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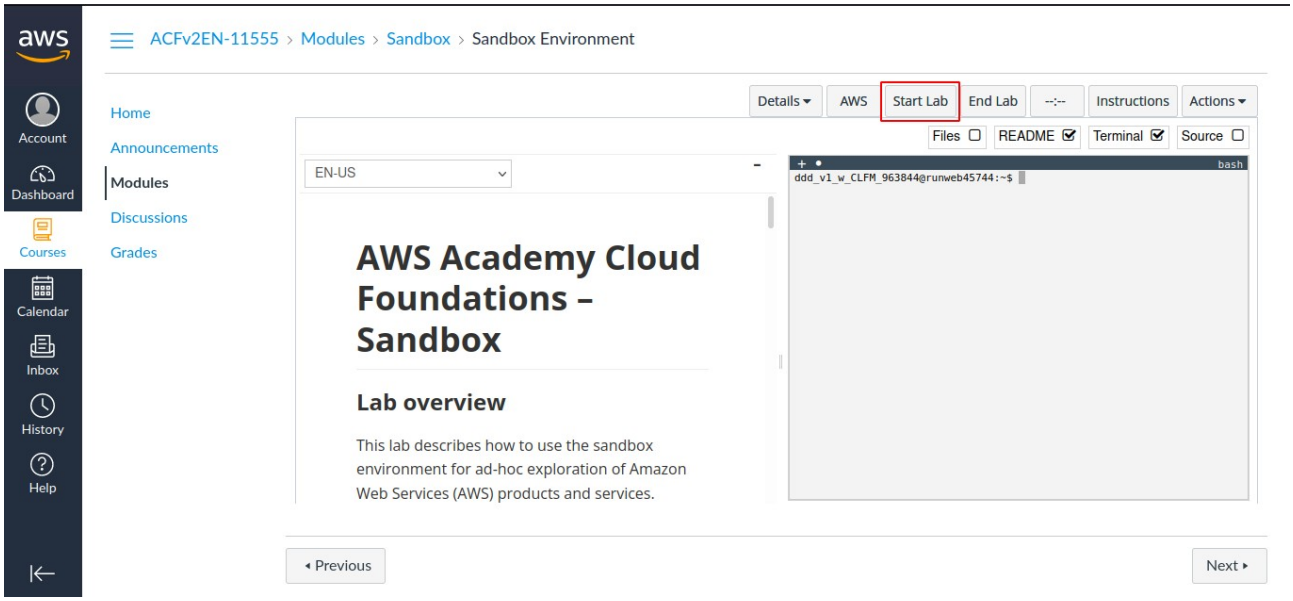
Enroll No: 2002276

Cloud Computing

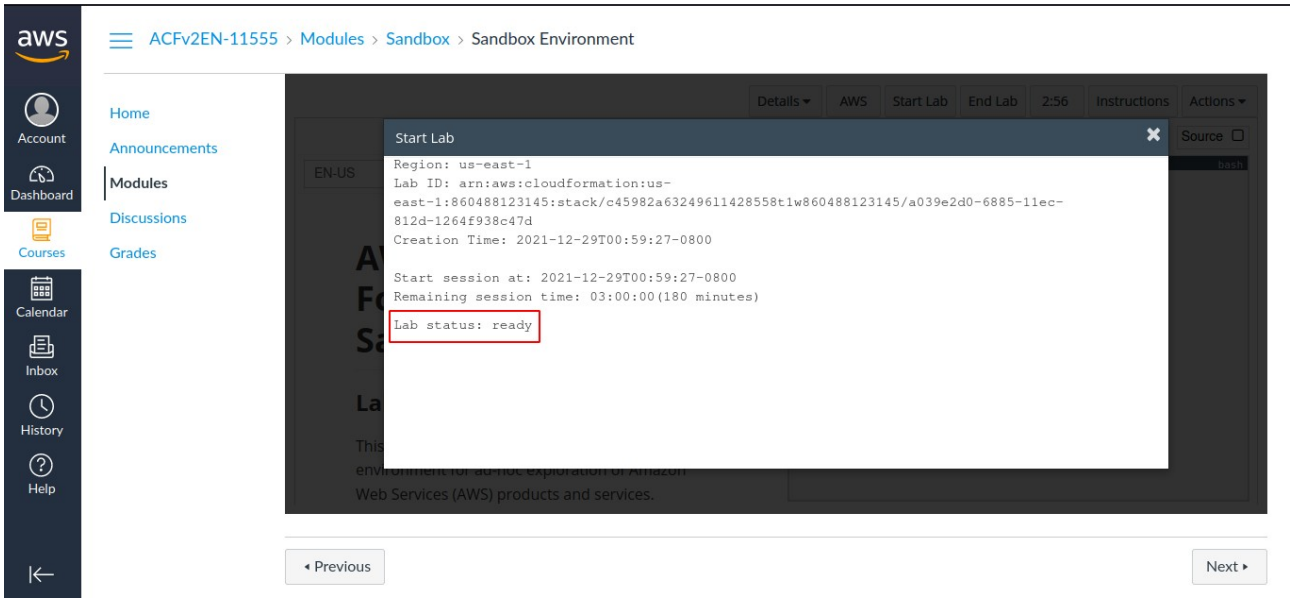
Practical Assignment No. 9

Build your VPC and Launch a Web Server

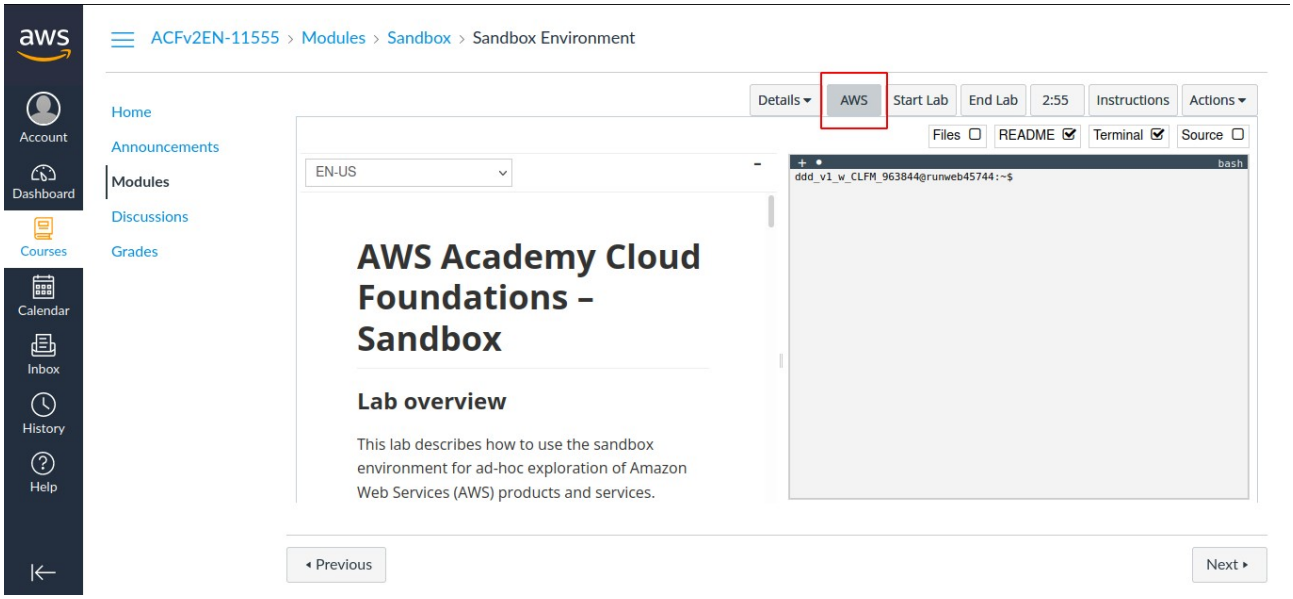
Step 1: At the top right panel above the console, choose **Start Lab** to launch your lab.



