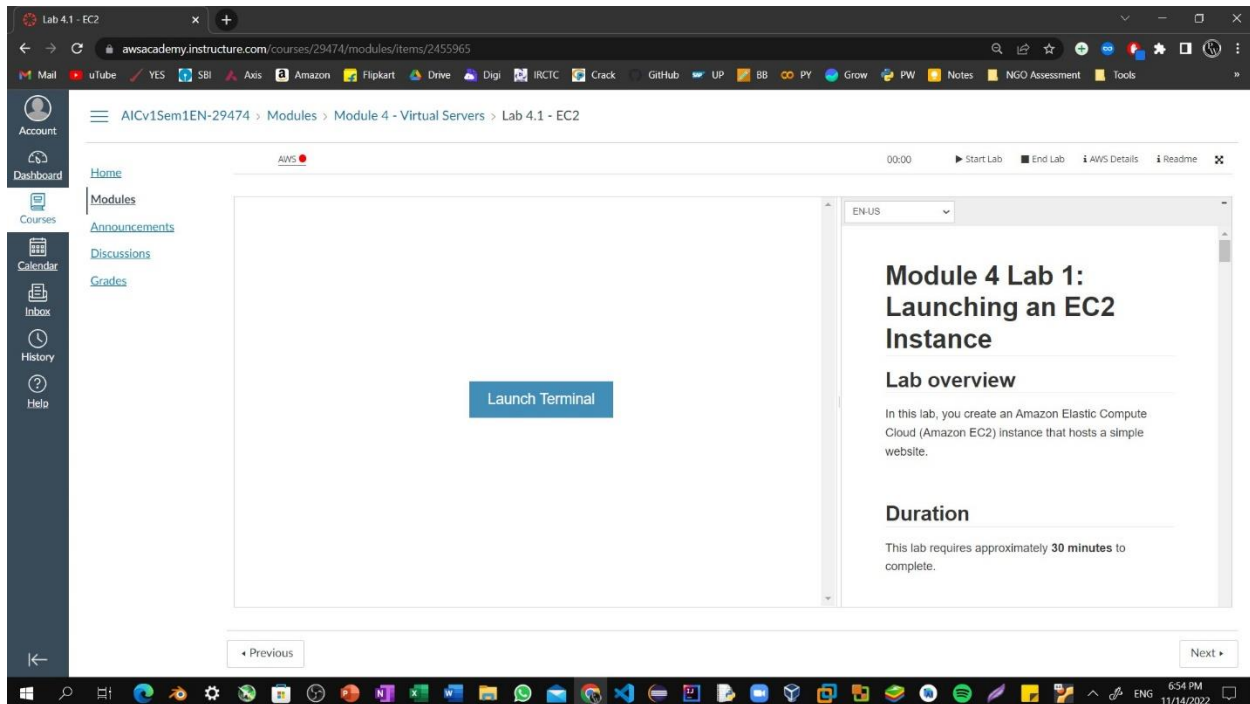
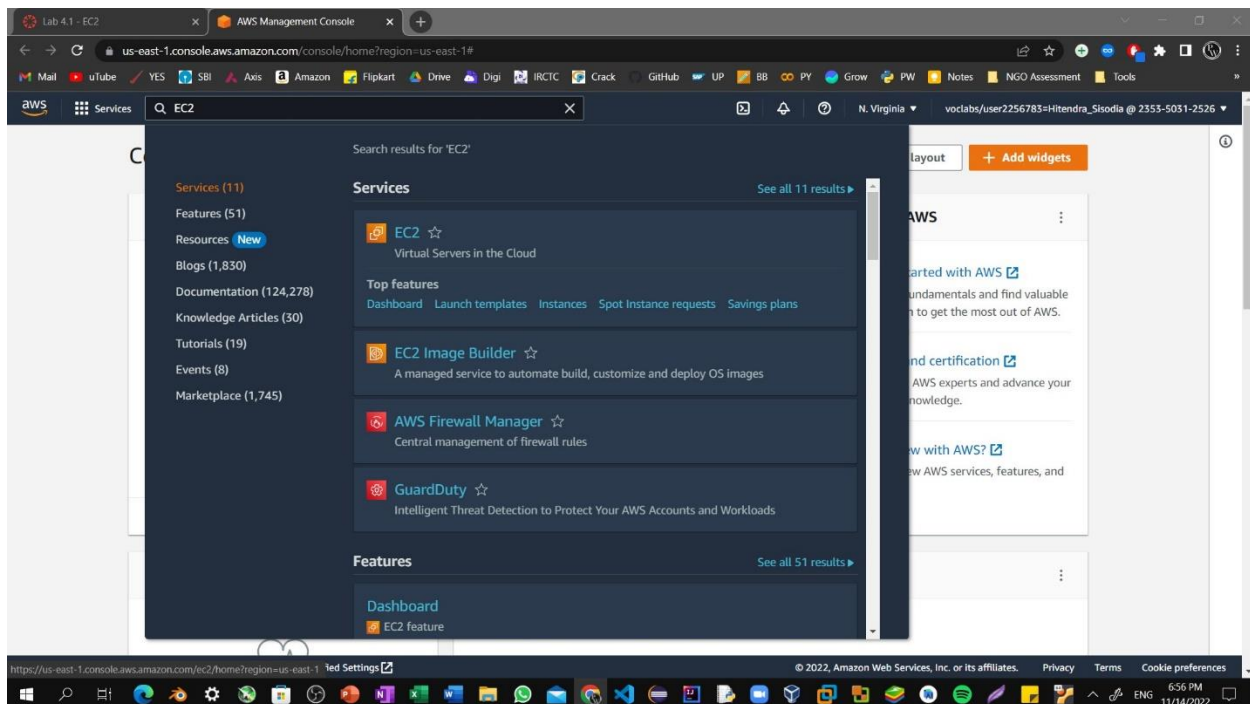


## Lab 11: Launching an EC2 Instance With EBS Storage

**Step1:** To start the lab session, choose **Start Lab** in the upper-right corner of the page.

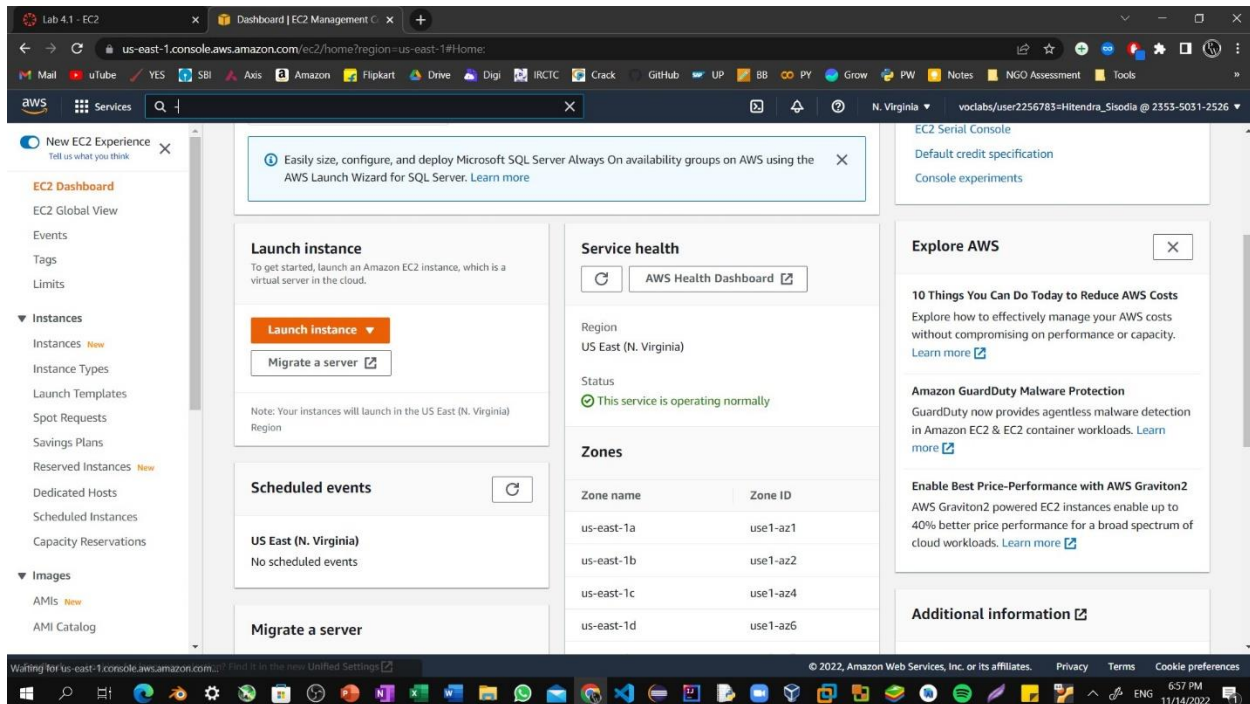


**Step2:** Choose the **Services** menu, locate the **Compute** services, and select **EC2**.

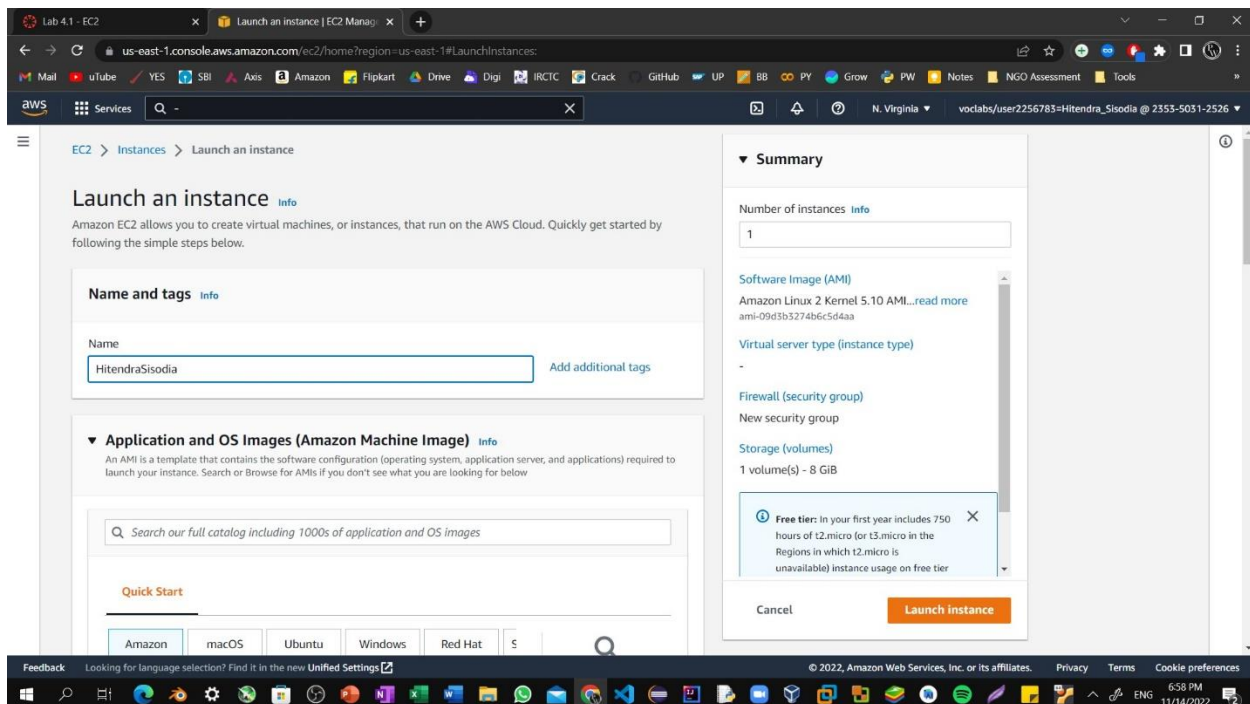


## Lab 11: Launching an EC2 Instance With EBS Storage

**Step3:** Choose the **Launch instance** button in the middle of the page, and then select **Launch instance** from the dropdown menu.



