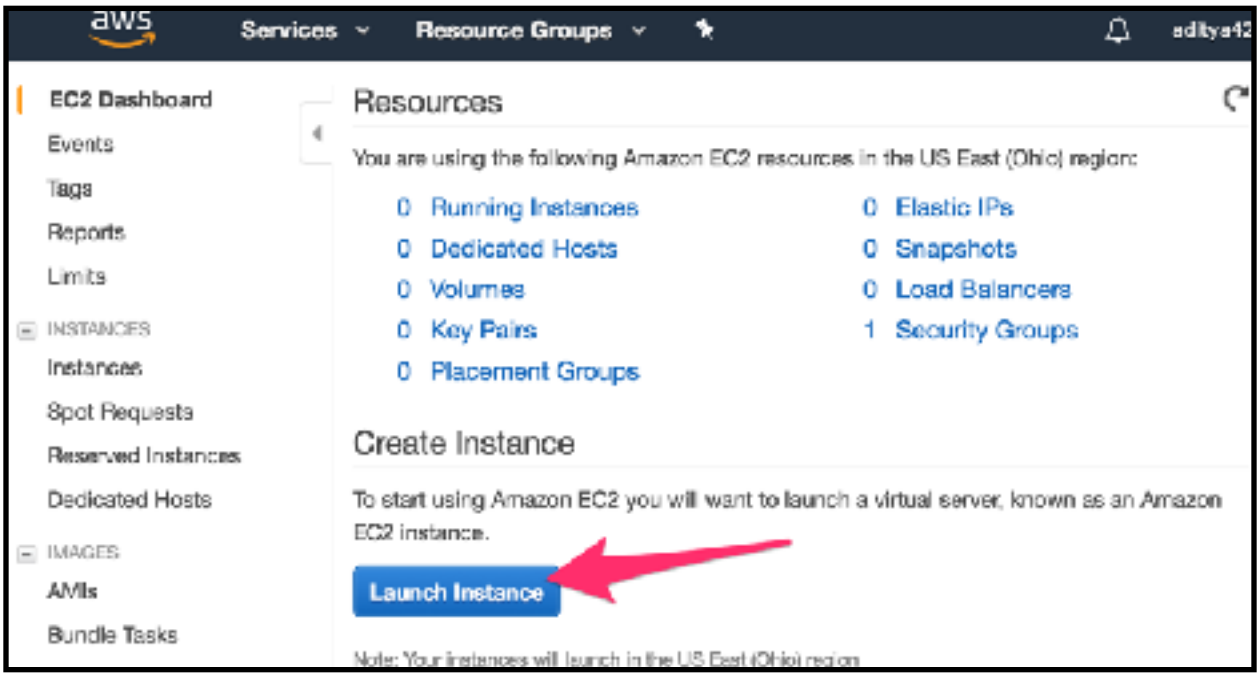
Deploying my Rails web app to AWS

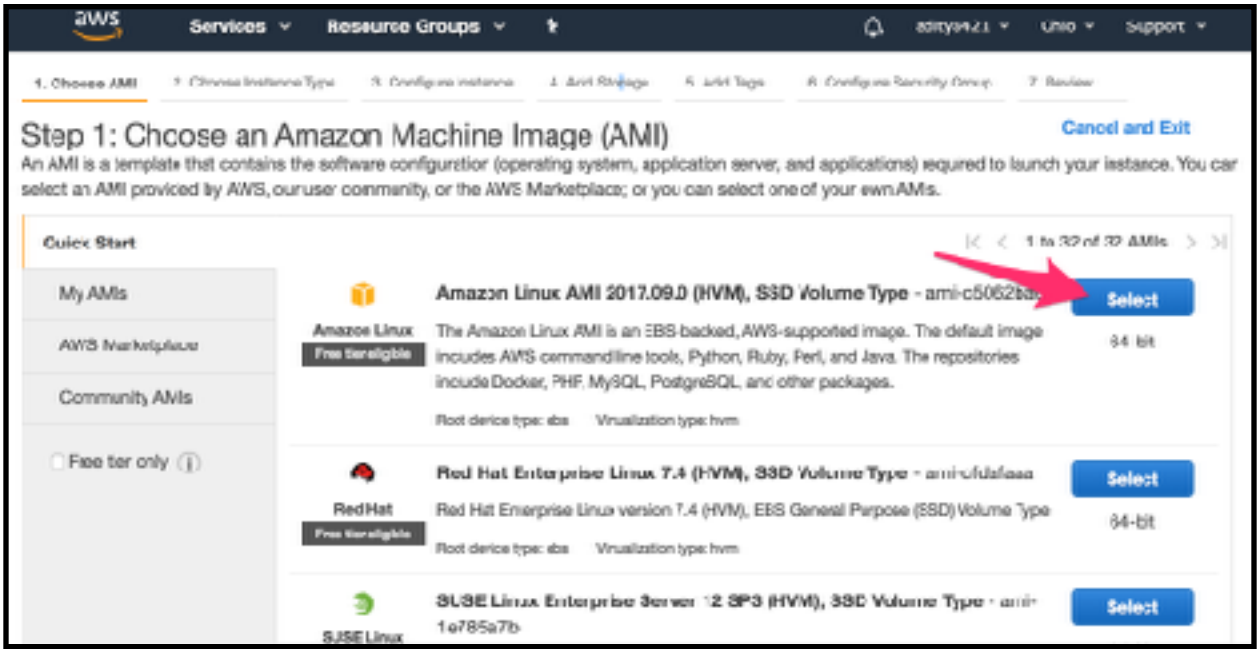