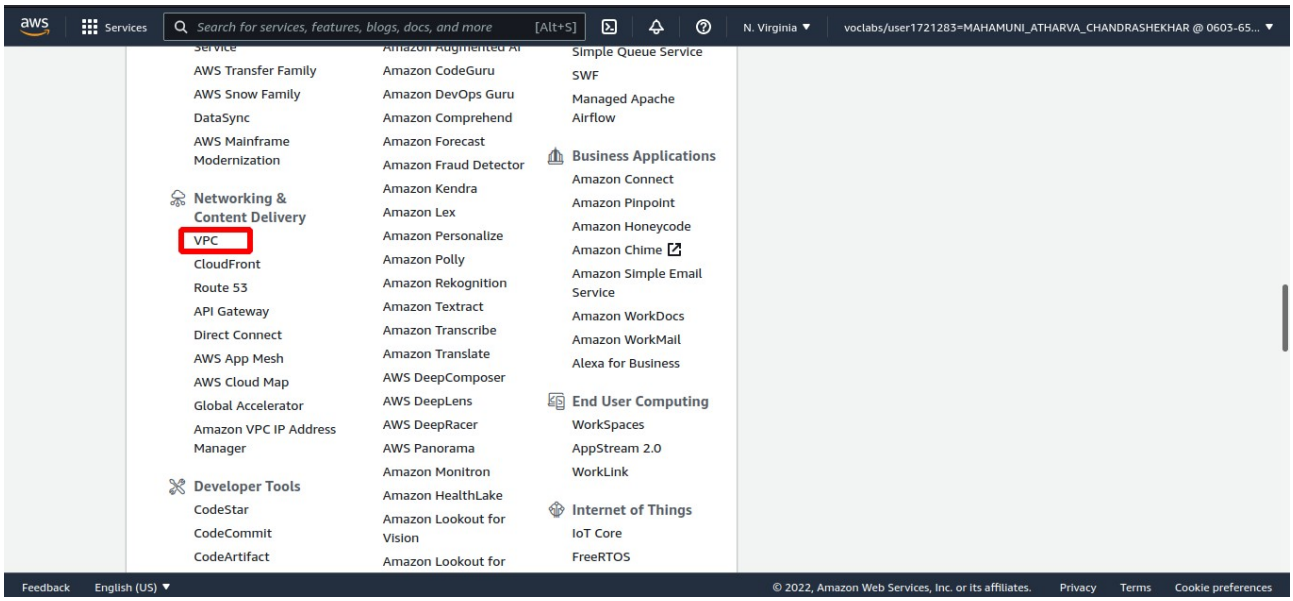
Step 2: Wait until you see the message "**Lab status: ready**", then choose the **X** to close the Start Lab panel.



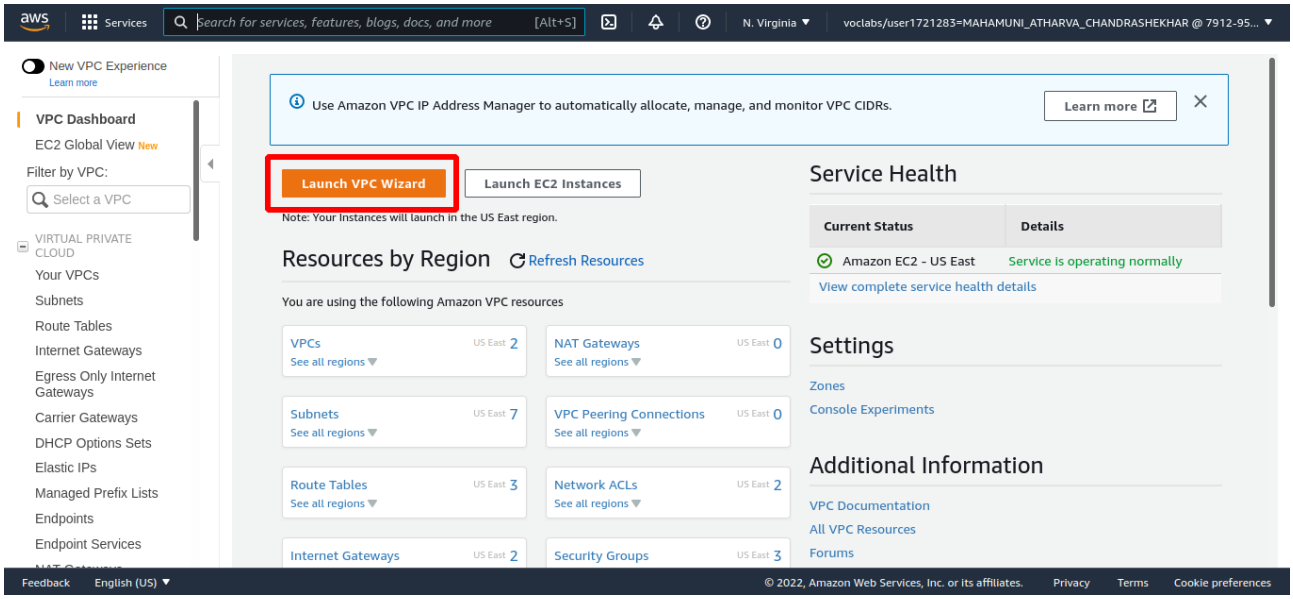
Step 3: Now choose AWS
This will open the AWS Management Console in a new browser tab. The system will automatically log you in.



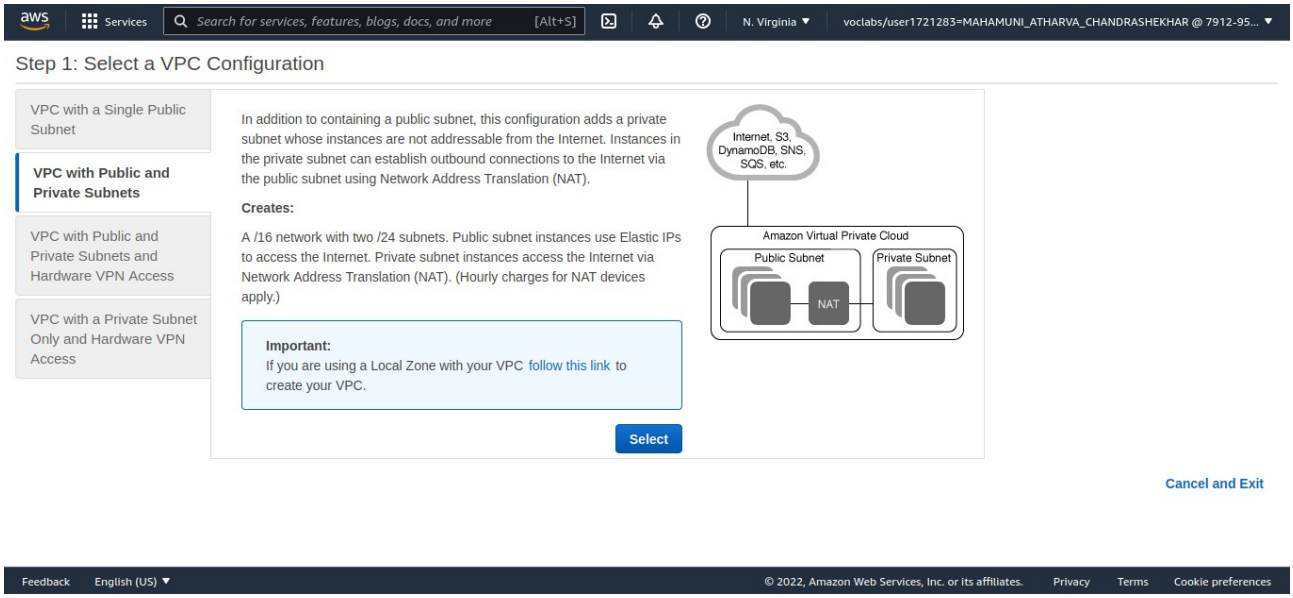
Step 4: In the **AWS Management Console** on the **Services** menu, choose **VPC**.