**Step4:** Name the instance: HitendraSisodia

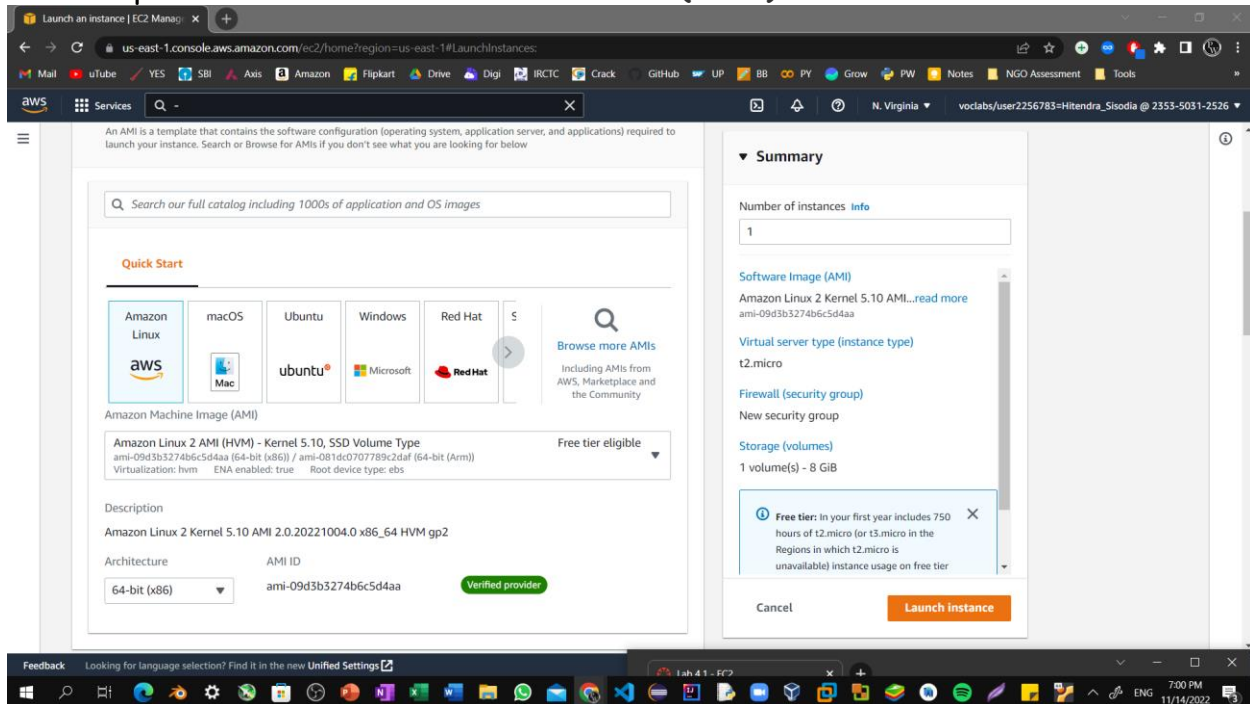


## Lab 11: Launching an EC2 Instance With EBS Storage

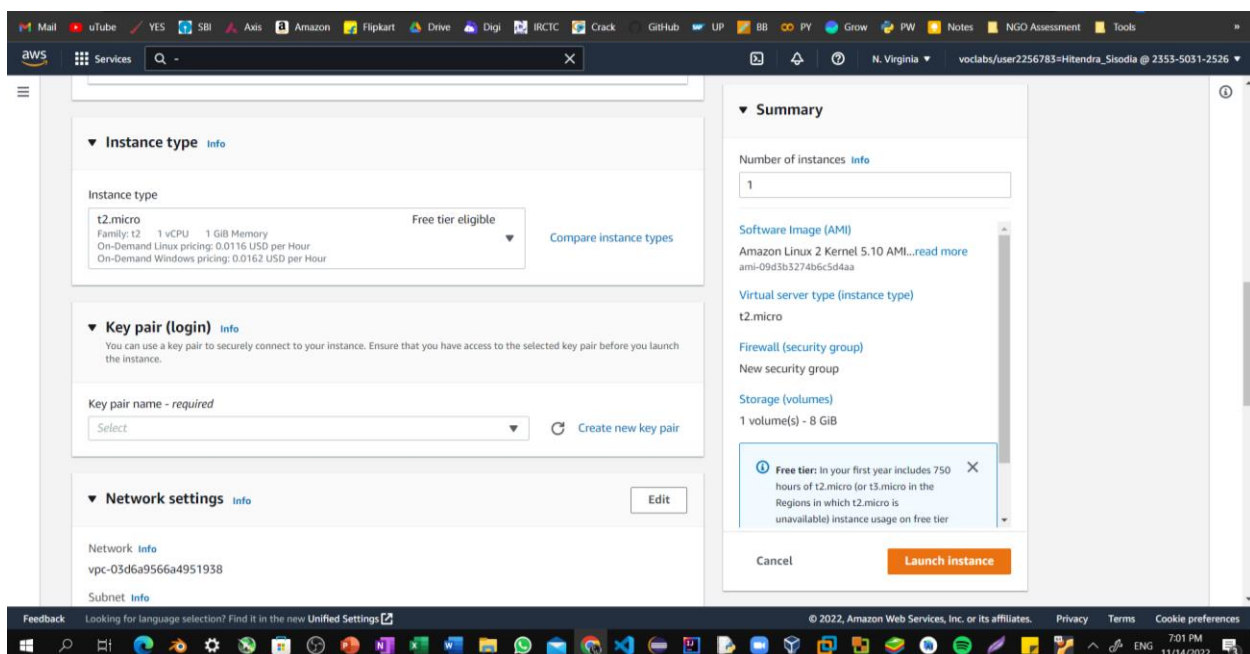
Step5: Choose an AMI from which to create the instance:

In the list of available *Quick Start* AMIs, keep the default **Amazon Linux AMI** selected.

Also keep the default **Amazon Linux 2 AMI (HVM)** selected.

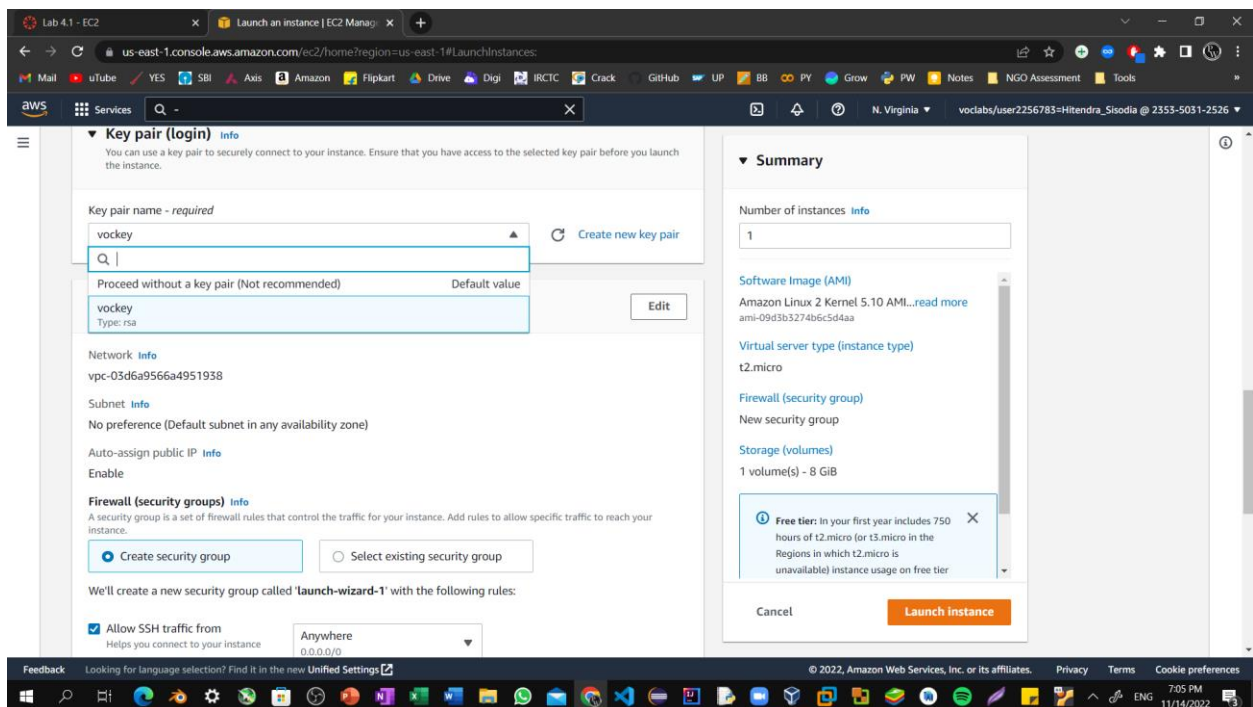


Step6: Specify an Instance type: In the *Instance type* panel, keep the default **t2.micro** selected.