To begin with Login to your AWS account

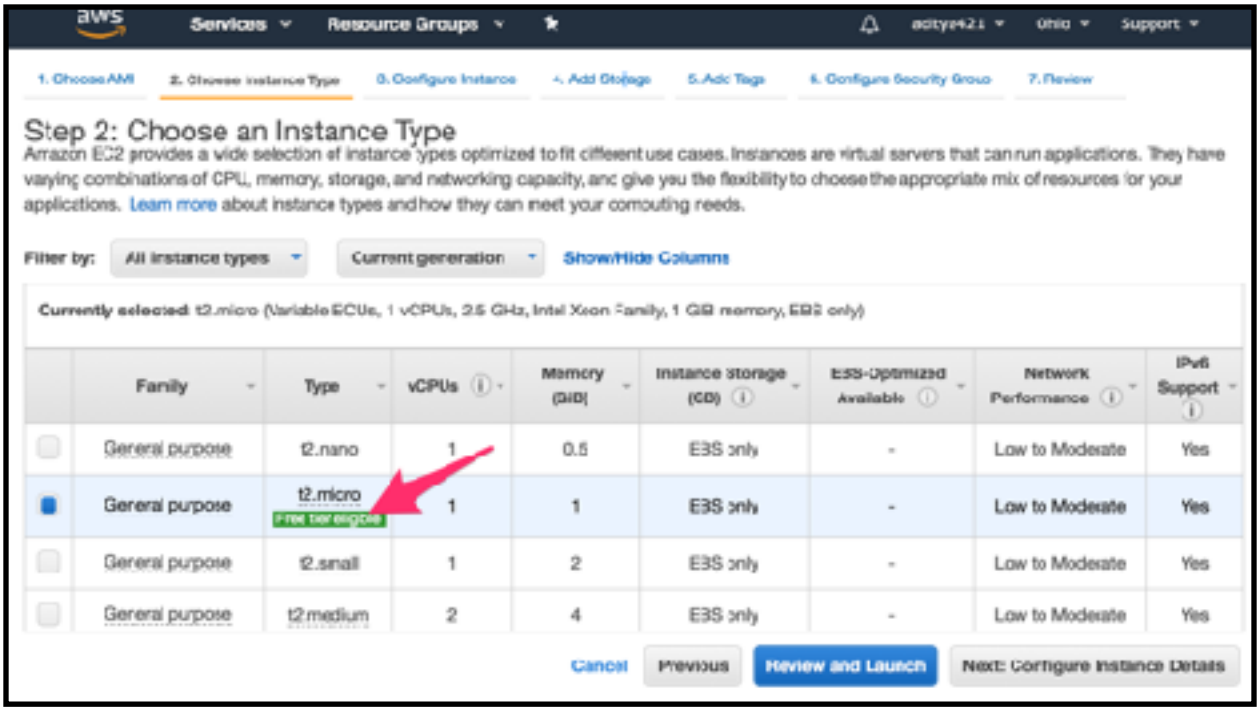
Setting up EC2 Instance:

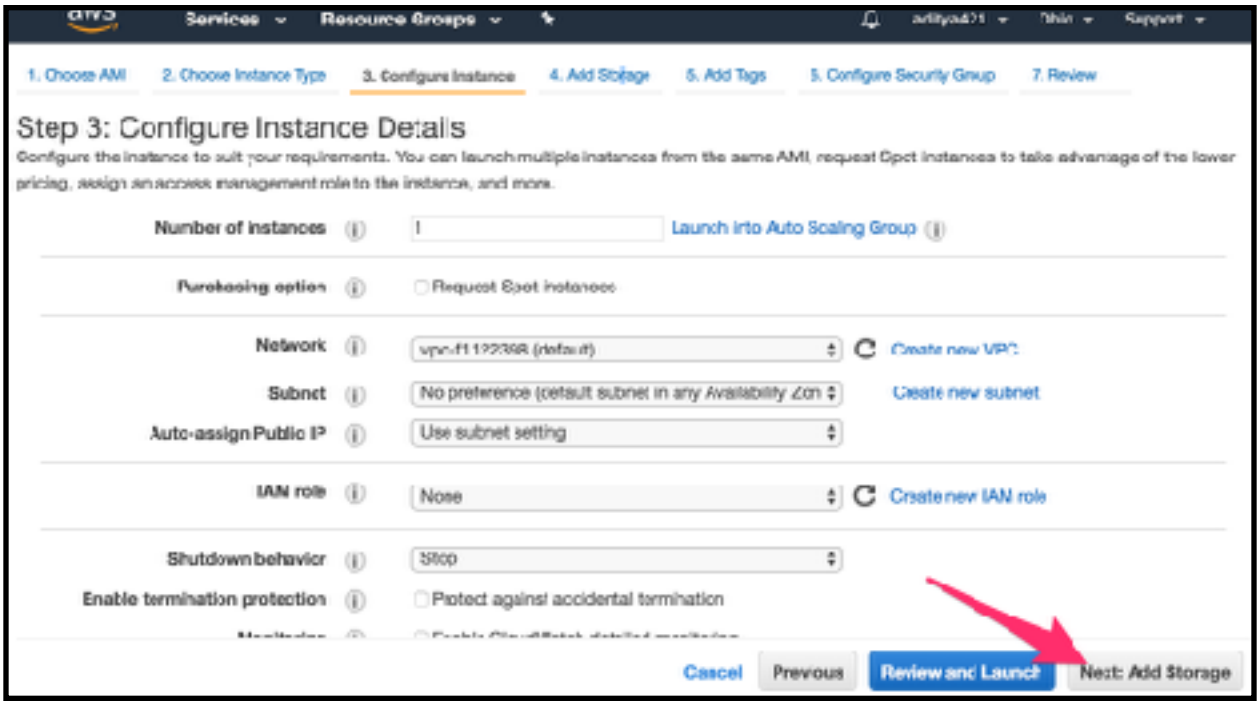
1. Launch Instance



2. Choose an AMI (Preferred Amazon Linux AMI)

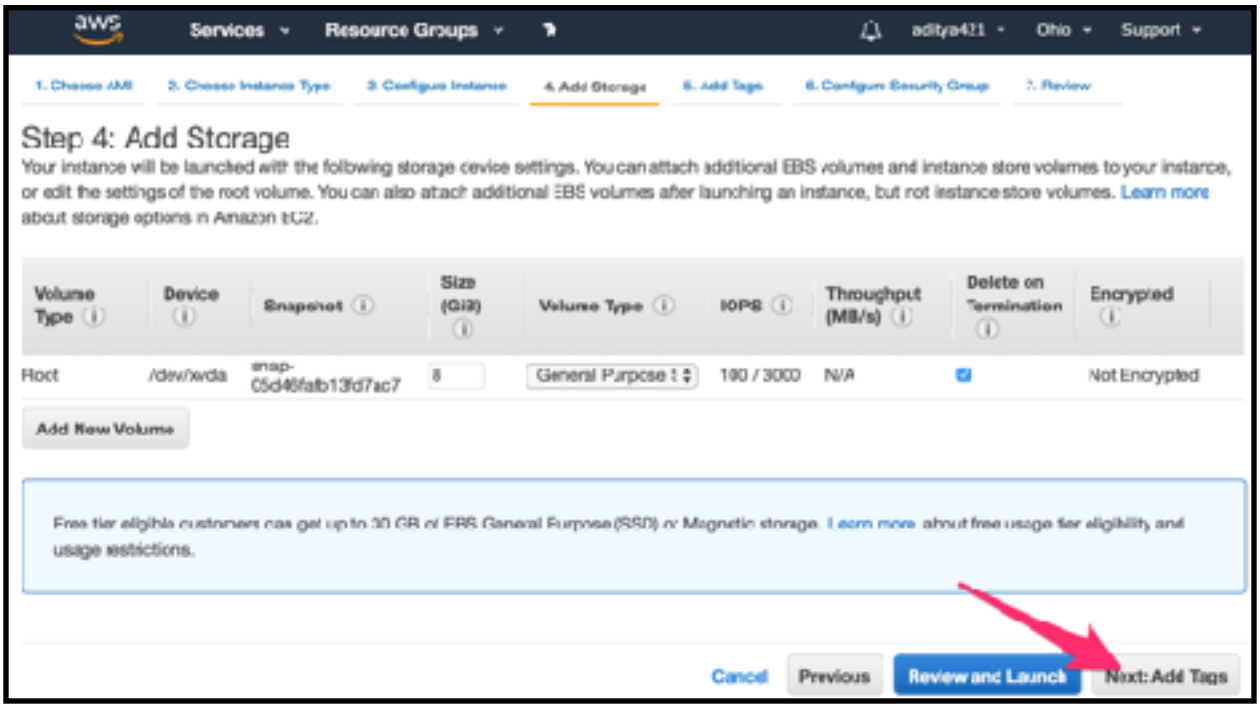