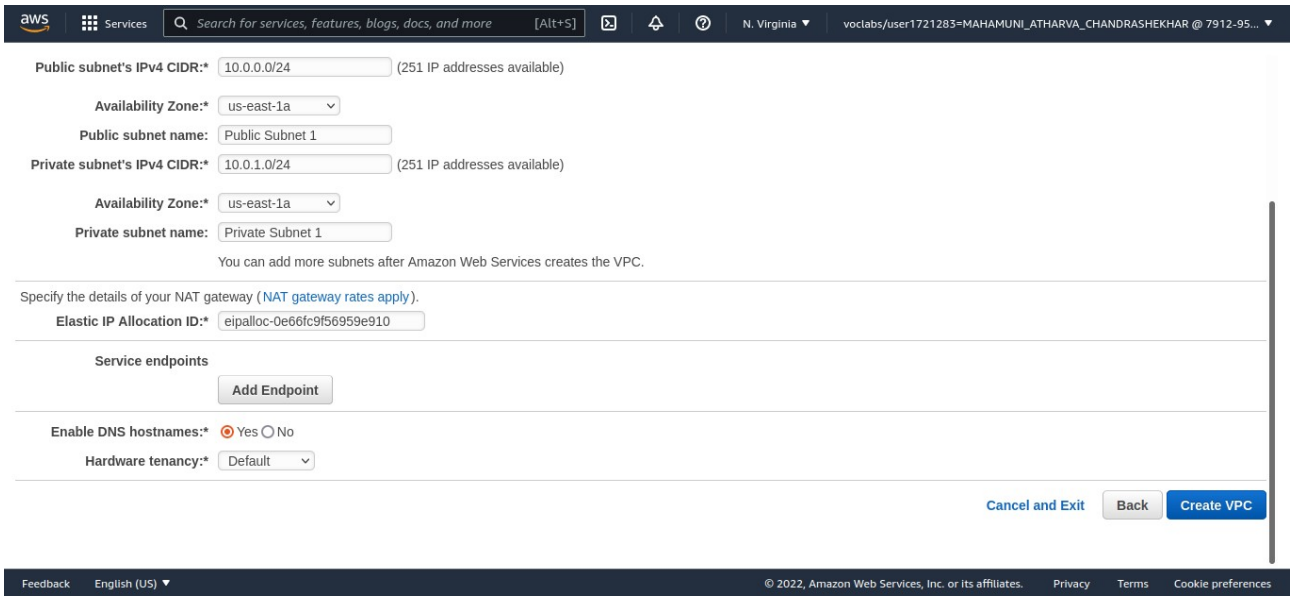
Step 5: Choose Launch VPC Wizard



Step 6: In the left navigation pane, choose **VPC with Public and Private Subnets** (the second option).

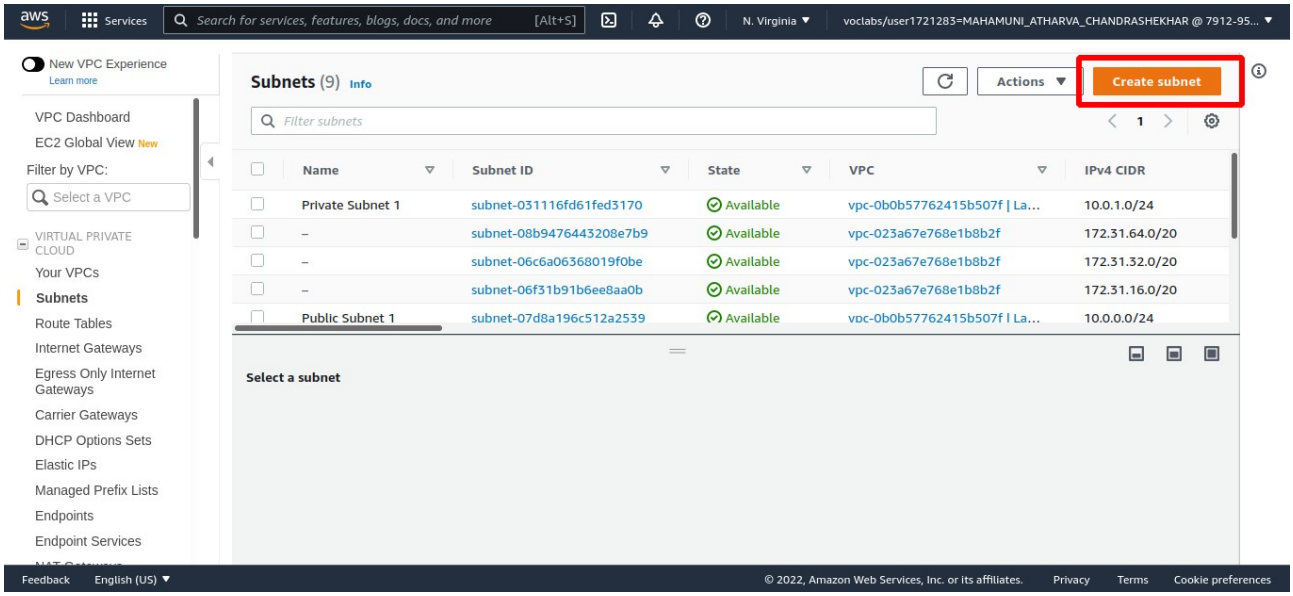


Step 7: Choose Select then configure, Once it is complete, choose **Create VPC**

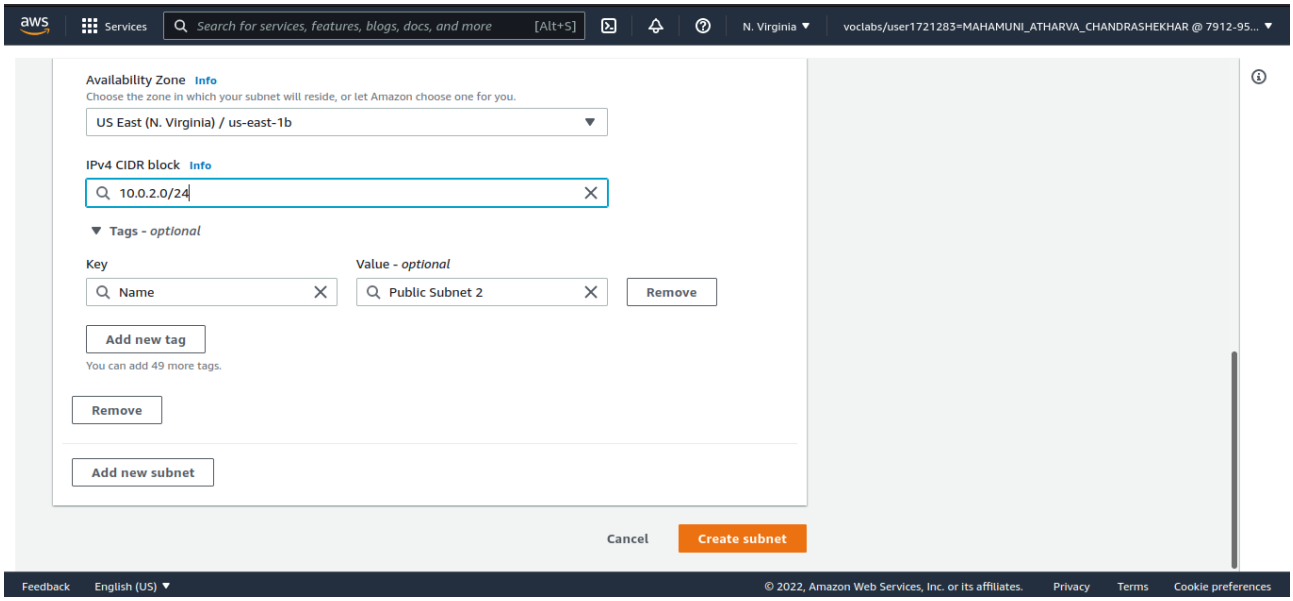


Step 8**:** Create Additional Subnets
In the left navigation pane, choose **Subnets**.

