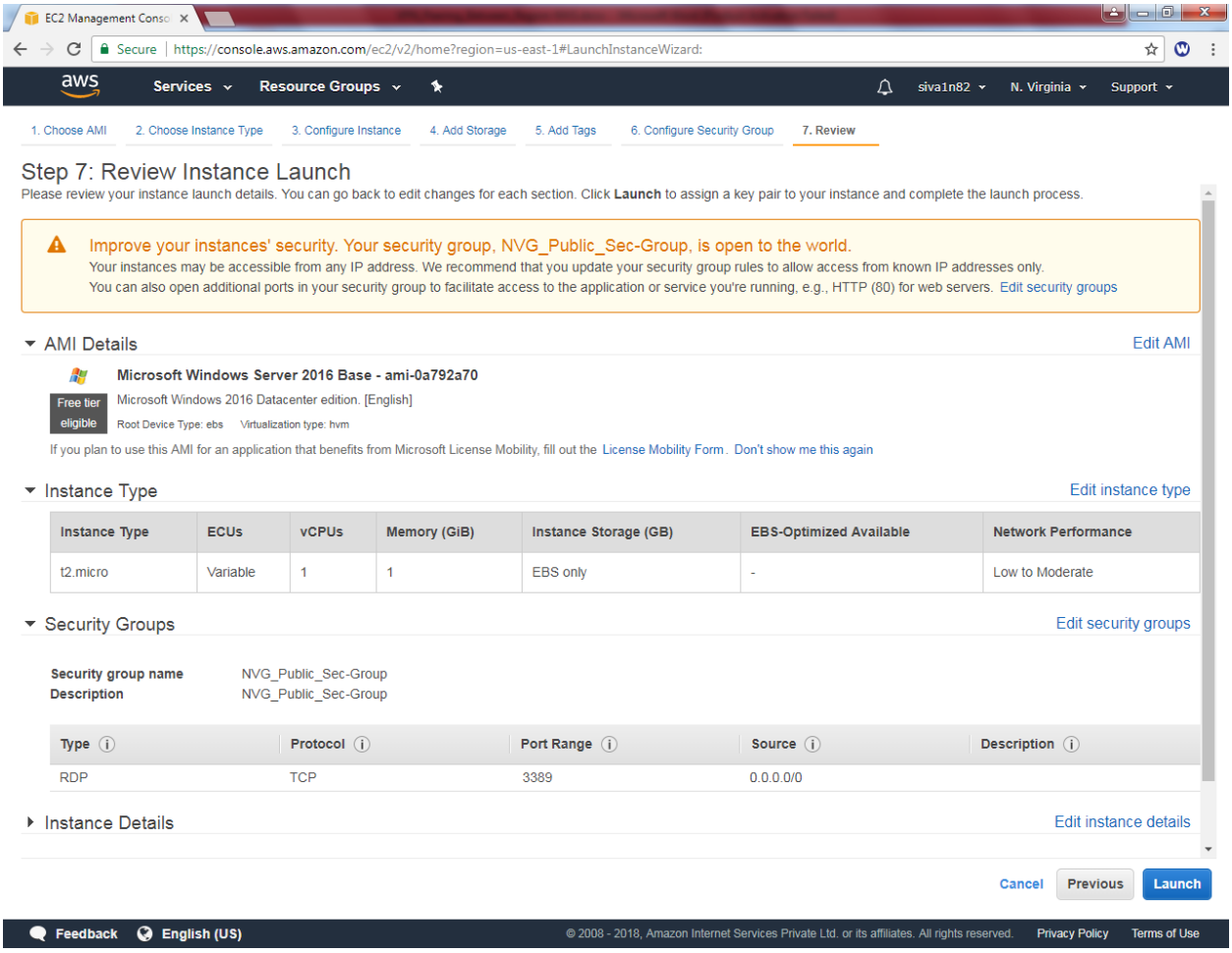


Create a new security group as “NVG_Public_Sec_Group”.

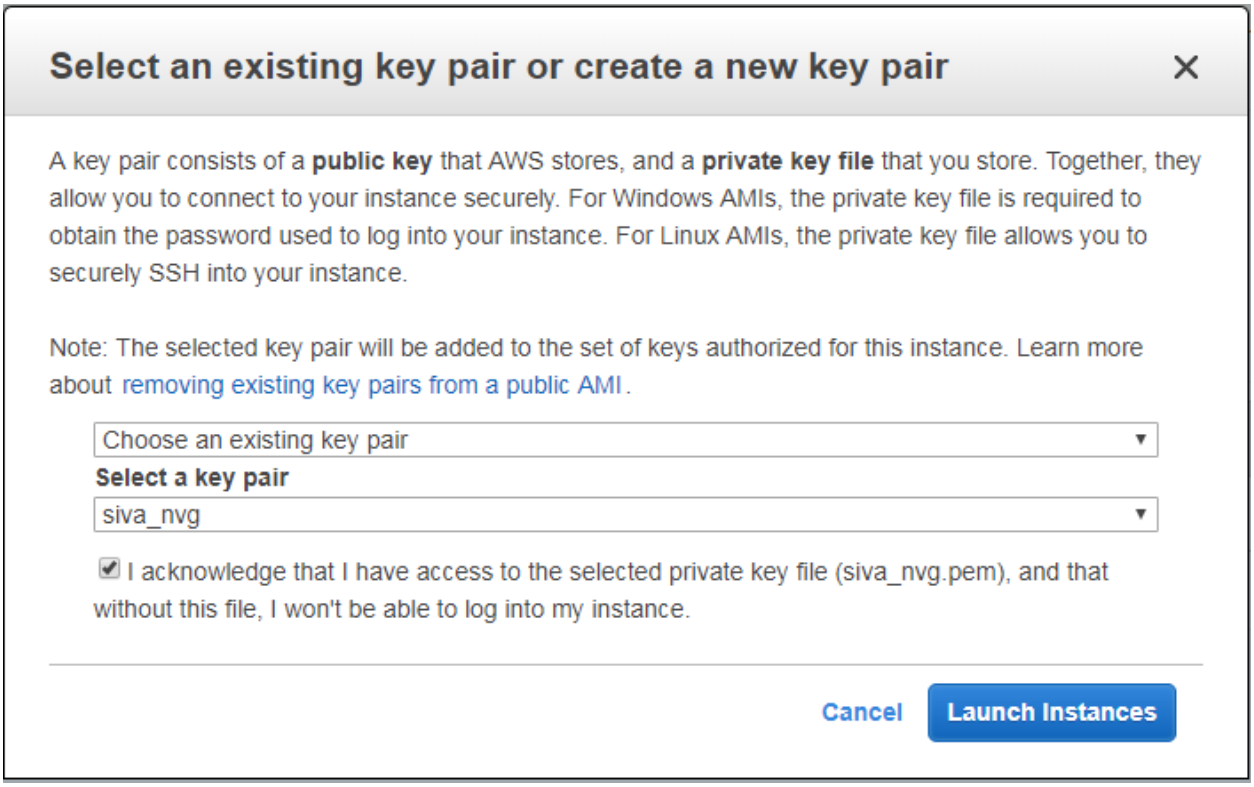


Click “Review and Launch”

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”.