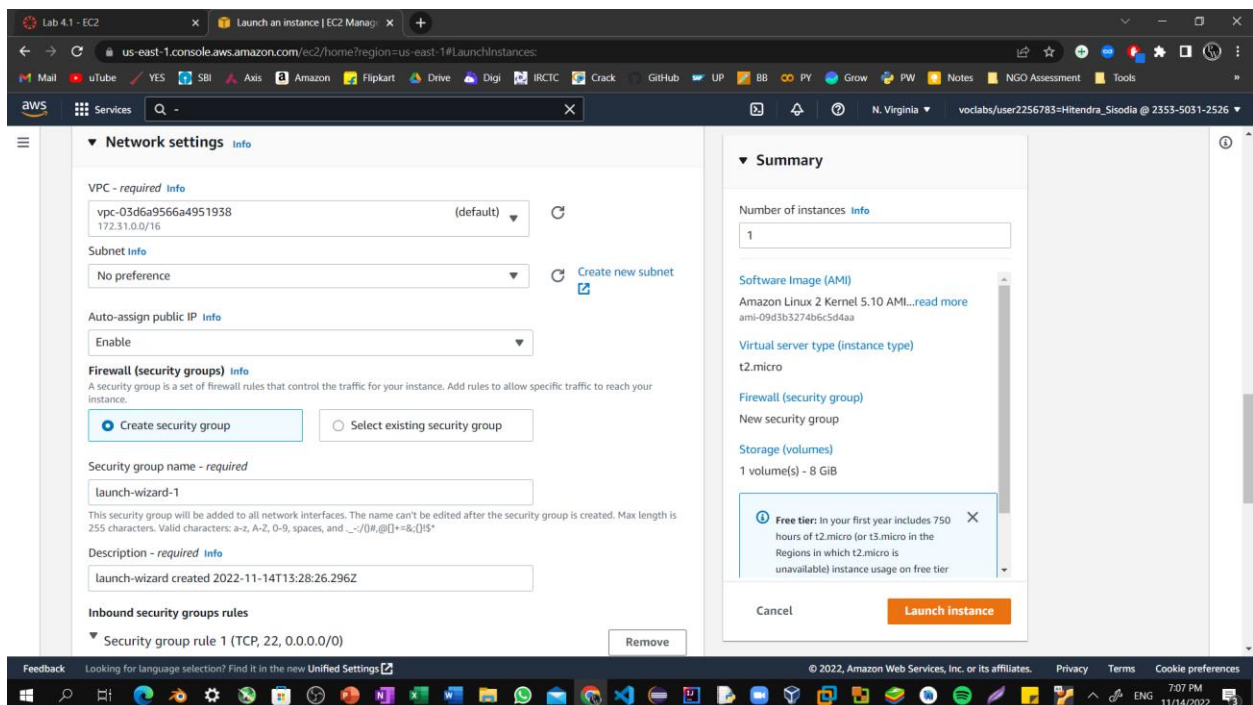


## Lab 11: Launching an EC2 Instance With EBS Storage

**Step7:** Select the key pair to associate with the instance. From the **Key pair name** menu, select **vockey**.



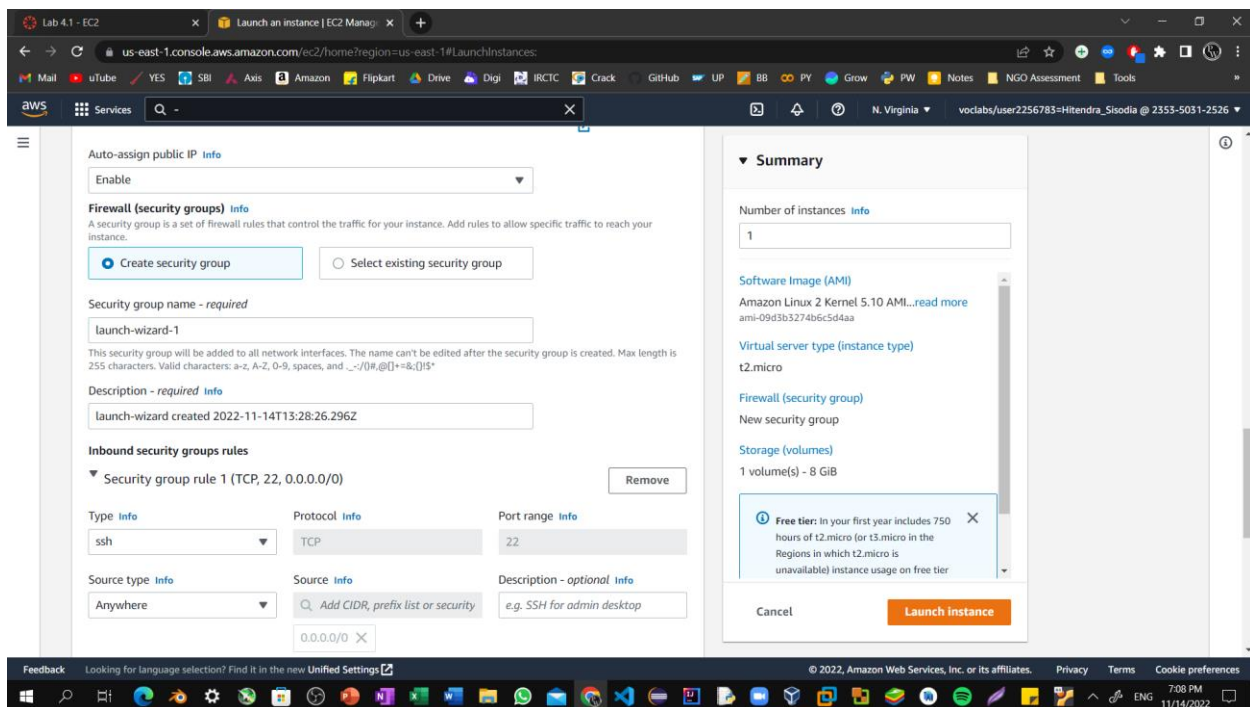
**Step8:** Next to Network settings, choose **Edit**. Keep the default VPC and subnet settings. Also keep the **Auto-assign public IP** setting set to **Enable**.





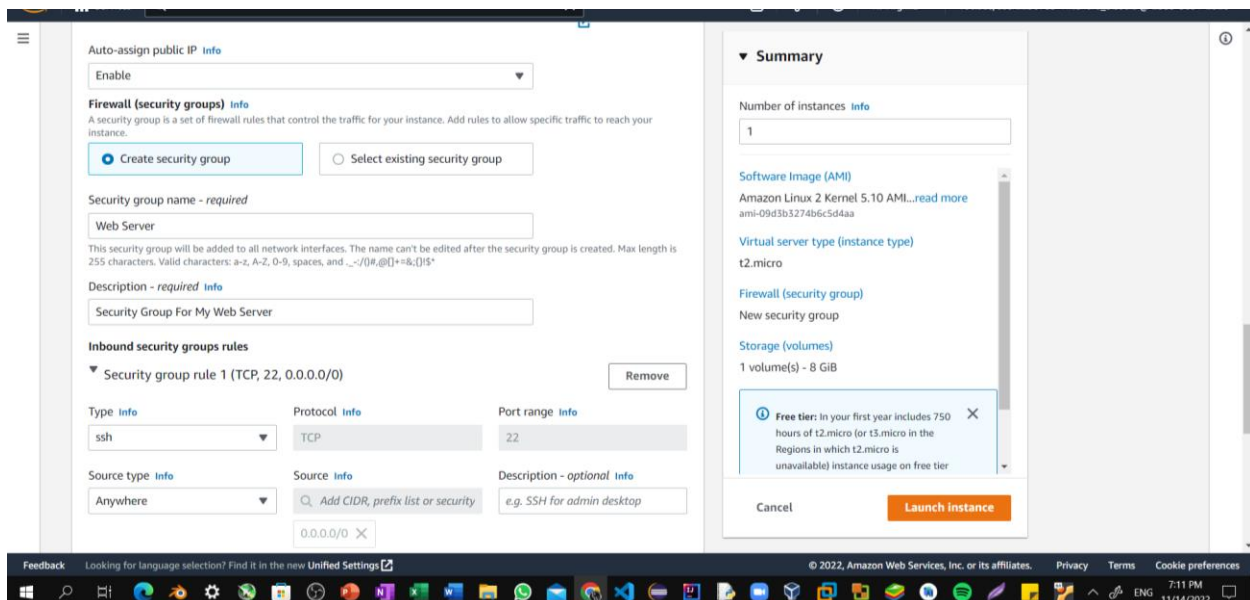
## Lab 11: Launching an EC2 Instance With EBS Storage

Step9: Under Firewall (security groups), keep the default **Create security group** option chosen.



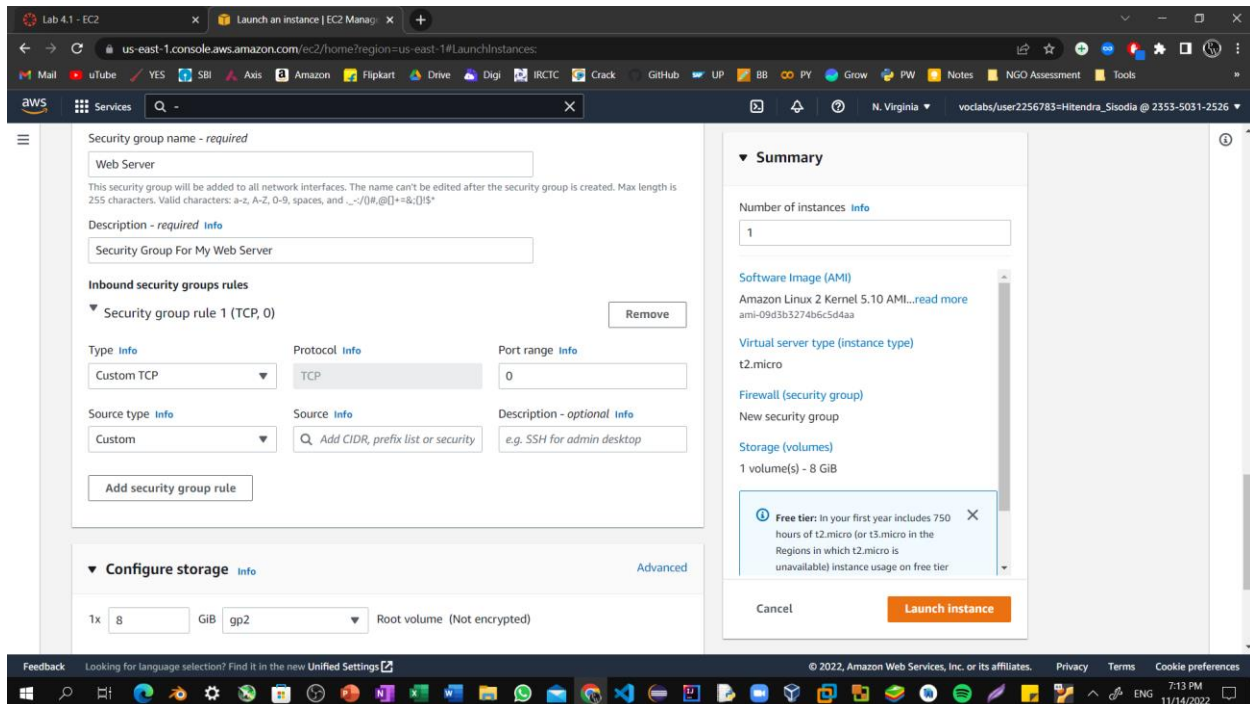
Step10: Configure a new security group:

- Keep the default selection **Create a new security group**.
- **Security group name:** Clear the text and enter **Web Server**
- **Description:** Clear the text and enter **Security group for my web server**

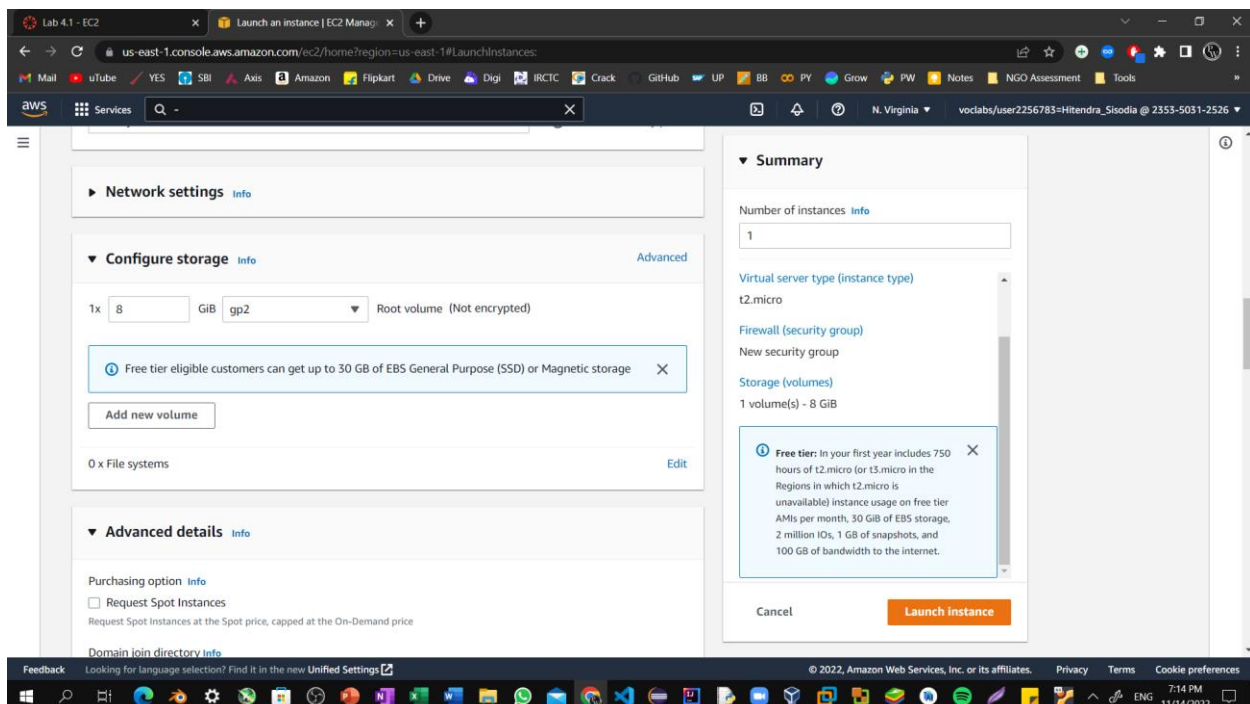


## Lab 11: Launching an EC2 Instance With EBS Storage

Step11: Choose **Remove** to remove the default SSH inbound rule.