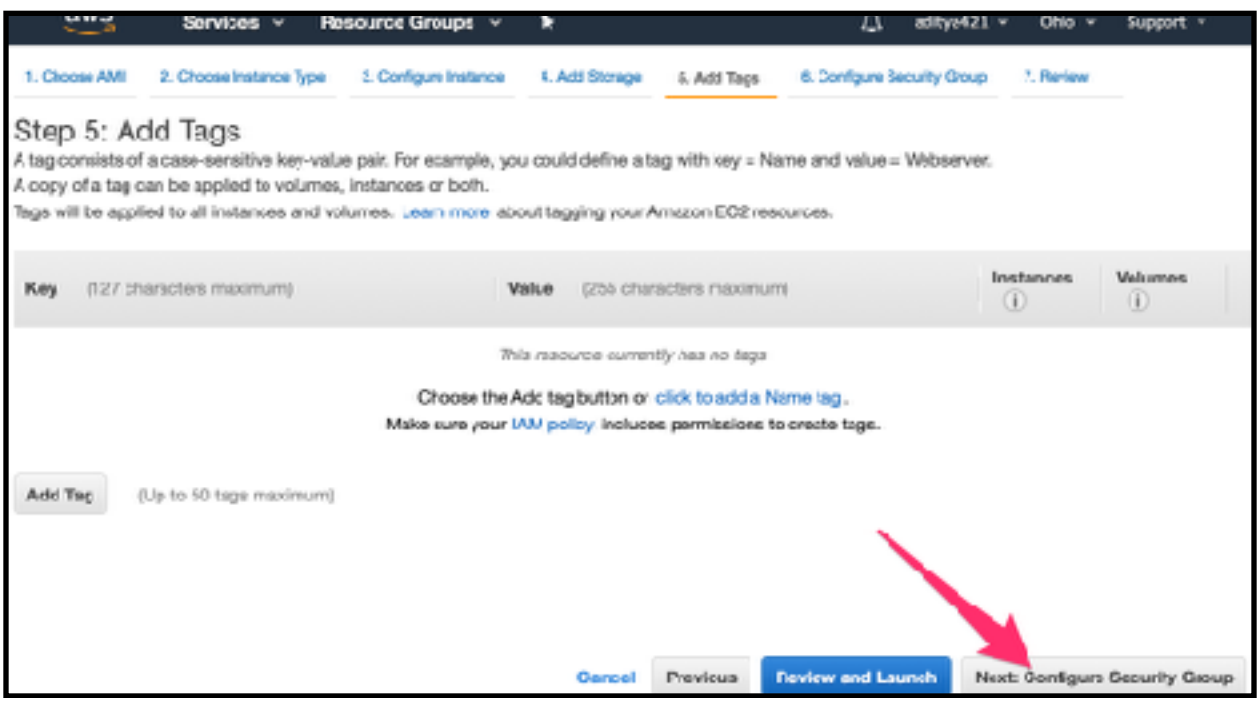


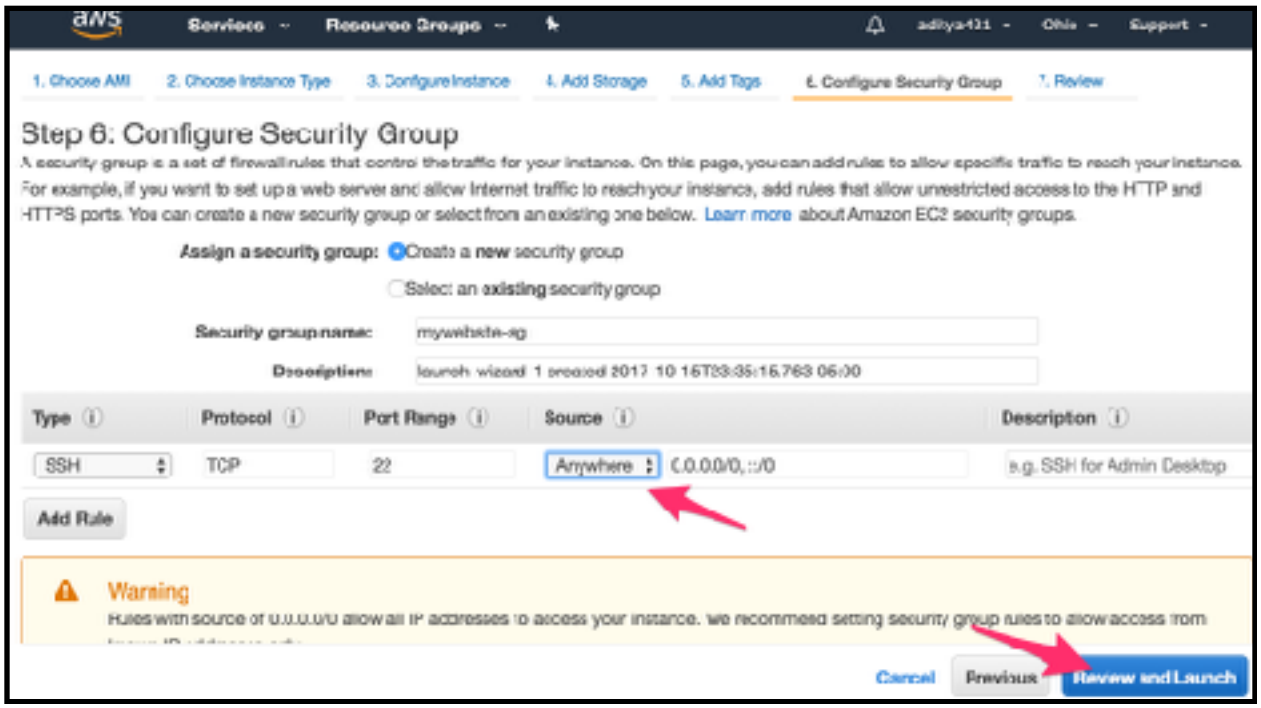
3. Choose instance type:
4. Configure Instance Details:(Leave as it is and hit next)