First, you will create a second Public Subnet. Choose **Create subnet** then configure:

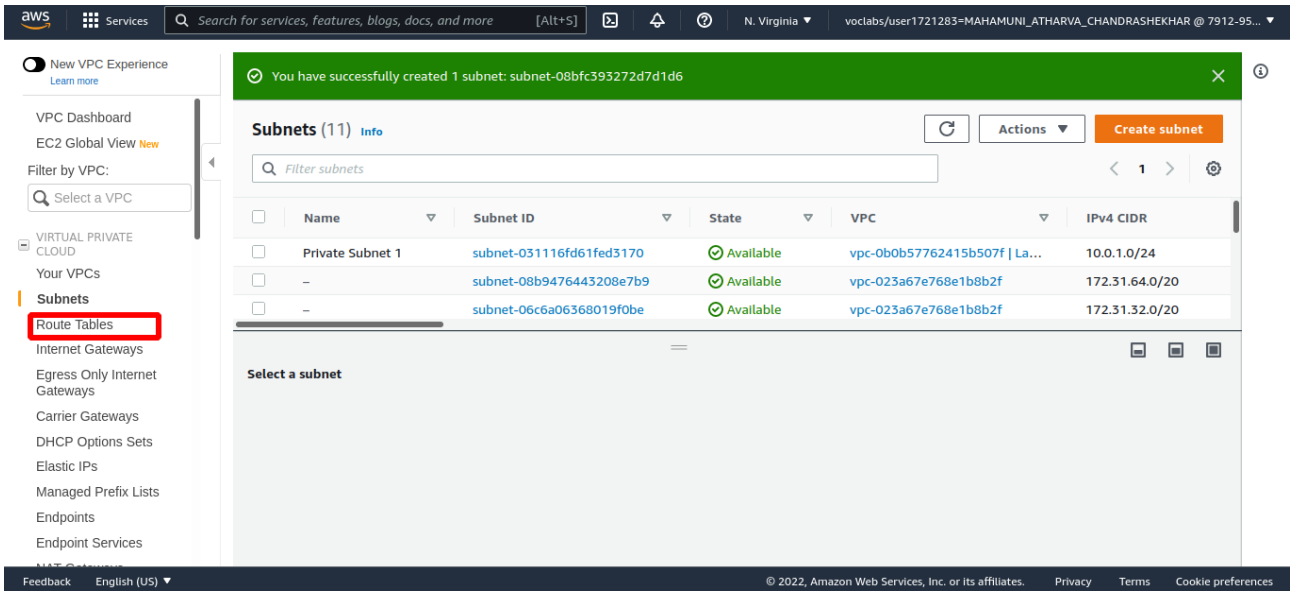


Step 9**:** Choose Create subnet

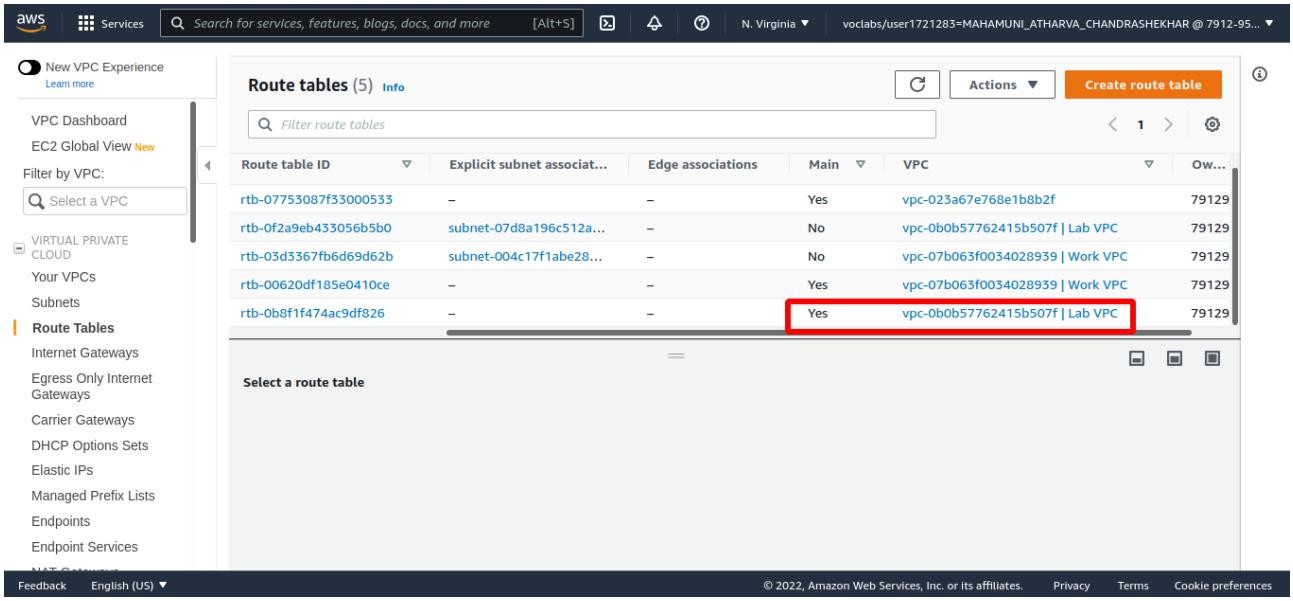


Do the same for private subnet 2

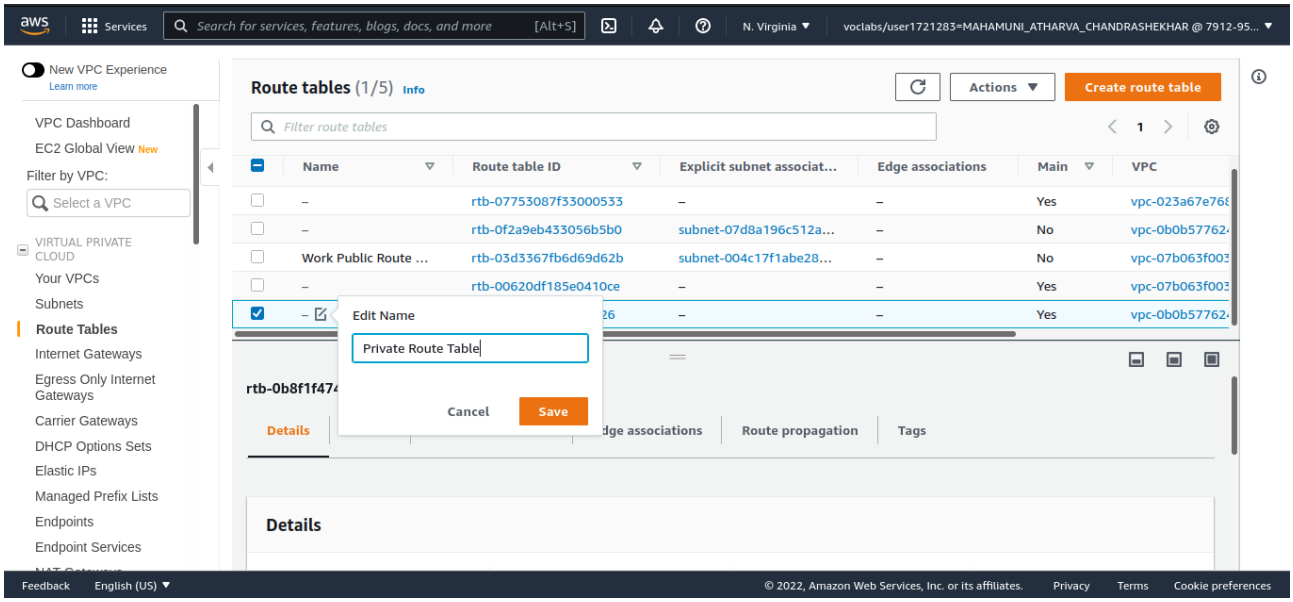
Step 10: In the left navigation pane, choose **Route Tables**.