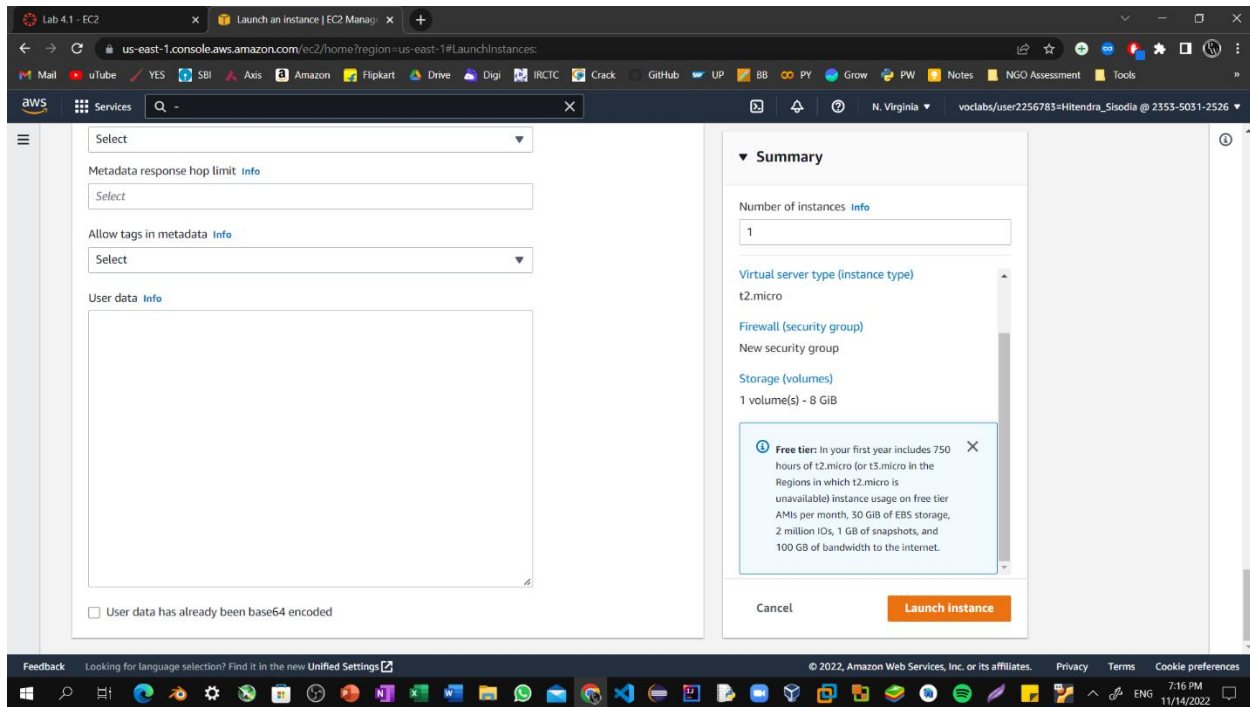
Step12: In the *Configure storage* section, keep the default settings. You will launch the Amazon EC2 instance using a default Elastic Block Store (EBS) disk volume.



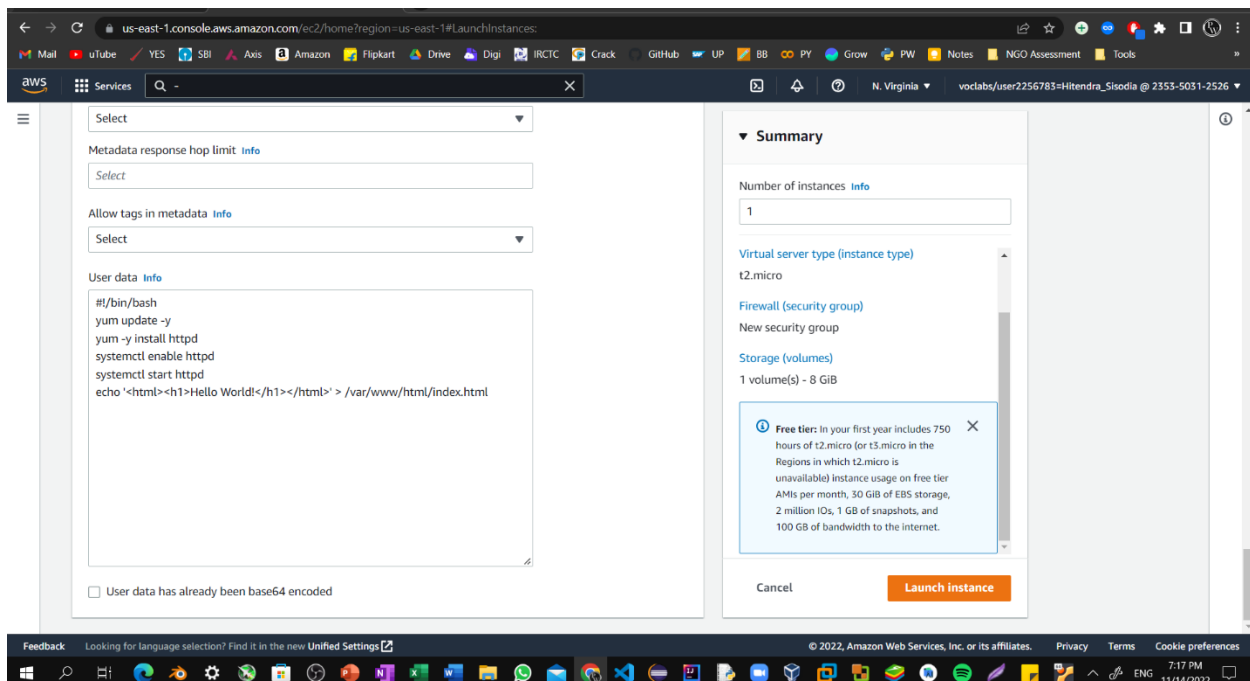
## Lab 11: Launching an EC2 Instance With EBS Storage

Step13: Configure a script to run on the instance when it launches:

- Expand the **Advanced details** panel.

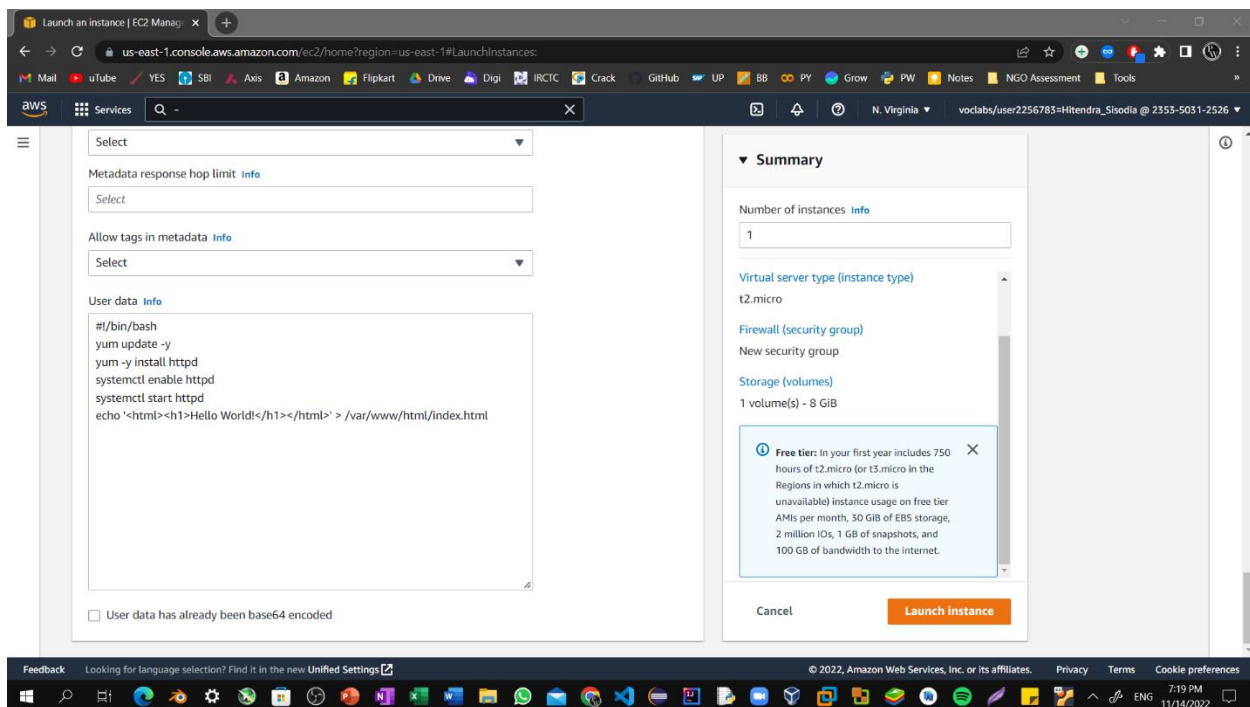


Step14: Scroll to the bottom of the page and then copy and paste the code shown below into the **User data** box.

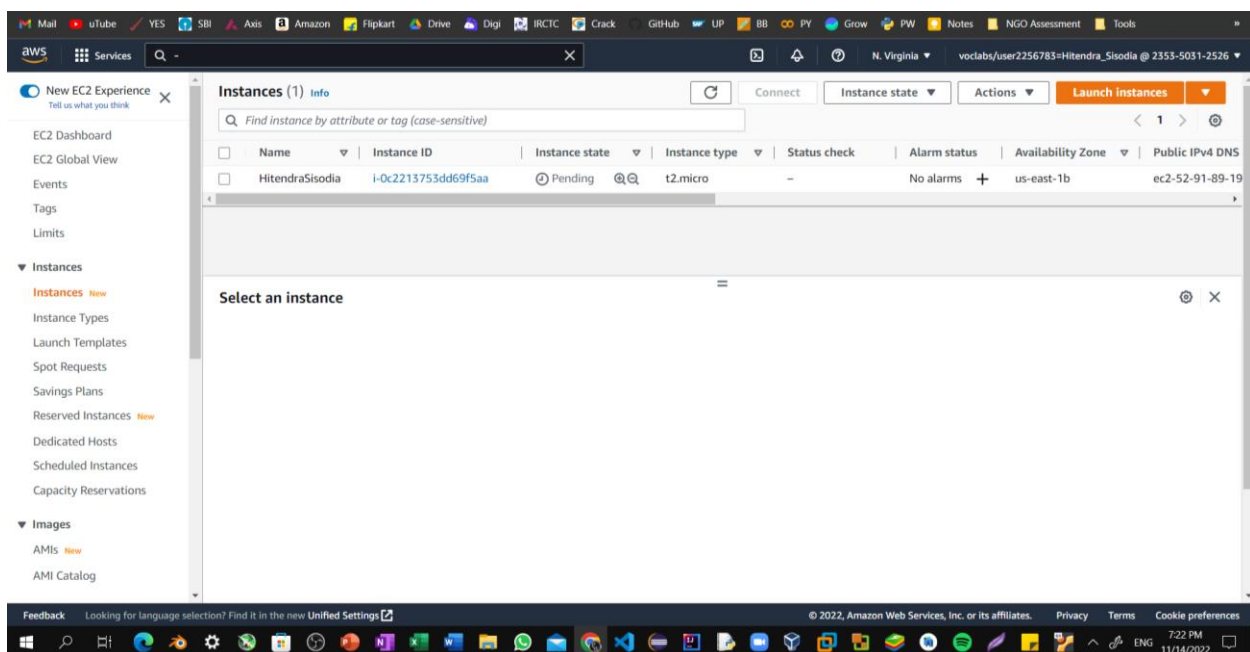


## Lab 11: Launching an EC2 Instance With EBS Storage

Step15: At the bottom of the **Summary** panel on the right side of the screen choose Launch Instances. You will see a Success message.



