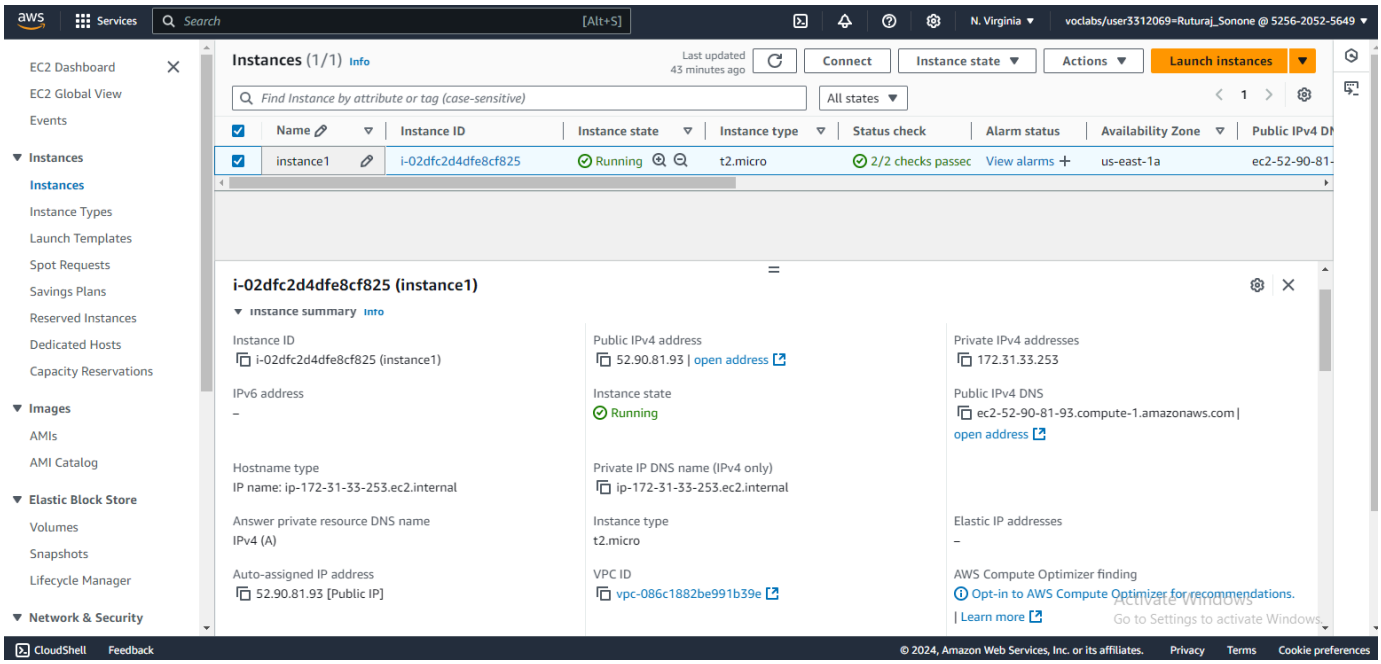
Hosting a website on AWS EC2 instance by using the NGINX web server.