5. Add Storage: (Leave it as it is and hit next)



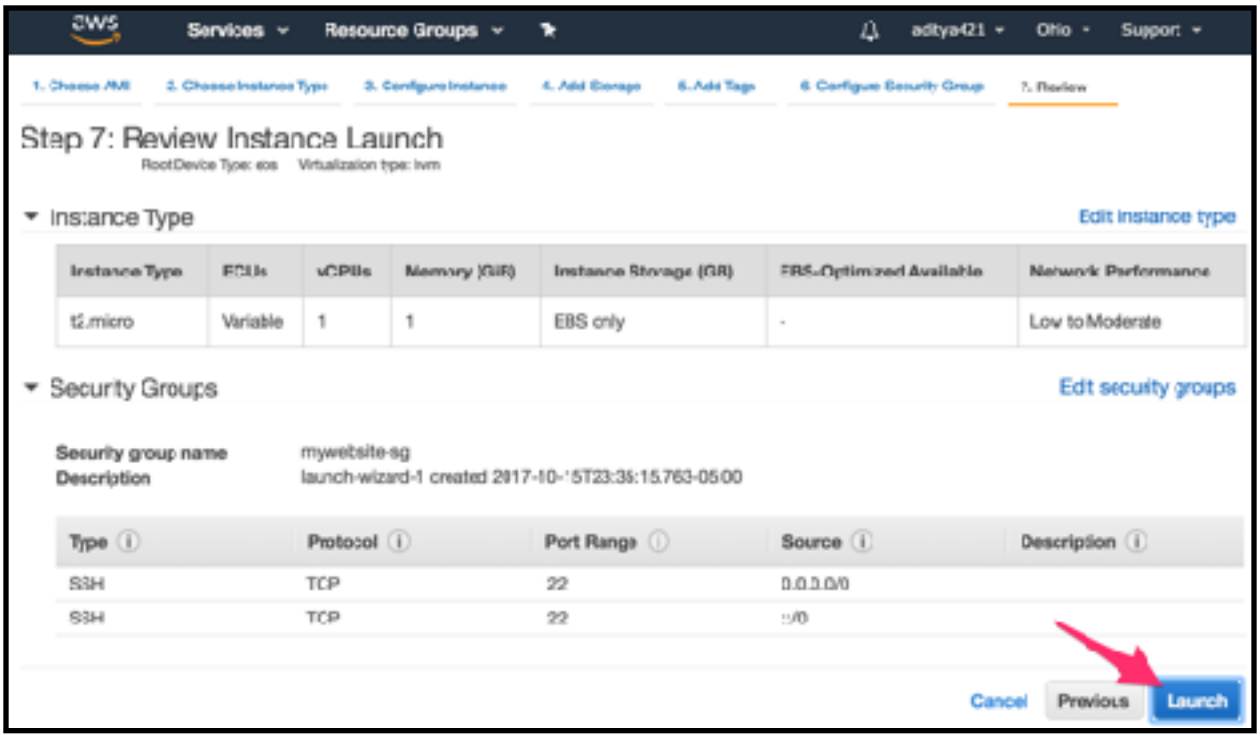
6. Add Tags (Leave as it is and hit next)