Step16: The instance will first appear in the *Pending* state, which means it is being launched. The state will then change to *Running*, which indicates that the instance has started booting. It takes a few minutes for the instance to boot.



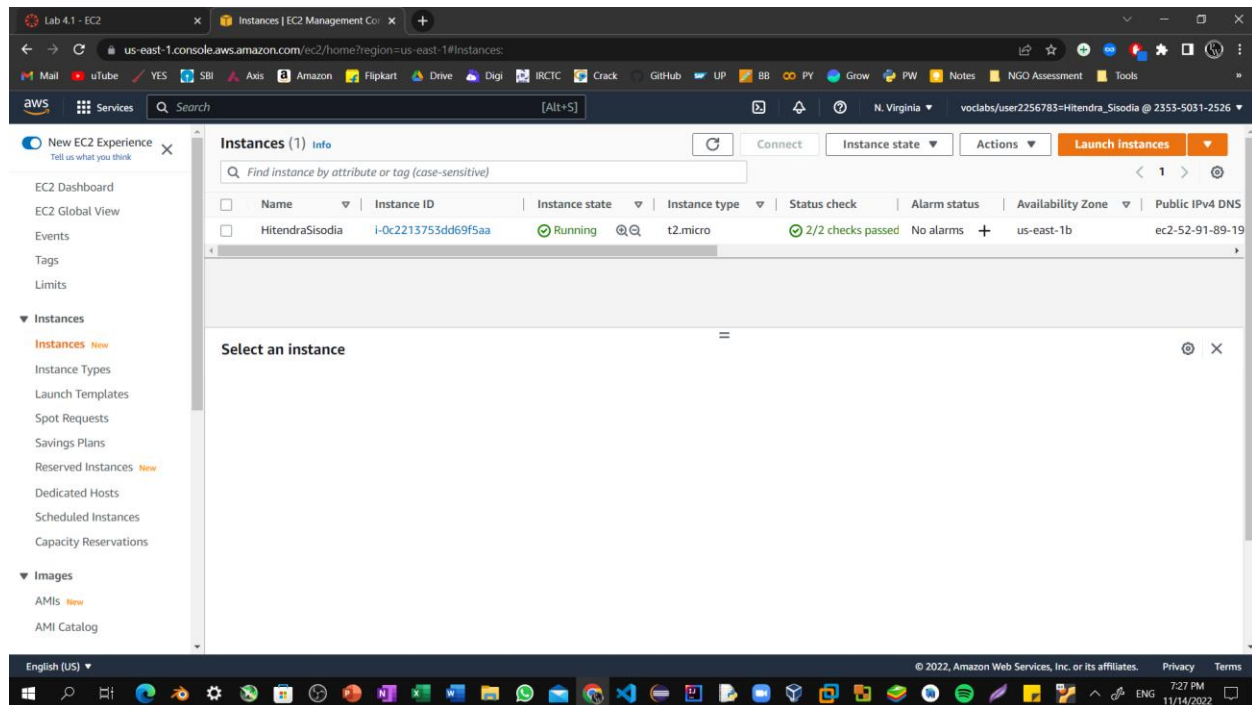


## Lab 11: Launching an EC2 Instance With EBS Storage

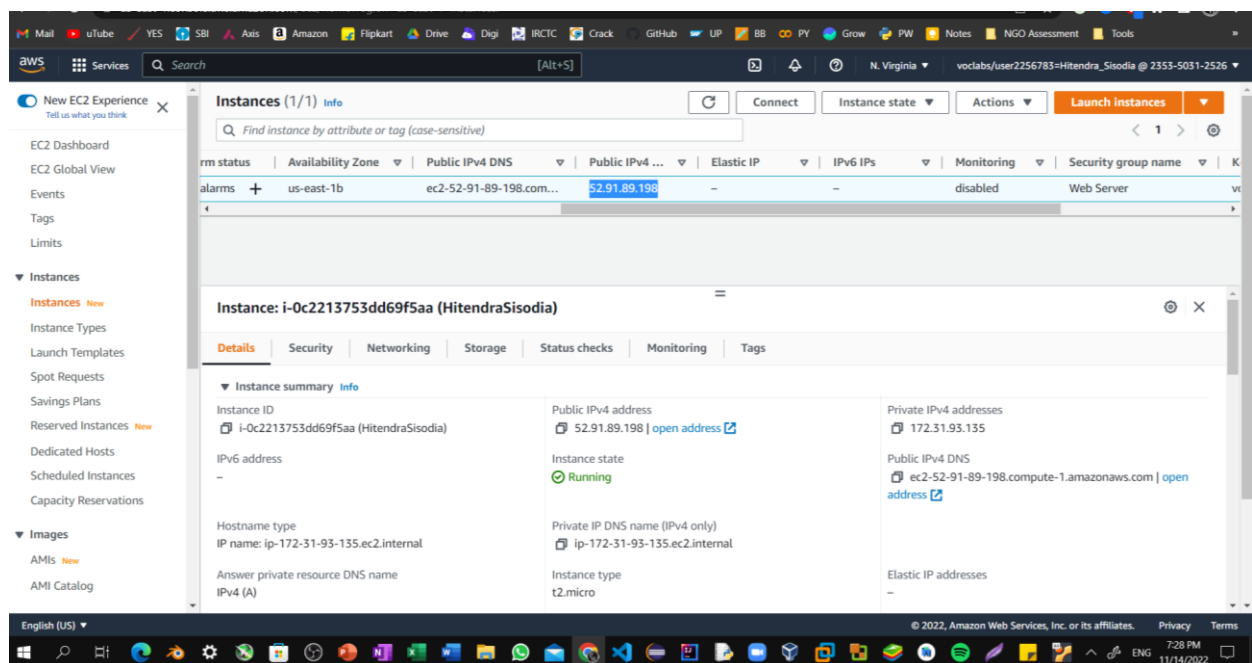
Step17: Before you continue, wait for your instance to display the following:

**Instance state:** *Running*

**Status check:** *2/2 checks passed*



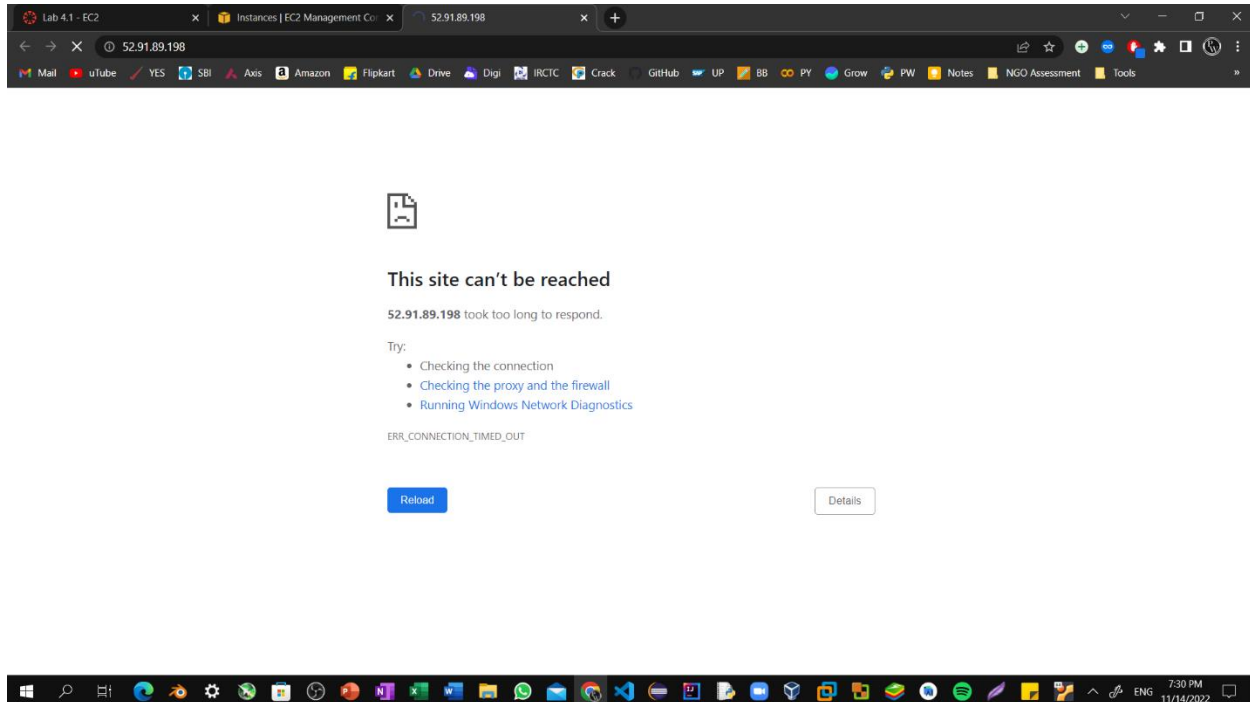
Step18: From the **Details** tab, copy the **Public IPv4** address value of your instance to your clipboard.



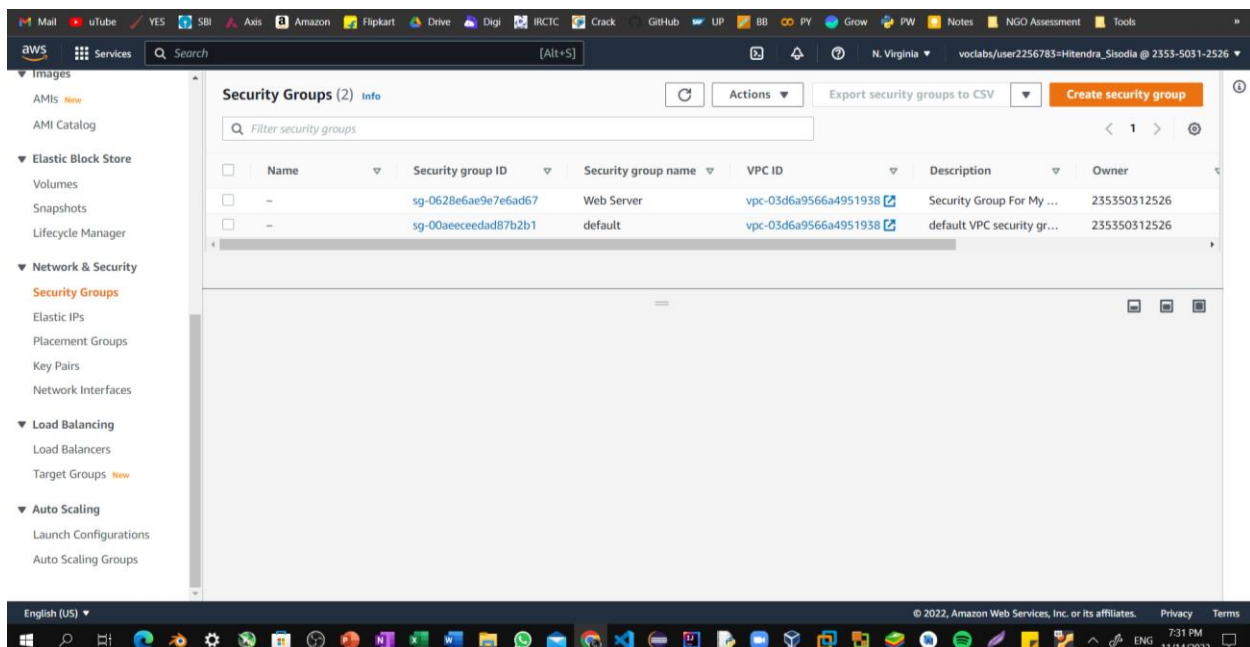
## Lab 11: Launching an EC2 Instance With EBS Storage

**Step19:** Open a new tab in your web browser, paste the public IP address you just copied, and press **Enter**.

The webpage does not load. You must update the security group to be able to access the page.