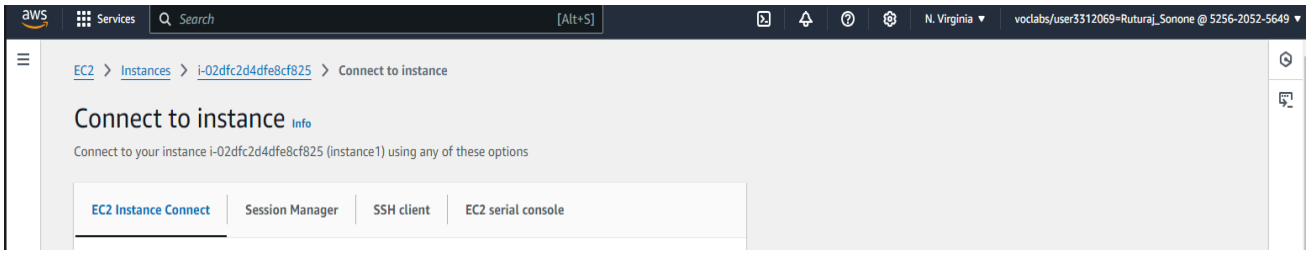
Step 1: Launch an EC2 Instance

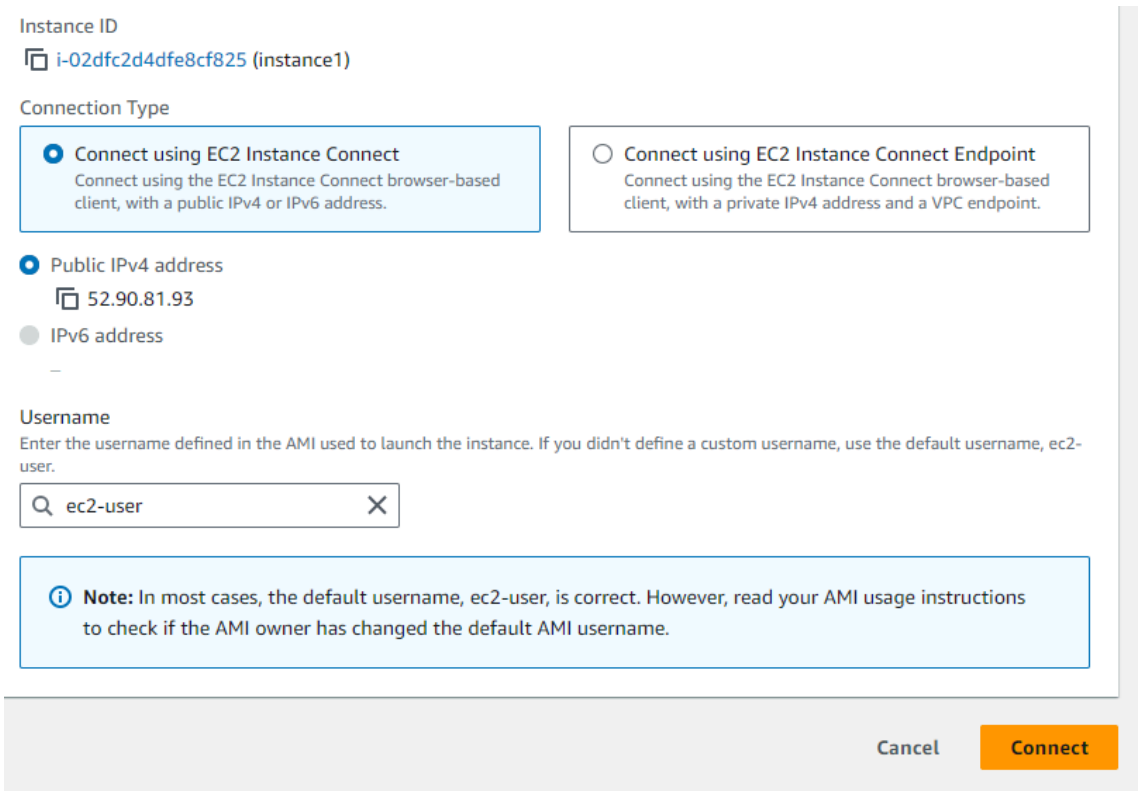
1. **Login to AWS Console**: Go to AWS Management Console, log in, and navigate to the EC2 service.

2. **Launch an Instance**:
   - Choose an Amazon Machine Image (AMI), such as **Amazon Linux 2** or **Ubuntu**.
   - Choose an instance type (e.g., **t2.micro** for free tier).
   - Configure instance details, security group, and storage.
   - Set up the Security Group to allow HTTP (port 80), HTTPS (port 443), and SSH (port 22) access.
   - **Launch the Instance** and keep the private as default



Step 2: Connect to EC2 instance





1. **Connect via SSH**: Open a terminal and run the following command and update the packages by using command in terminal :

   sudo yum update -y # For Amazon Linux
   sudo apt update -y # For Ubuntu

2. **Install Nginx**

```
[ec2-user@ip-172-31-33-253 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[ec2-user@ip-172-31-33-253 ~]$ sudo amazon-linux-extras install nginx1.12 -y

Installing nginx
```

Step 3 : Start and Enable Nginx by using these commands in terminal

```
[ec2-user@ip-172-31-33-253 ~]$
[ec2-user@ip-172-31-33-253 ~]$ sudo systemctl start nginx
[ec2-user@ip-172-31-33-253 ~]$ sudo systemctl enable nginx
[ec2-user@ip-172-31-33-253 ~]$
```

Step 4 : Upload application code file if you want otherwise the default index.html page that is distributed with nginx on Amazon Linux. It is located in /usr/share/nginx/html.

- now put your content in a location of your choice and edit the root configuration directive in the **nginx** configuration file /etc/nginx/nginx.conf.

Step 5 : Test & Check the web-page using public IP address and port number

- http://<public IP>:<port>

Welcome to **nginx** on Amazon Linux!

This page is used to test the proper operation of the **nginx** HTTP server after it has been installed. If you can read this page, it means that the web server installed at this site is working properly.

Website Administrator

This is the default `index.html` page that is distributed with **nginx** on Amazon Linux. It is located in `/usr/share/nginx/html`.

You should now put your content in a location of your choice and edit the `root` configuration directive in the **nginx** configuration file `/etc/nginx/nginx.conf`.

[Powered by nginx]