Step 11: Select the route table with **Main = Yes** and **VPC = Lab VPC**

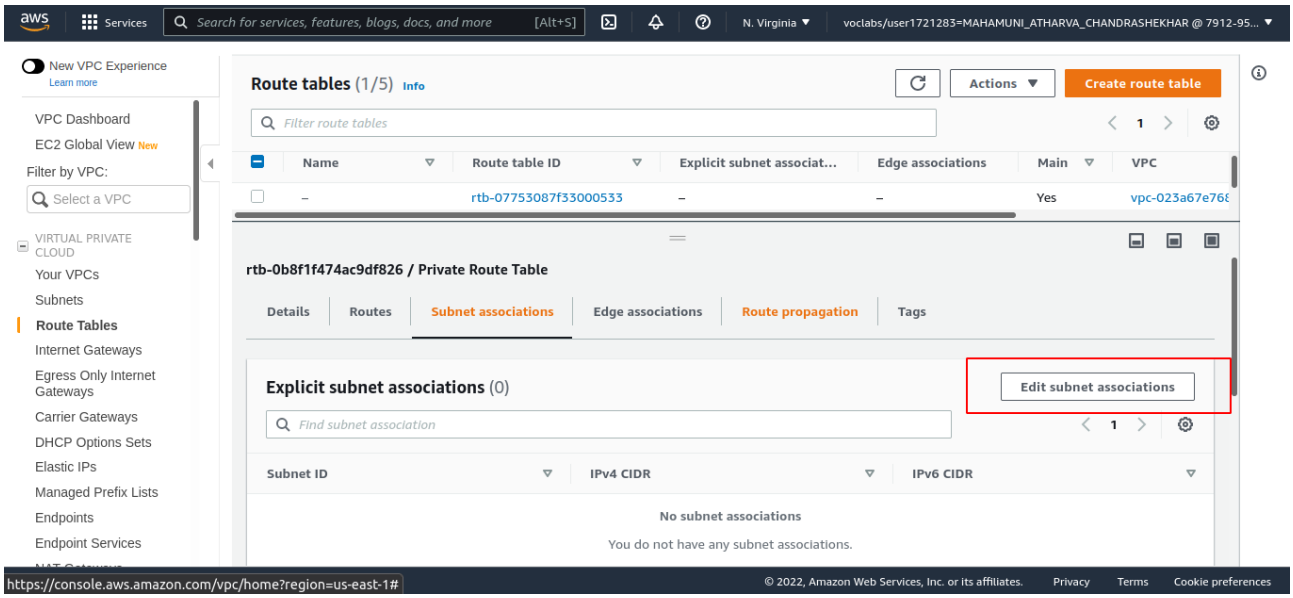


Step 12: In the Name column for this route table, choose the pencil then type `Private Route Table` and choose Save

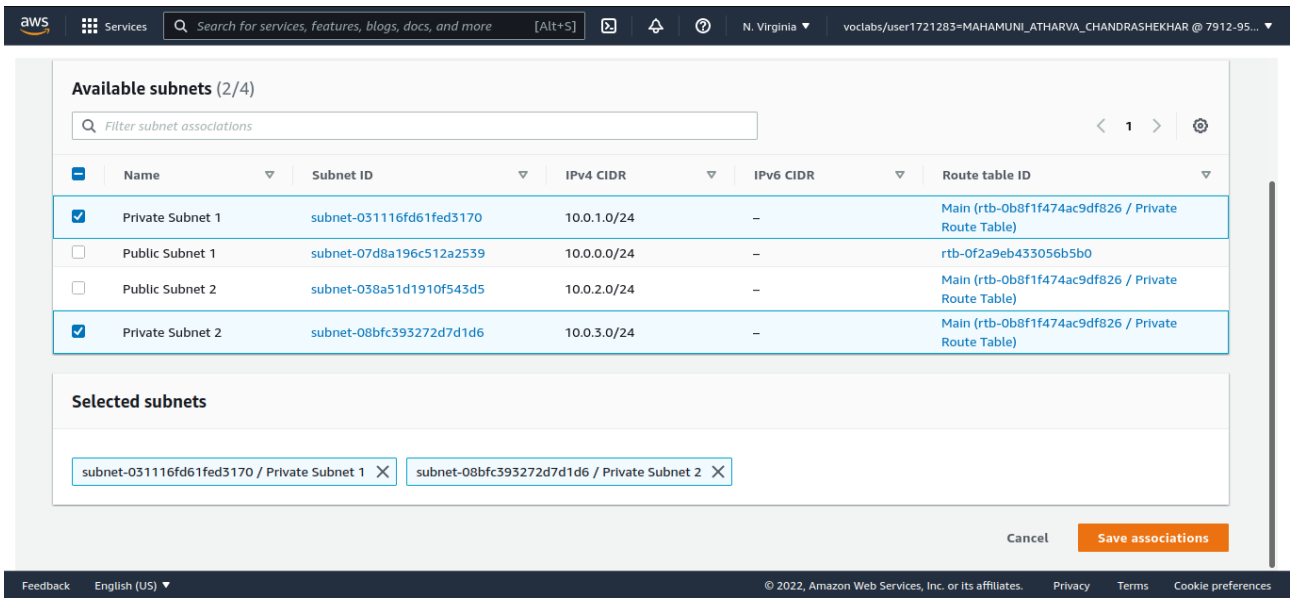


Step 13: In the lower pane, choose the **Subnet Associations** tab.