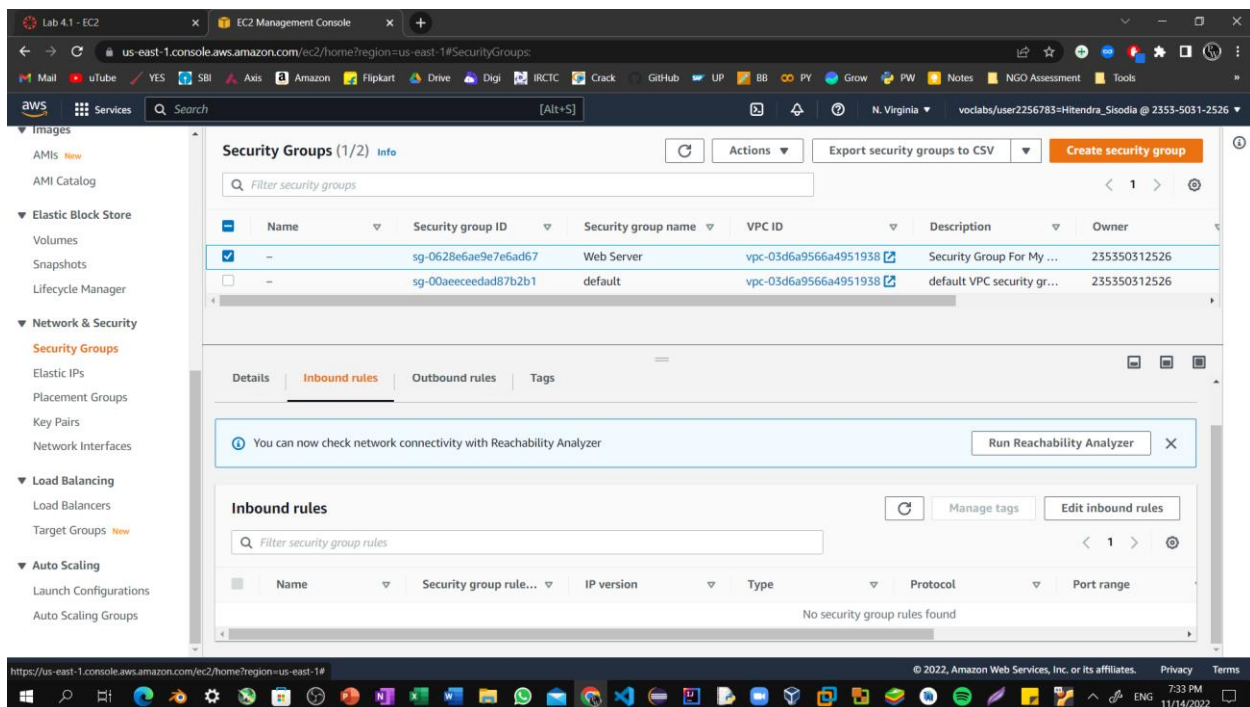


**Step20:** Return to the **EC2 Management Console** browser tab. In the left navigation pane, under **Network & Security**, choose **Security Groups**.

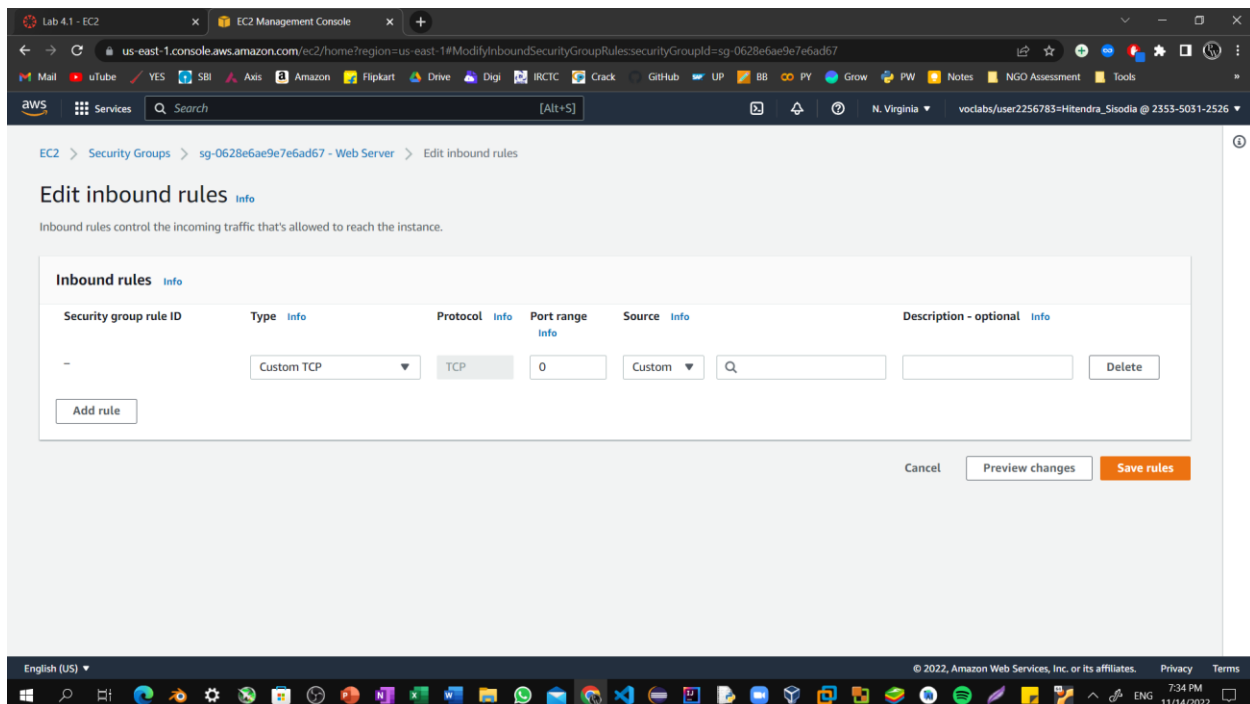


## Lab 11: Launching an EC2 Instance With EBS Storage

Step21: Select the **Web Server** security group, which you created when launching your EC2 instance. In the lower pane, choose the **Inbound rules** tab.



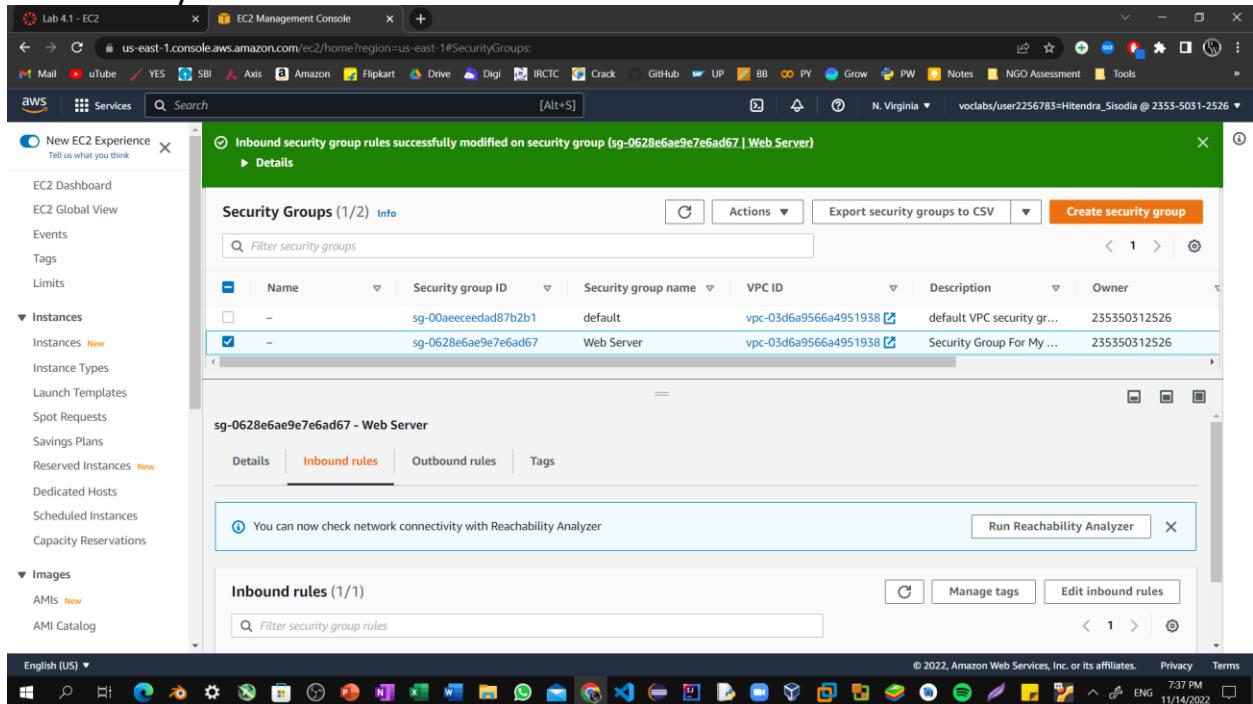
Step22: Choose **Edit inbound rules**, and then choose **Add rule**.



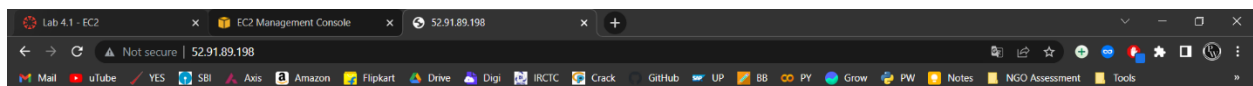
Step23: Configure the following:

**Type:** HTTP

**Source:** Anywhere-IPv4 Choose **Save** rules

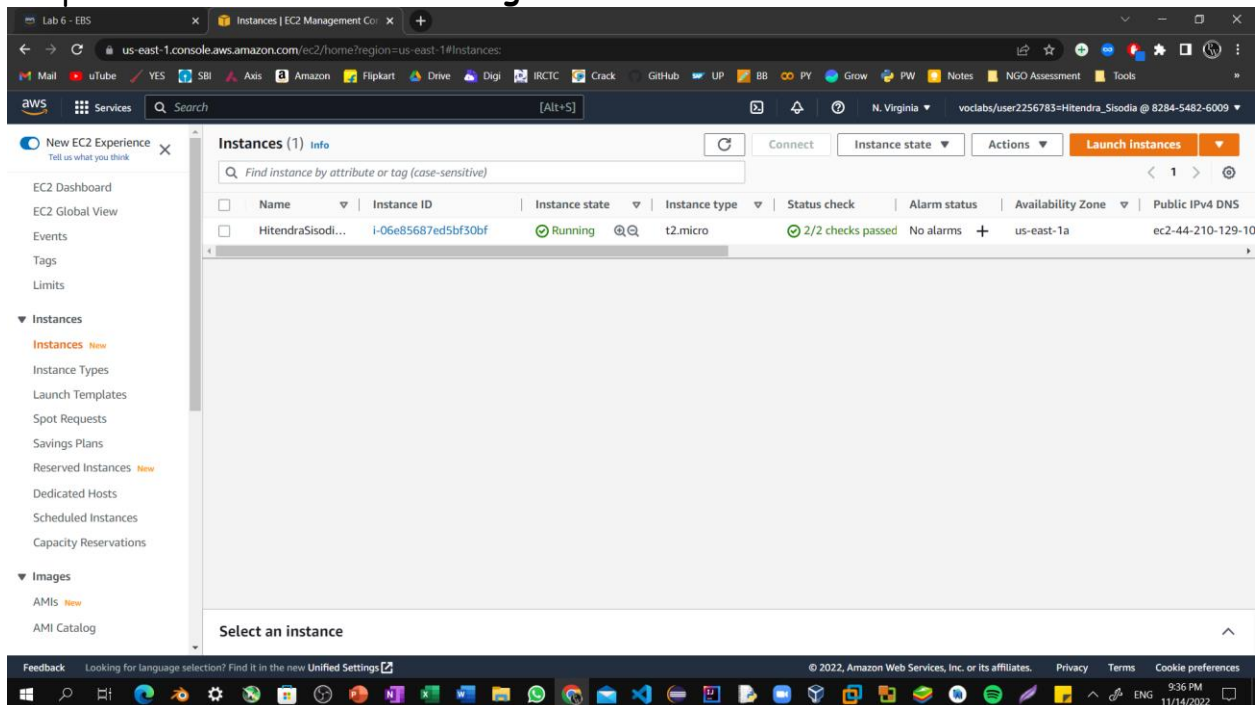


Step24: Return to the tab that you used to try to connect to the web server. The page should display the message *Hitendra Sisodia*.