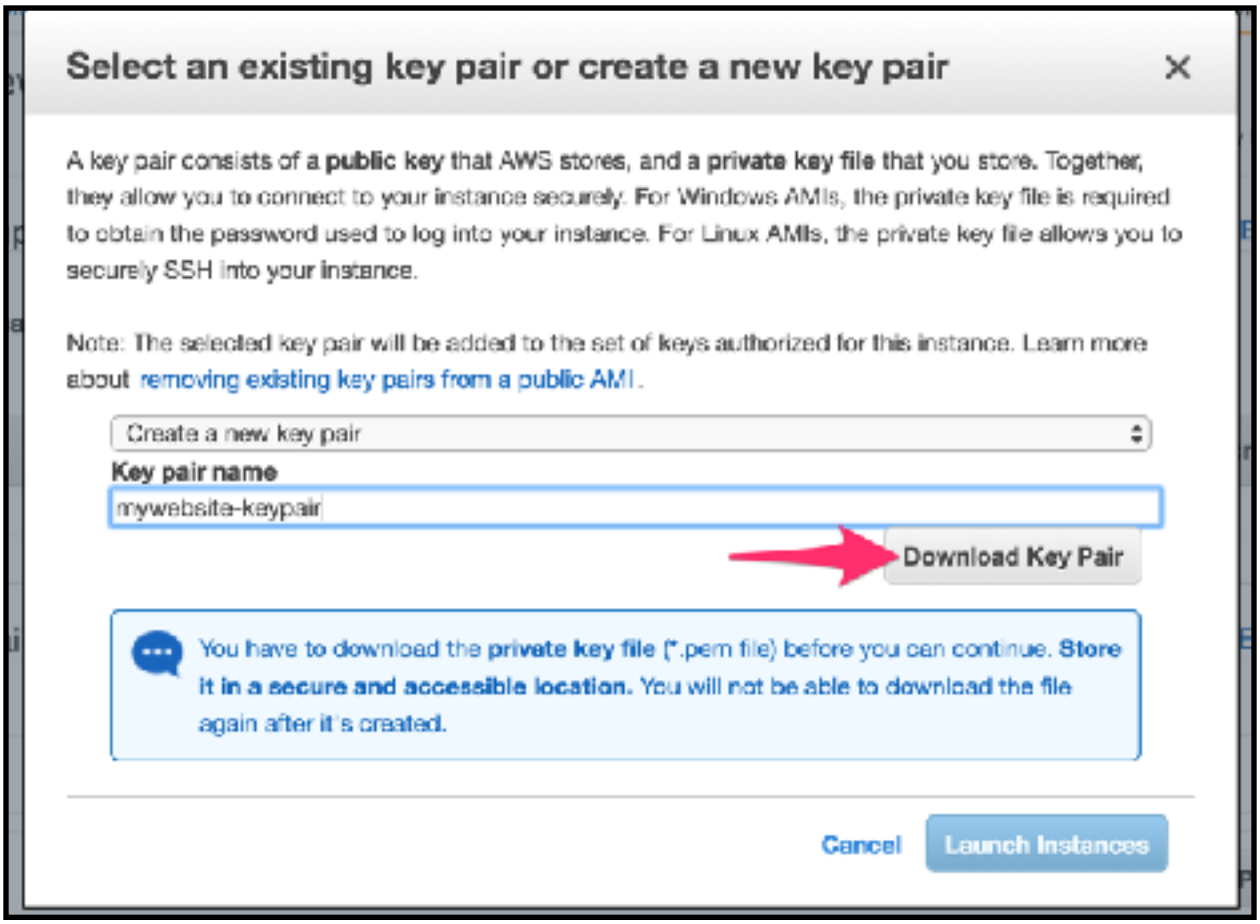




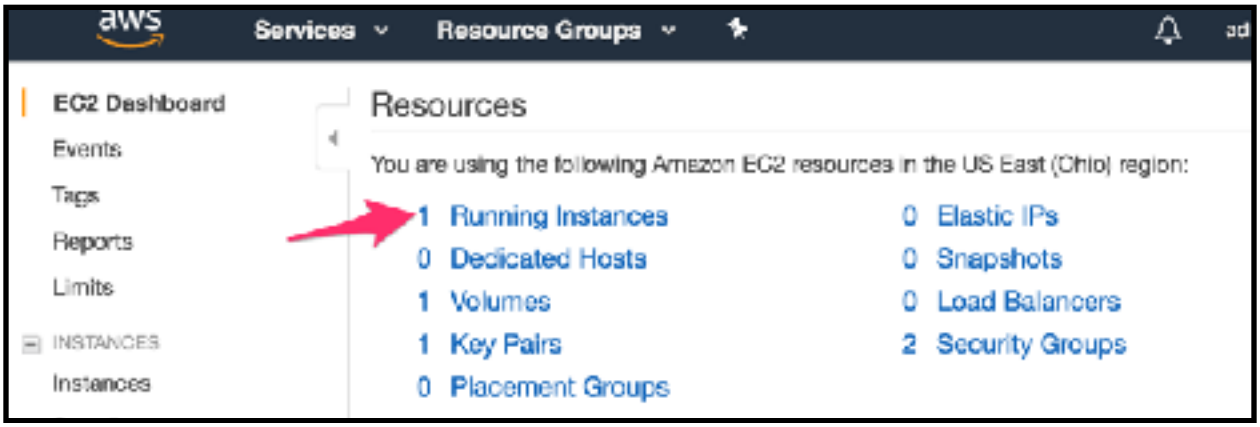
7. Configure security group

8. Review and Launch Instance





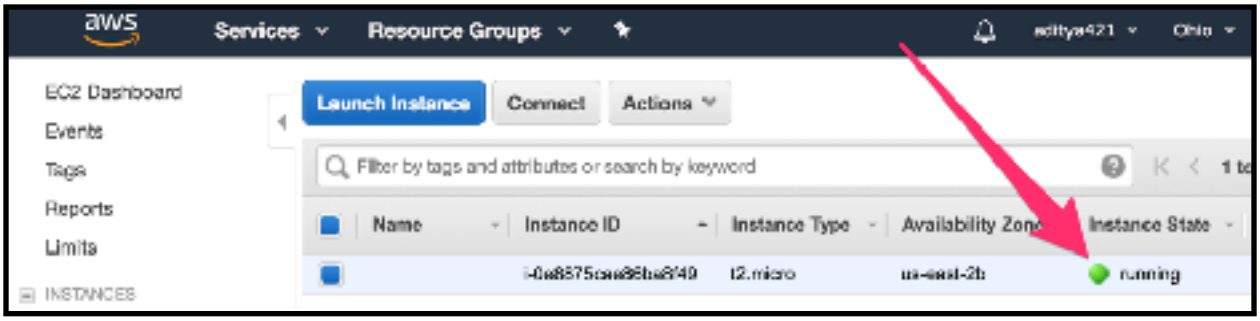
9. Create a new key-pair and save it locally(ex: Desktop) and launch the instance
(This key will be used to access your EC2 instance through ssh) Keep it safe!
10. Browse to AWS dashboard > EC2 > You should be able to see 1 running instance:



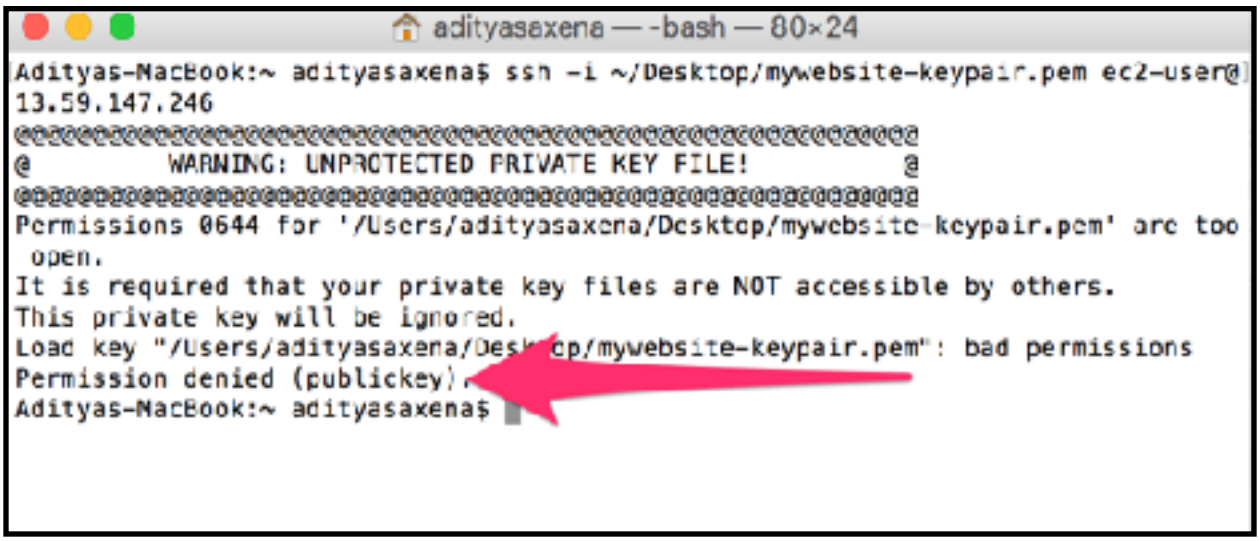
EC2 setup is now complete!

Accessing your EC2 Instance:

1. Browse to AWS dashboard > EC2 > Running Instances:



2. SSH into your instance:
 Open your terminal and use below command (replace the IP with the IP of your instance)
ssh -i ~/Desktop/mywebsite-keypair.pem ec2-user@yourEC2IPAddress
As you can see it failed!



You need to update the permissions:

chmod 400 <path to your .pem file>

and run ssh command again: Access successful!

Deploying my web app from repository on GitHub:

My rails app is on GitHub repository and in order to get it on our EC2 instance we need to install git on our EC2 server:

1. As we can see nothing is installed on our EC2 server right now:

```
adityasaxena — ec2-user@ip-172-31-18-14:~ — ssh -i ~/Desktop/mywebsi
[ec2-user@ip-172-31-18-14 ~]$ ls -aF
./  ../  .bash_logout  .bash_profile  .bashrc  .ssh/
[ec2-user@ip-172-31-18-14 ~]$
```

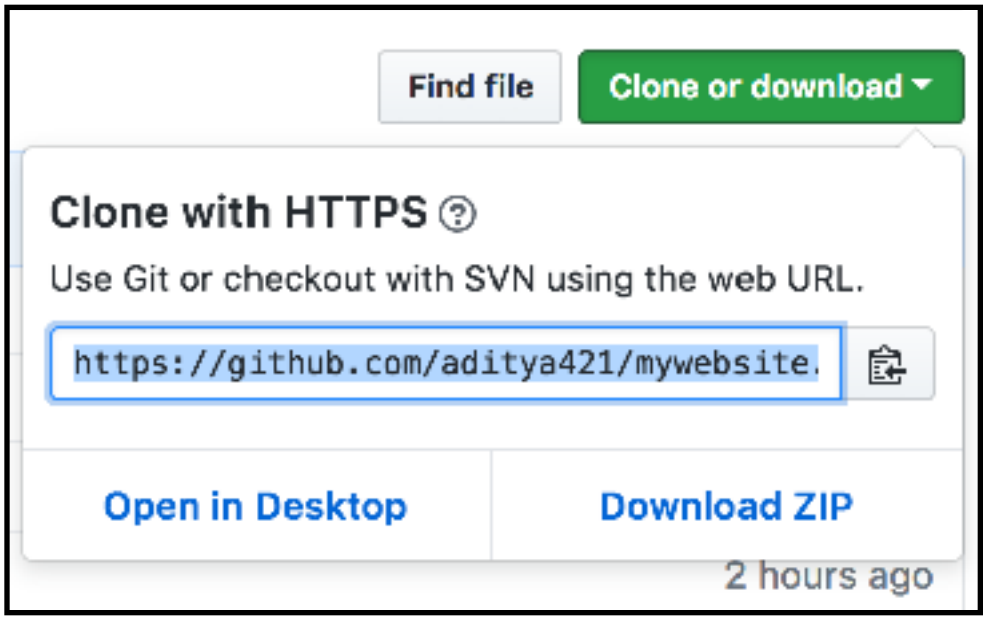
2. We will now install git on our EC2 instance
(Amazon linux uses yum as the default packet manager)

