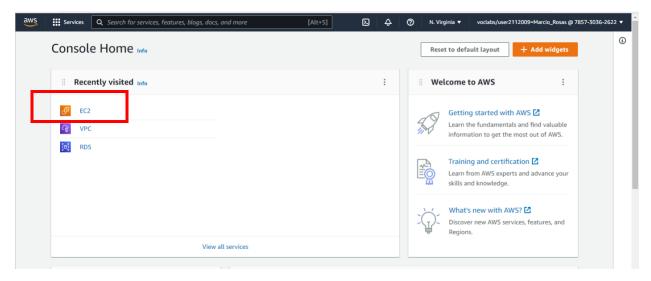
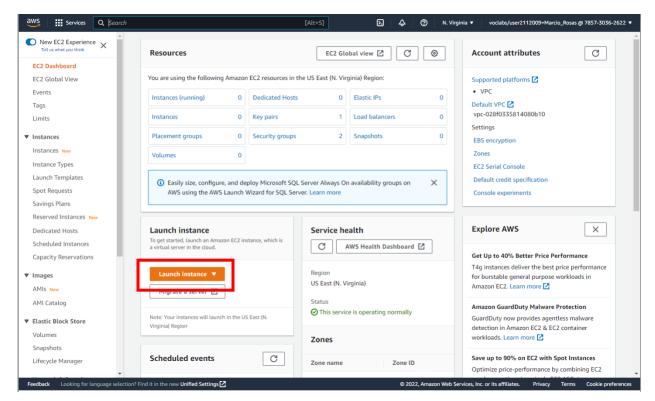
Creating EC2 Instance on AWS: Instructions

Go to AWS Academy (https://awsacademy.instructure.com/), start your lab and go the AWS console Home. Revisit the instruction for RDS setup if you need (they are in Canvas, files/Create DB file)

On the Console Home, click on EC2:

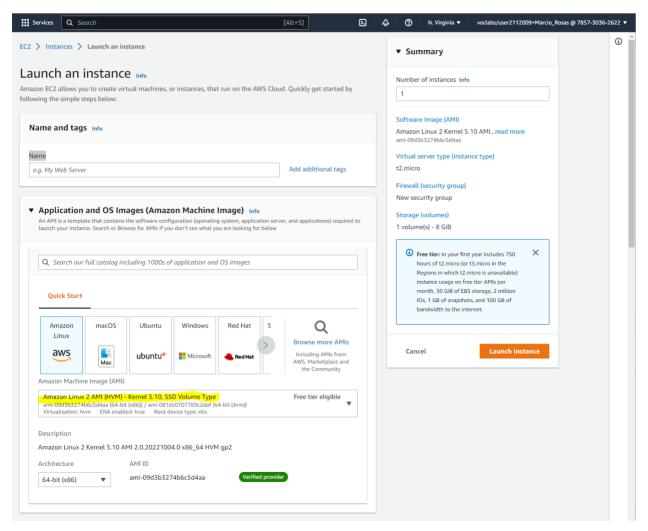


From the console dashboard, choose Launch Instance

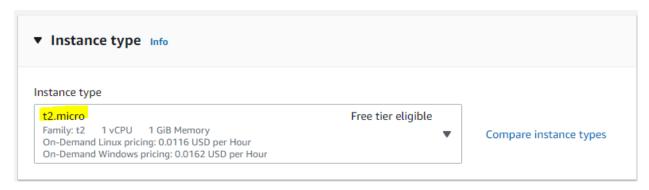


In the next screen, choose:

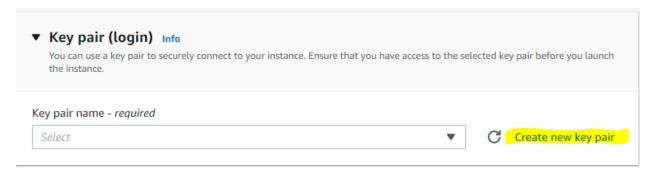
Amazon Linux 2 AMI (HVM), Kernel 5.10, SSD Volume Type as the AMI, as shown below:



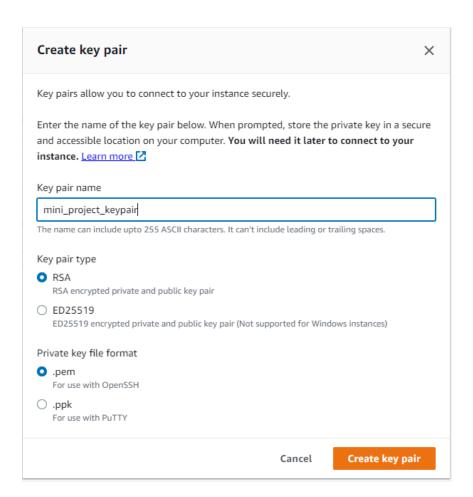
Scroll down and select t2.micro as instance type:



Scroll down to the section "Key Pair(login)" and click on "create New Key pair", as highlighted below:

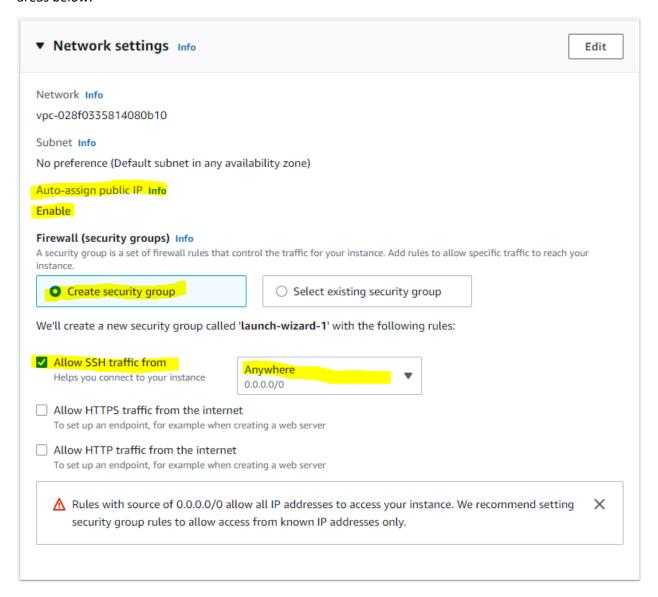


You will see the screen below. Give a meaningful name to your new key pair and click on the orange button "Create key pair".