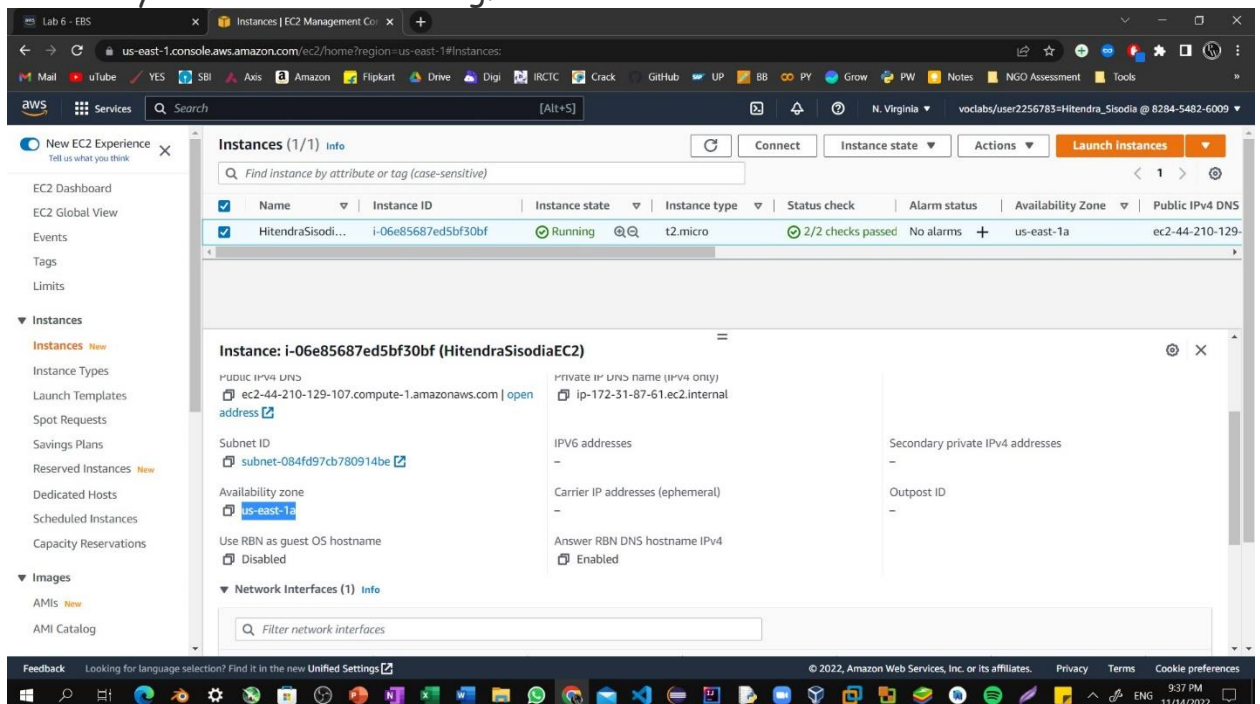




### Step25: Return to the **EC2 Management Console** browser tab.

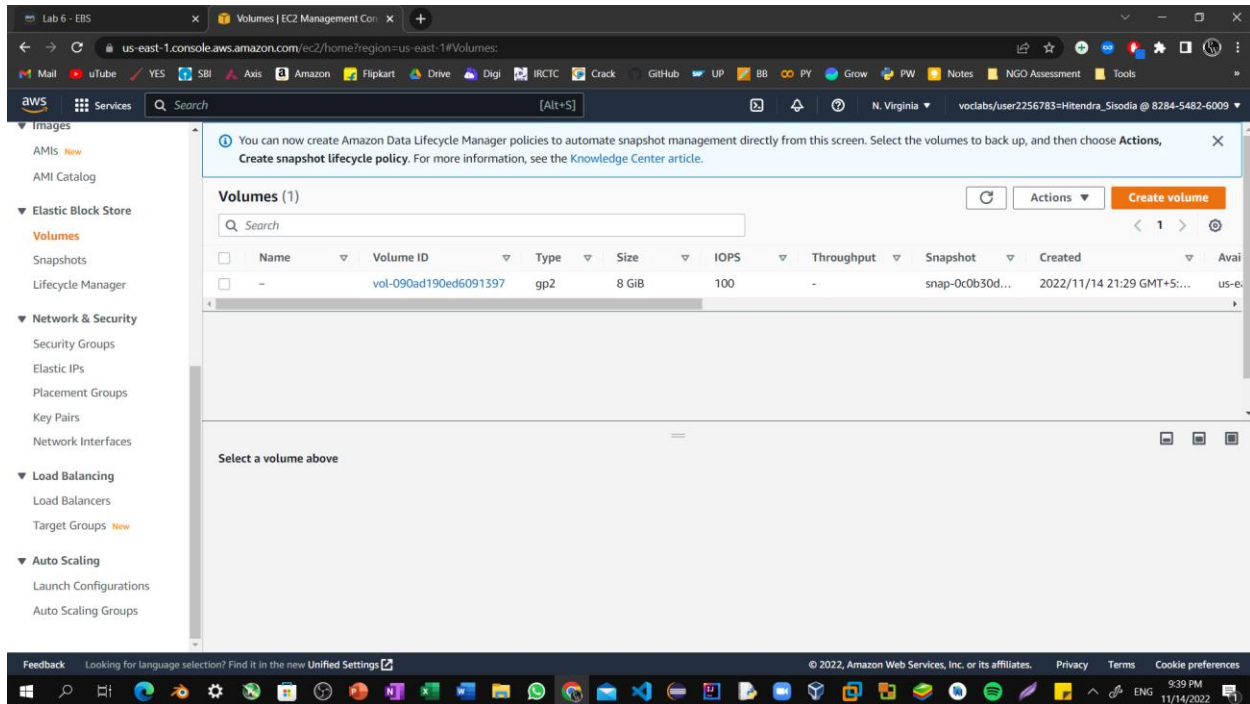


### Step26: In the left navigation pane, under **Instances**, choose **Instances**. Select the **Web Server** instance, and in the **Networking** tab below, note the **Availability Zone** in which your instance is running.

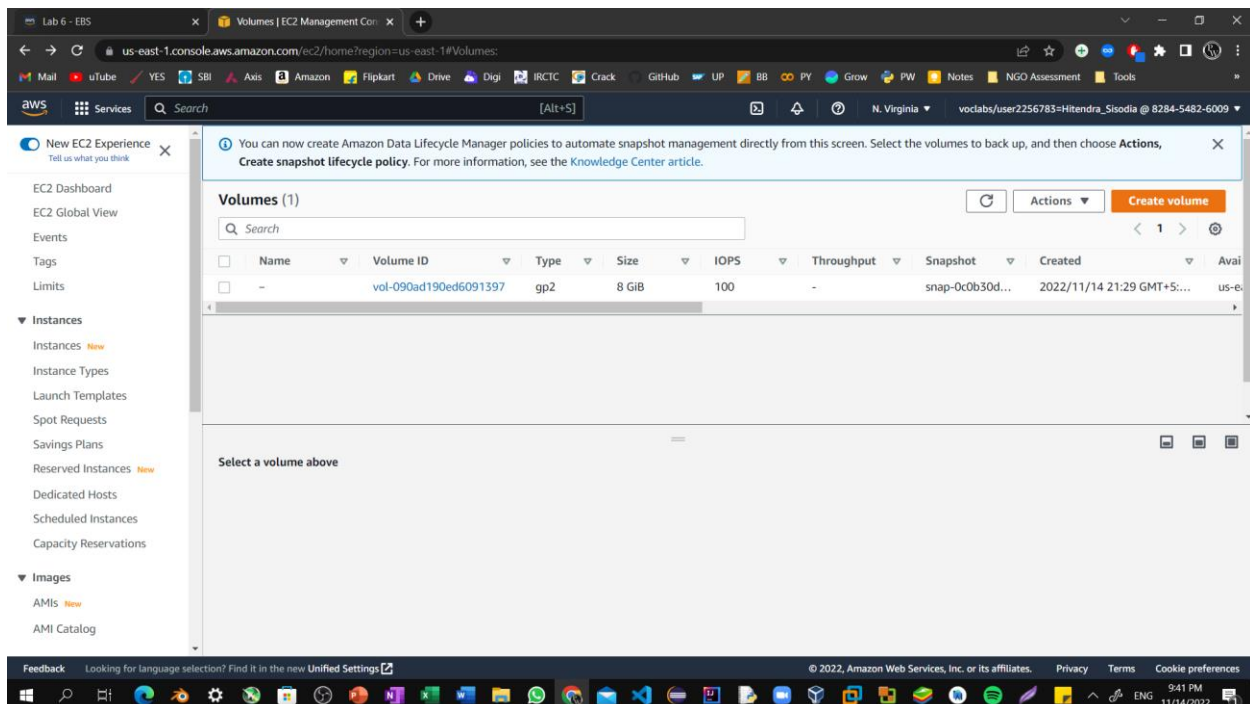


## Lab 11: Launching an EC2 Instance With EBS Storage

Step27: In the left navigation pane, under **Elastic Block Store**, select **Volumes**.