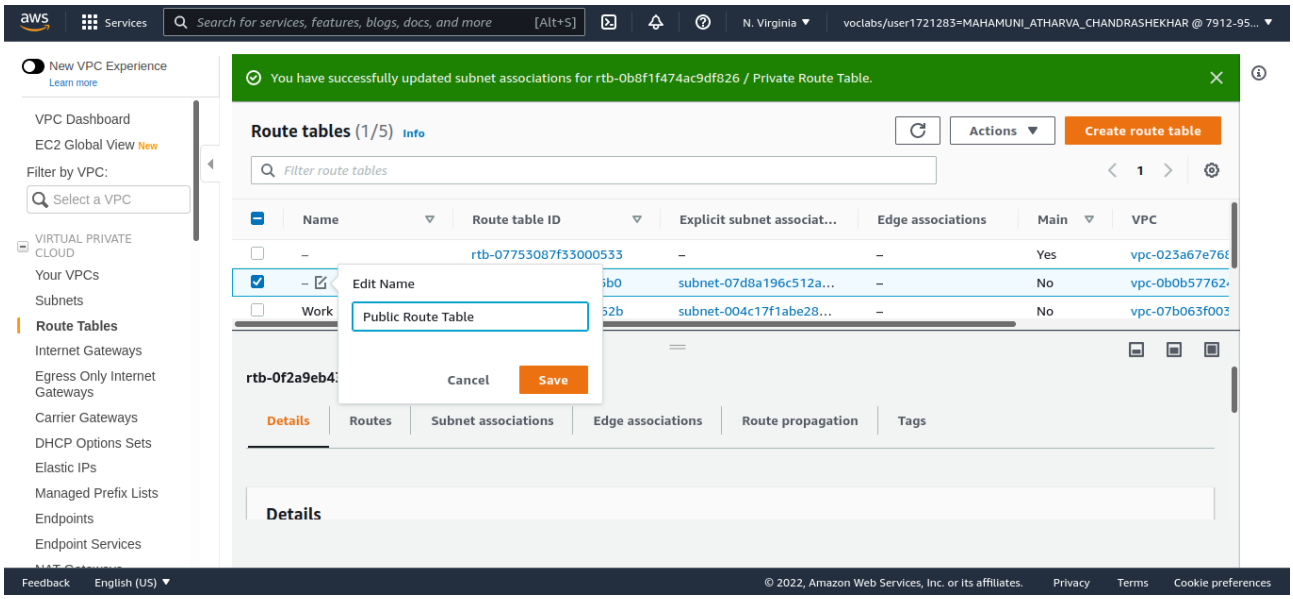
Choose Edit subnet associations



Step 14: Select both Private Subnet 1 and Private Subnet 2.
Choose Save associations

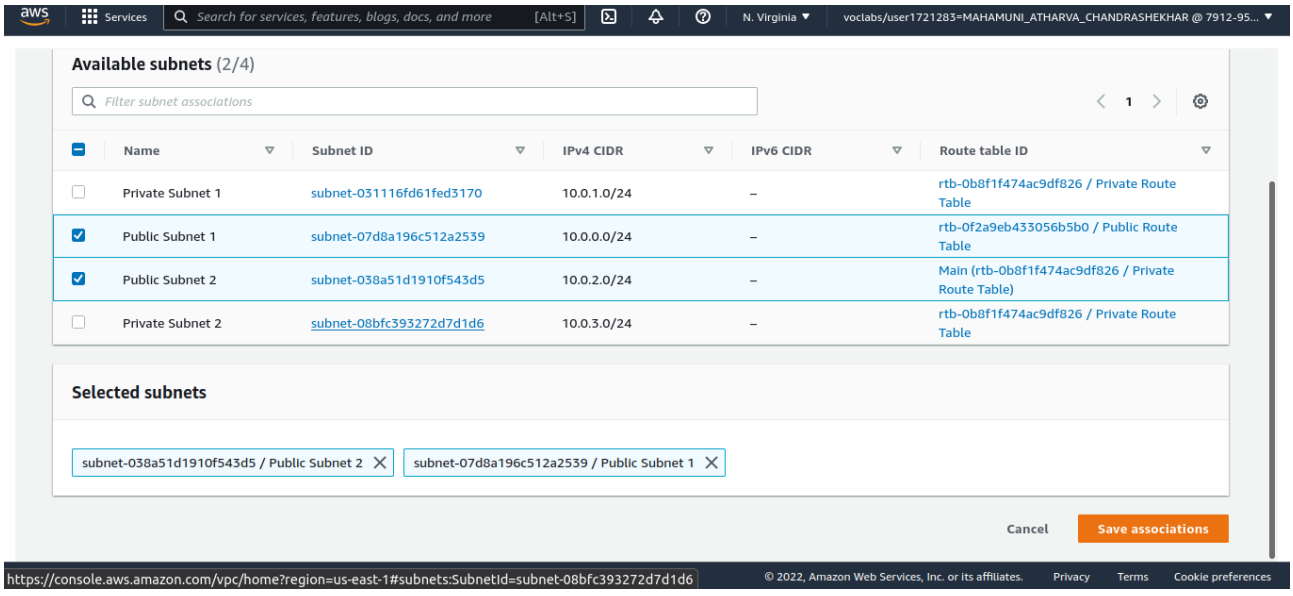


Step 15: Select the route table with **Main = No** and **VPC = Lab VPC** (and deselect any other subnets).
In the **Name** column for this route table, choose the pencil then type `Public Route Table`, and choose Save