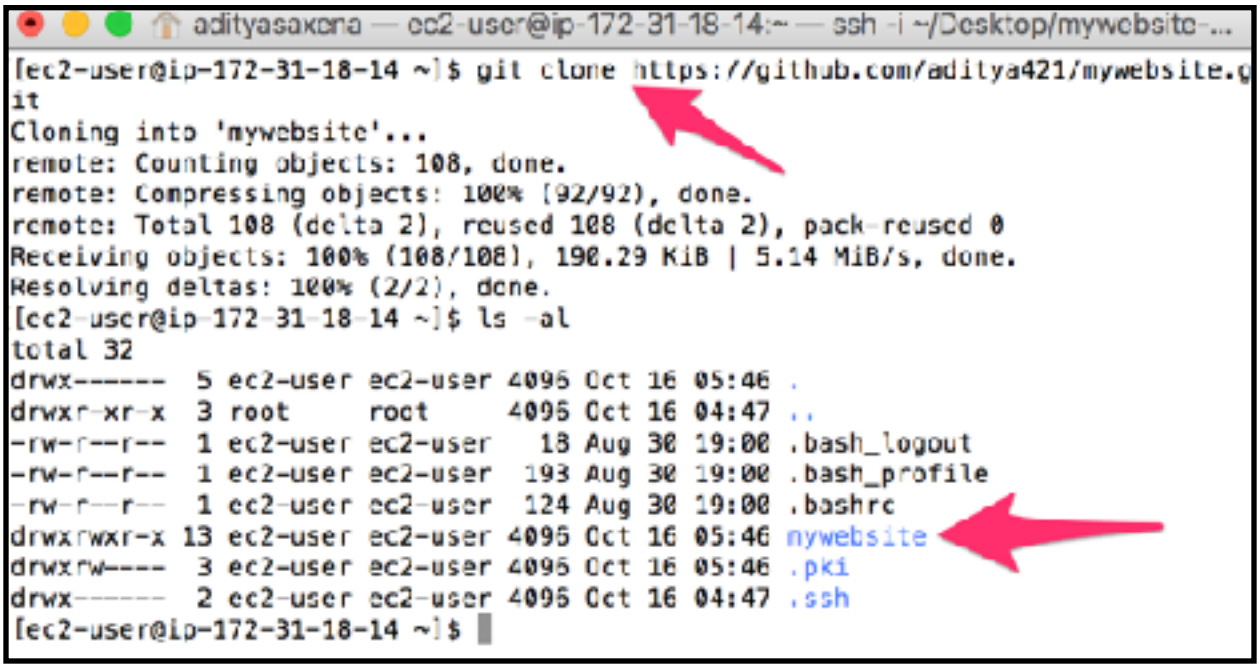
$ sudo yum install git-all

Once installed you can check that we have installed git:

```
Complete!
[ec2-user@ip-172-31-18-14 ~]$ which git
/usr/bin/git
[ec2-user@ip-172-31-18-14 ~]$
```

3. Go to your repository on GIT and get the link and clone it as follows:





As you can see my repository (mywebsite) appears on our ec2 instance.

Now that we have our rails app available on our EC2 server, we need rails installed in order to run my app.
For that follow instructions online and set up rails in order to run the app.

After setup test your app as follows:

https://rvm.io/

gem install bundler

bundle install

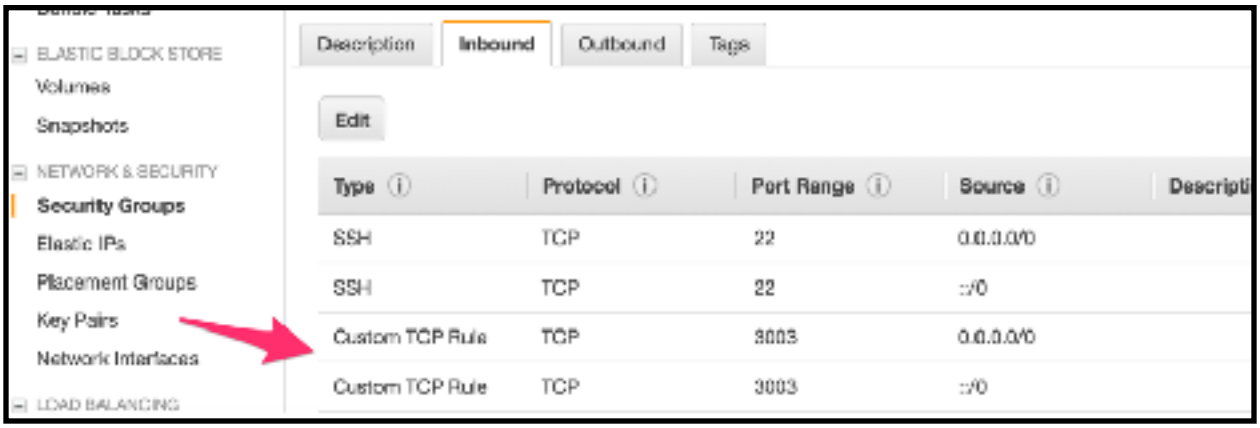
ruby -v && rails -v

install nodejs to support your rails app

```
sudo ln -sf /usr/bin/nodejs /usr/local/bin/node
```

In order to view your rails app through your EC2 IP Address:

Add the following entry to allow traffic on port 3003 in EC2>Network Security>Security Groups



Browse to your project directory and run the following command to start your app:

$ rails s -p 3003 -b 0.0.0.0

Access your web app through the IP of your instance: (Remember to add port :3003 in front of the IP address)