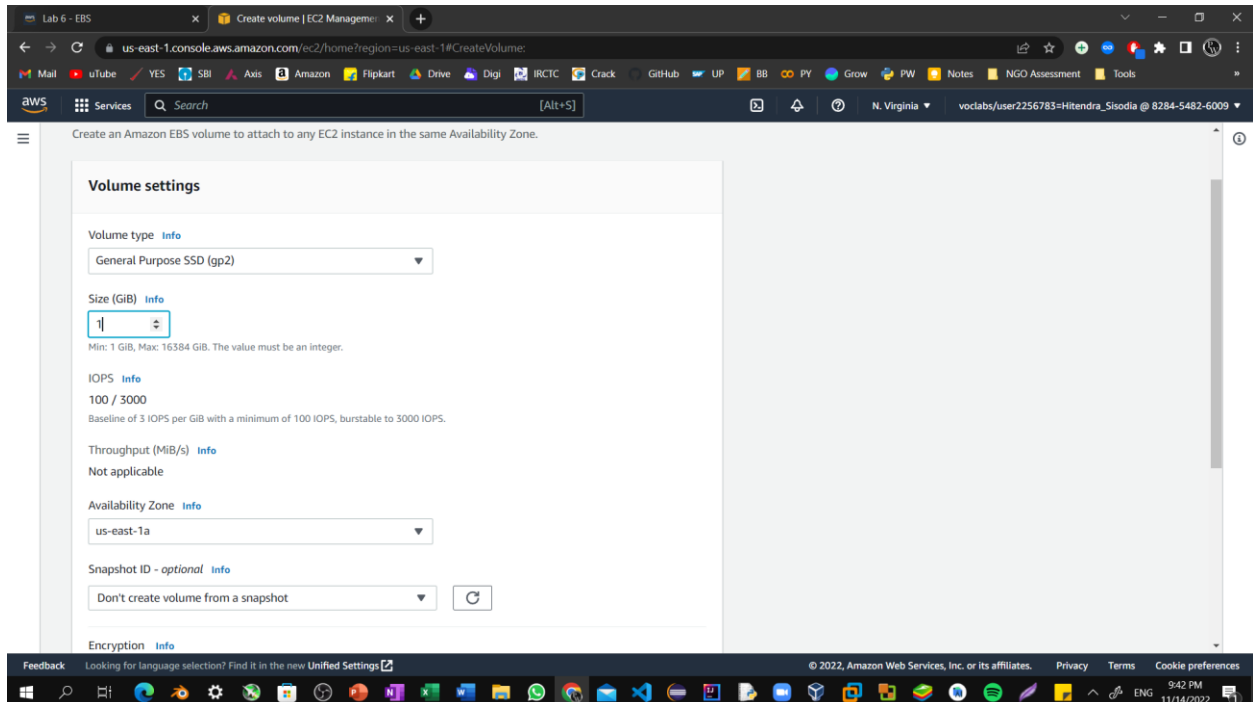


Step28: Select **Create volume**.

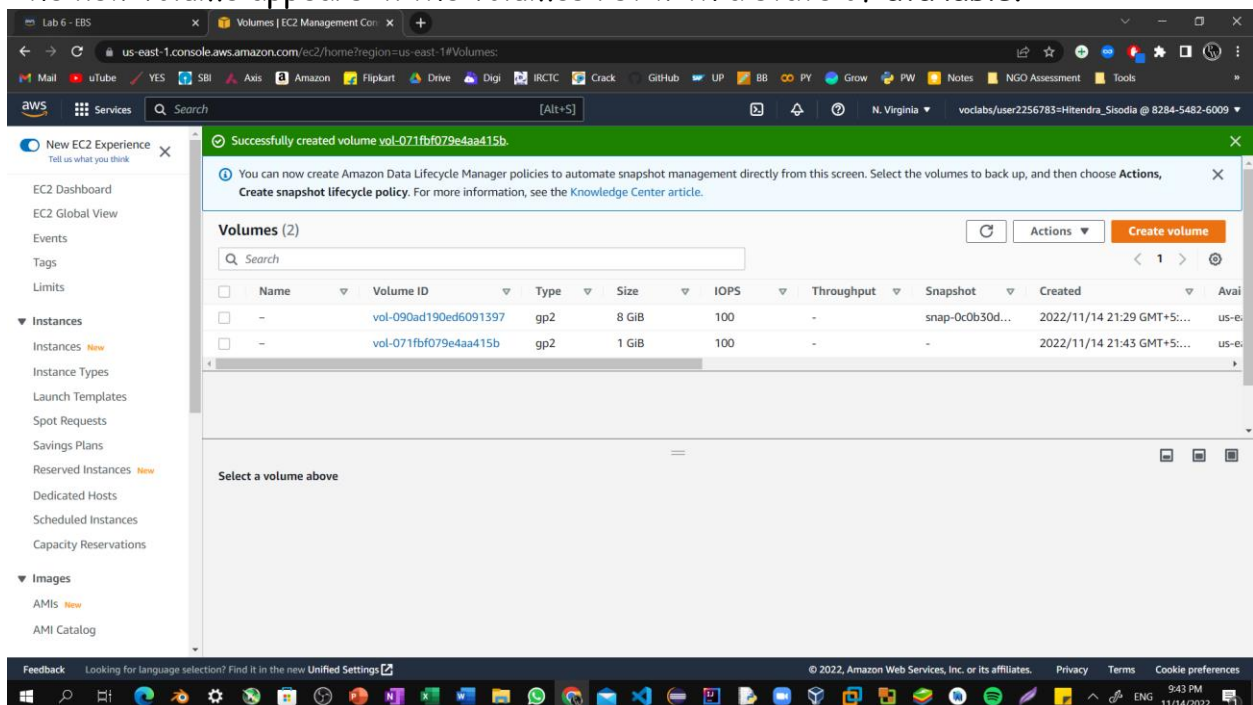


## Lab 11: Launching an EC2 Instance With EBS Storage

Step29: For **Size**, enter **1** to create a volume with 1 GiB. For **Availability Zone**, select the same Availability Zone that your EC2 instance is running in.

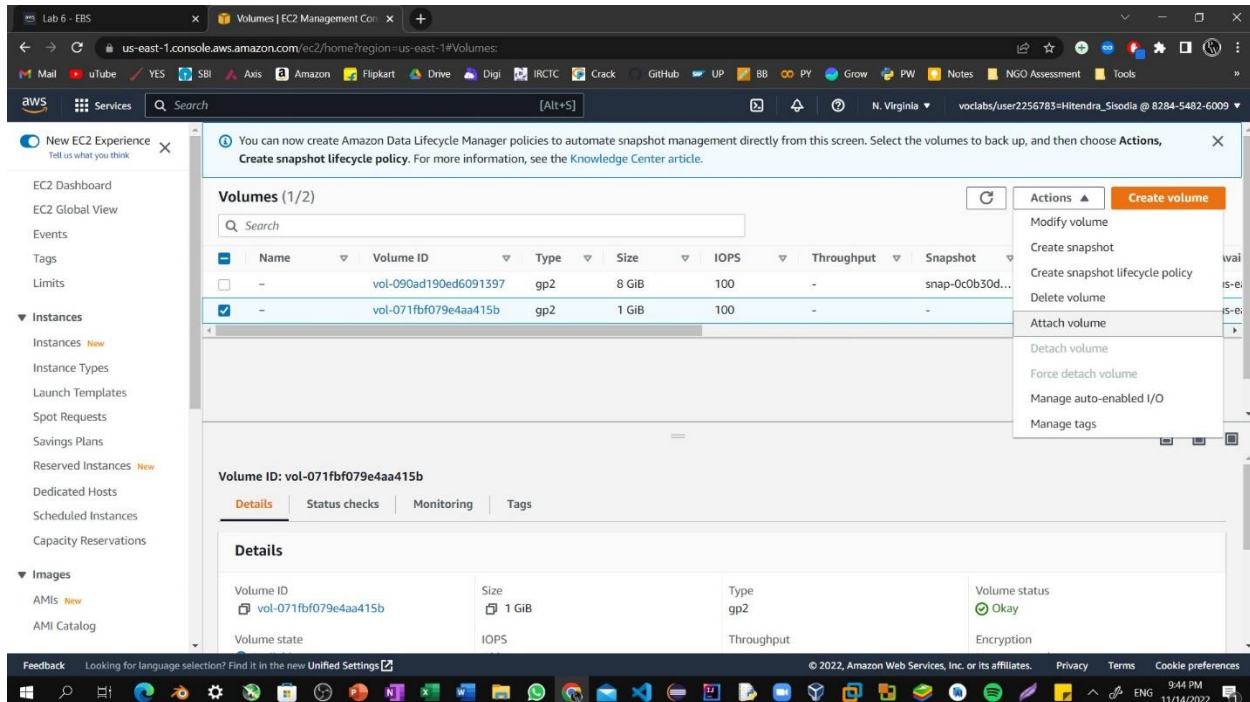


Step30: Scroll down and select **Create volume**.  
The new volume appears in the volumes list with a state of **available**.

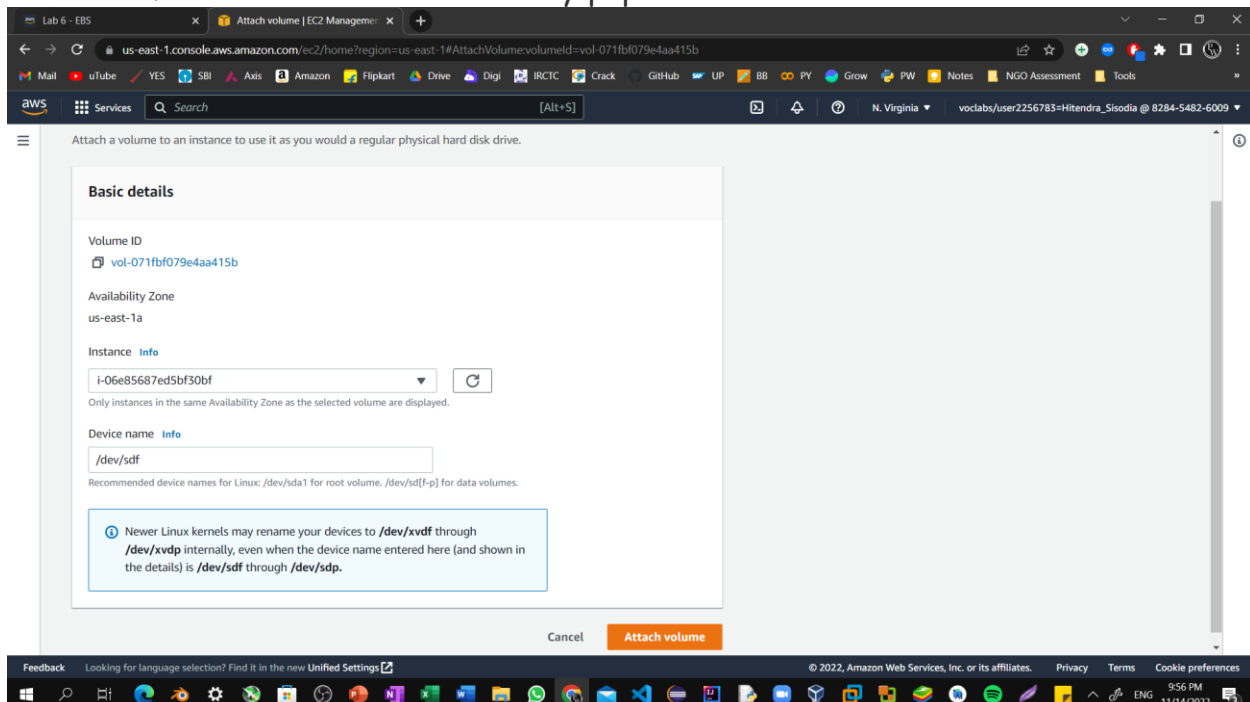


## Lab 11: Launching an EC2 Instance With EBS Storage

**Step31:** Select the new 1 GiB size volume. Then, choose **Actions**, and Select **Attach volume**.



**Step32:** Select the **Instance** drop-down menu, and then select your EC2 instance. The list of instances will automatically populate.

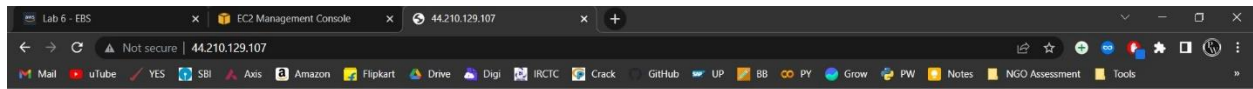




## Lab 11: Launching an EC2 Instance With EBS Storage

### Step33: Select **Attach volume**.

The state of the volume changes to *in-use*. The new volume is now attached to your EC2 instance. Refresh The webpage that we created using EC2 instance now updated with EBS Storage.



**Hitendra Sisodia EC2 Instance With EBS Storage**