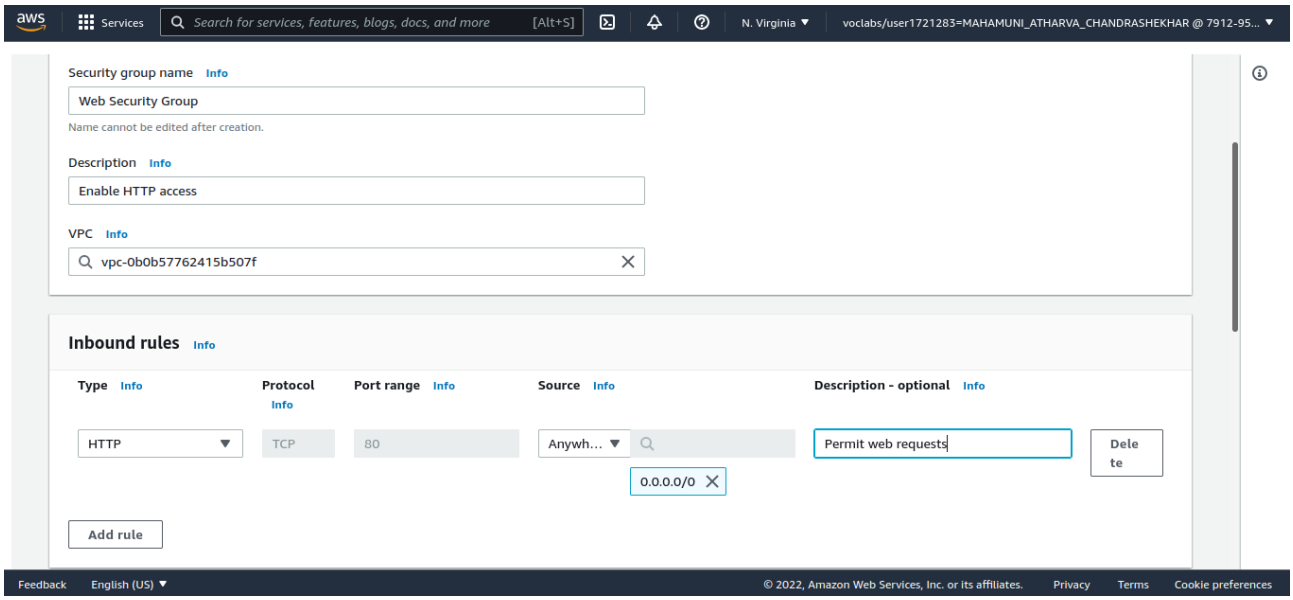


Step 16: Choose the **Subnet Associations** tab, Choose Edit subnet associations

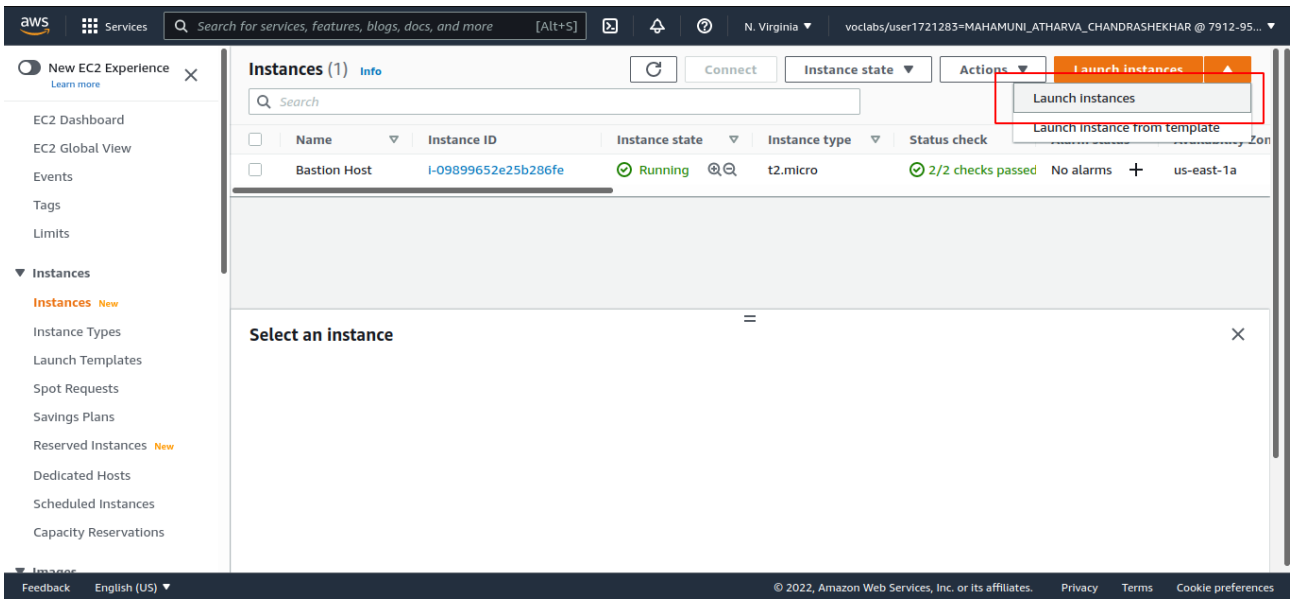
Select both **Public Subnet 1** and **Public Subnet 2,** Choose Save associations



Step 17: Create a VPC Security Group
In the left navigation pane, choose **Security Groups**, Choose Create security group and then configure:

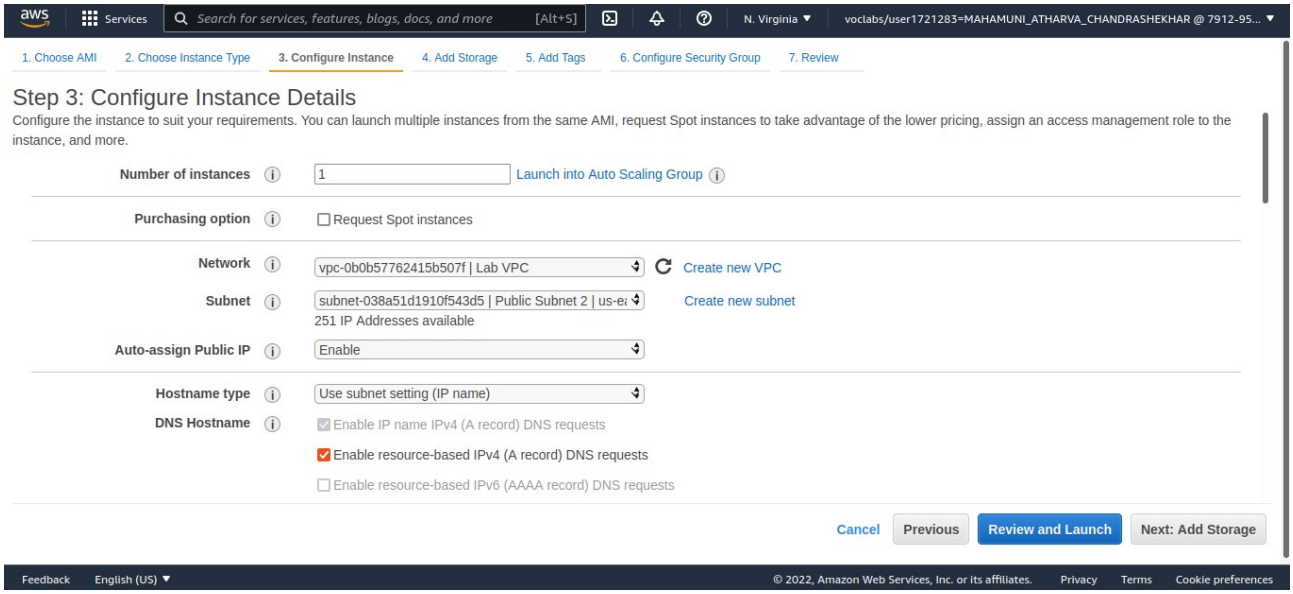


Step 18: Launch a Web Server Instance
On the Services menu, choose **EC2**. Choose **Launch Instance**, and then choose **Launch Instance**



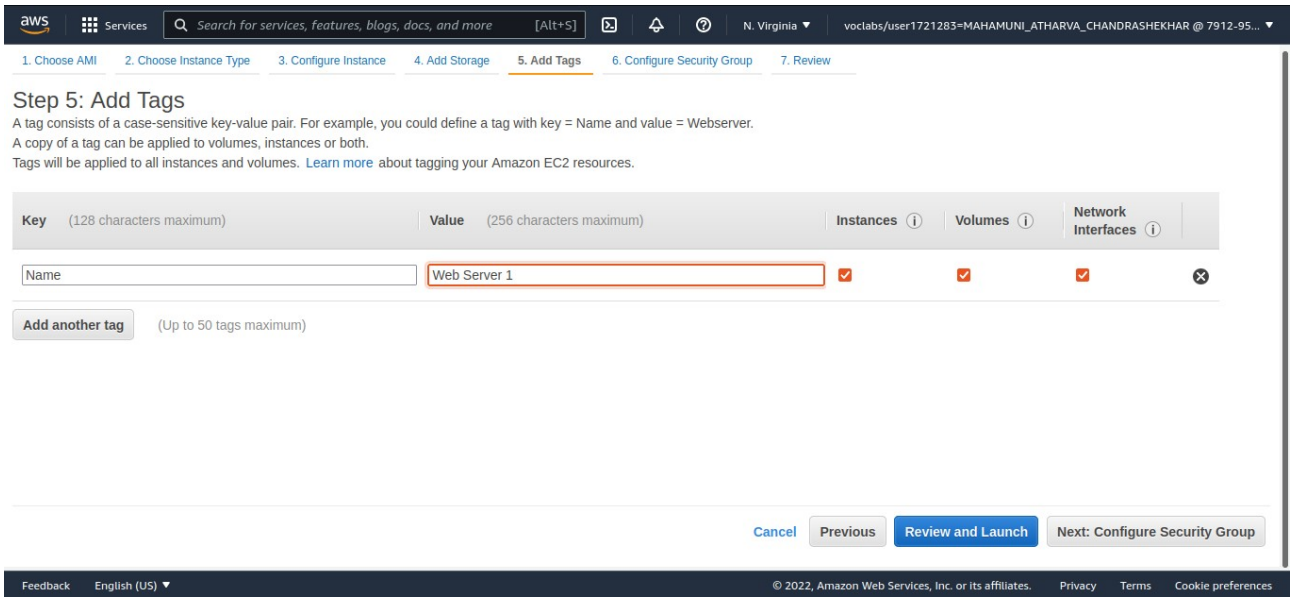
Step 19: In the row for **Amazon Linux 2** (at the top), choose Select
Select **t2.micro** (shown in the *Type* column).