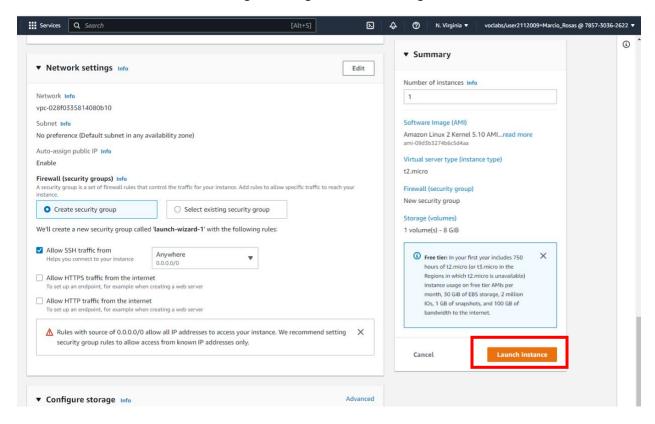


This will download a .pem file to your computer. Move this pen file to the ssh folder of your computer (usually, this folder is directly under your user in your file system). Make sure you remember this folder location and this file name. You will need them later on, to connect to your EC2.

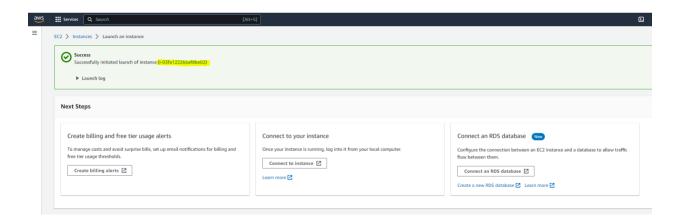
Scroll down to the network settings section and make sure that your settings are like the highlighted areas below:



After that, click "launch instance" using the orange button on the right section of the screen:



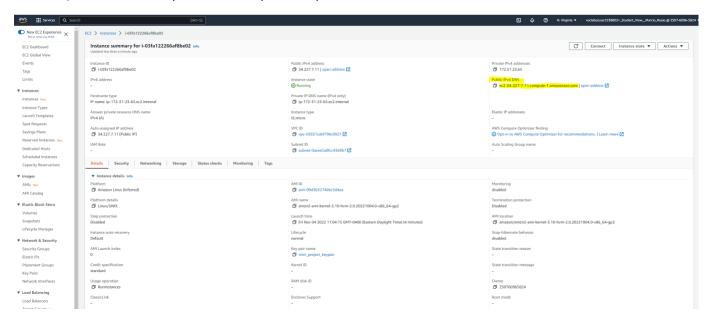
You will see this screen below, confirming your EC2 instance has been correctly launched. Click on the highlighted area to navigate to your EC2 dashboard.



On the Ec2 dashboard, you'll see the screen below. Click on the highlighted area to open your ec2 details.



You'll see the screen below with all the details of your EC2. Copy the public IPv4 DNS (yours will be different from the one in the screen below). You'll need to paste it on your terminal (Power Shell or Terminal) to connect with your EC2 from your computer.



Now, open your Mac OS Terminal or Windows Power shell and type:

ssh -i ssh/your_keypair_name.pem ec2-user@your_public_IPv4

keep in mind that, regarding ssh/your_keypair_name.pem and your_public_IPv4:

ssh is the folder where you put the key pair you created. If you put it into a different folder, you need to use the correct path to the file here.

your_keypair_name.pem refers to the name you gave to your key pair. Yours should be different than this.

Your terminal screen should look like this:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\mr1267> ssh -i ssh/mini_project_keypair.pem ec2-user@ec2-34-238-233-5.compute-1.amazonaws.com
```

After you hit enter, you should see the following, confirmed that your have successfully connected to you EC2.

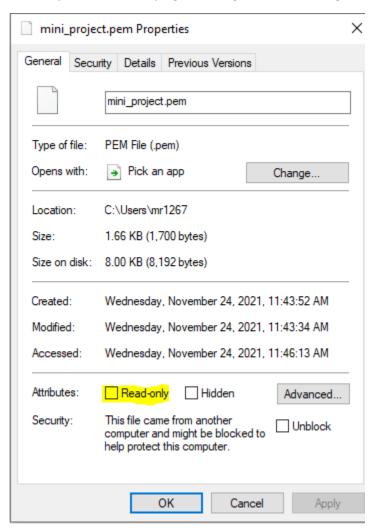
```
__| __|_ )
__| ( / Amazon Linux 2 AMI
___| ( / Amazon Linux 2 AMI
___|\__|
https://aws.amazon.com/amazon-linux-2/
13 package(s) needed for security, out of 16 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-85-152 ~]$
```

Once you see this screen, logout from the EC2 by typing "exit" with go back to the Mini-project Instructions.

Troubleshooting:

Windows users:

You may need to change the permissions of your_keypair.pem file to ready only. You can do that manually via Windows by right clicking on it and making the change in the screen below::



Mac users:

Permissions to your_keypair.pem file must be set to read-only by owner. For that, use the command chmod 400 your_key_file.pem

on your terminal.