Choose Next: Configure Instance Details

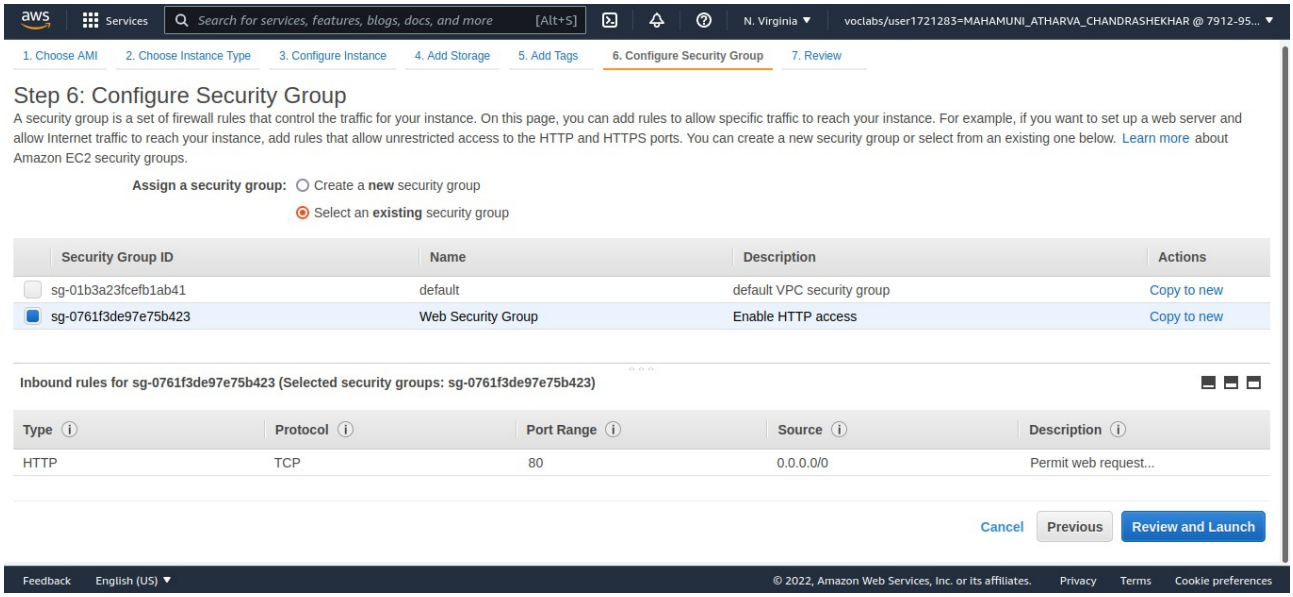


Step 20: Choose Add Tag then configure:

- **Key:** `Name`
- **Value:** `Web Server 1`

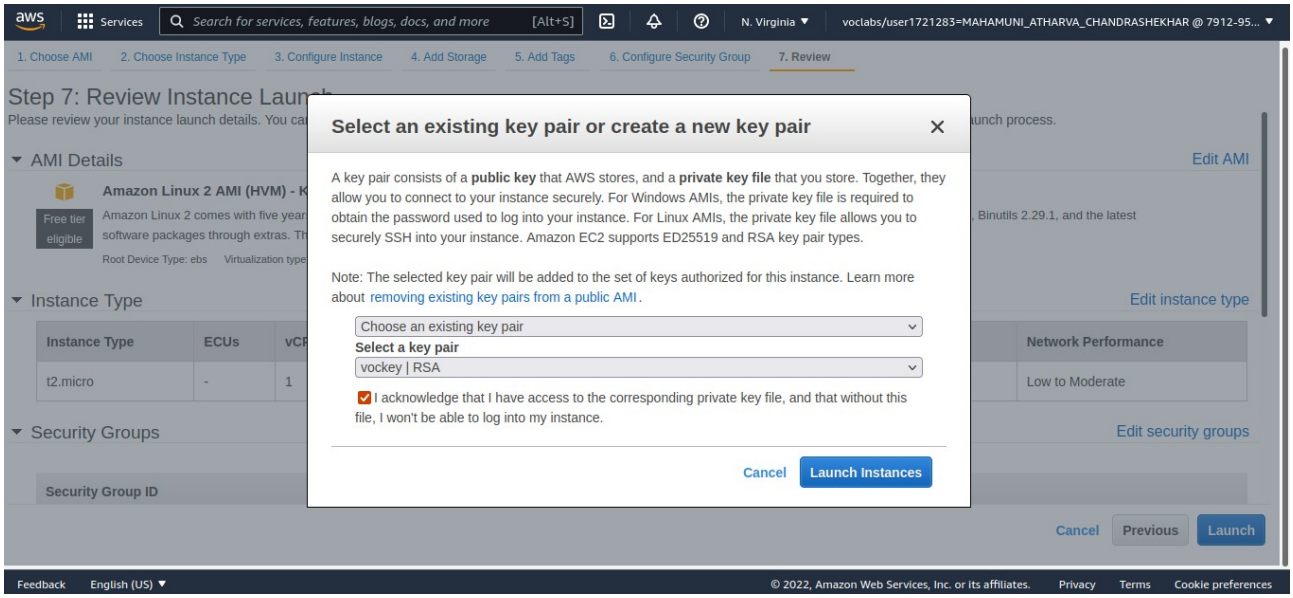


Step 21: Choose Next: Configure Security Group, Select **Select an existing security group** Select **Web Security Group,** Choose **Review and Launch**



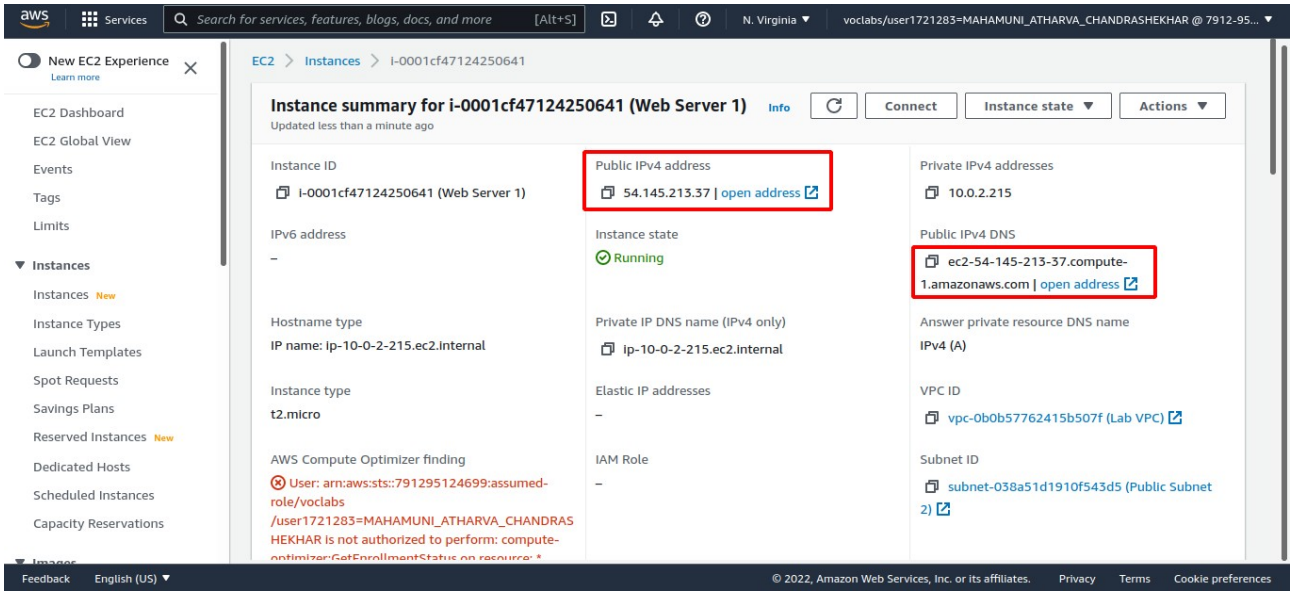
Step 22: Review the instance information and choose Launch
In the **Select an existing keypair** dialog, select **I acknowledge....**

Choose Launch Instances



Step 23: Wait until **Web Server 1** shows *2/2 checks passed* in the **Status Checks** column. Select **Web Server 1**.

Copy the **Public DNS (IPv4)** value shown in the **Description** tab at the bottom of the page.



Step 24: Open a new web browser tab, paste the **Public DNS** value and press Enter. You should see a web page displaying the AWS logo and instance meta-data values.