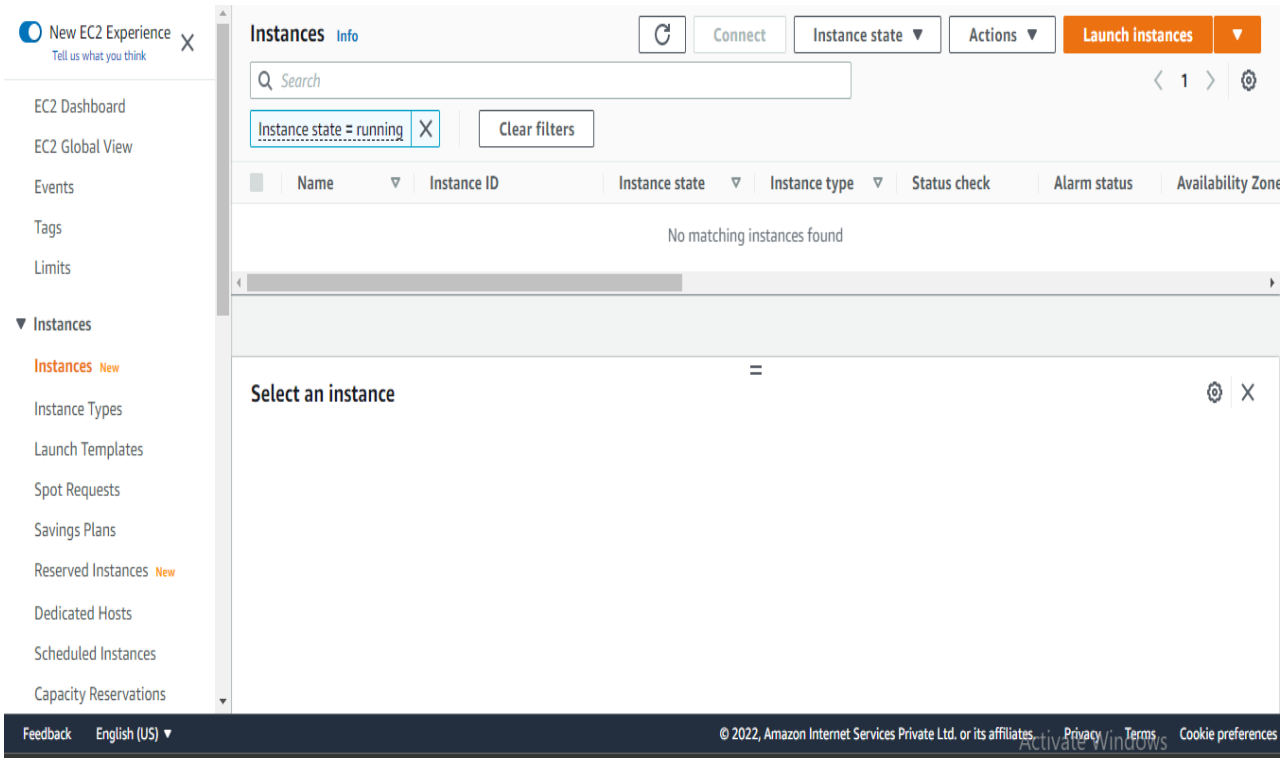
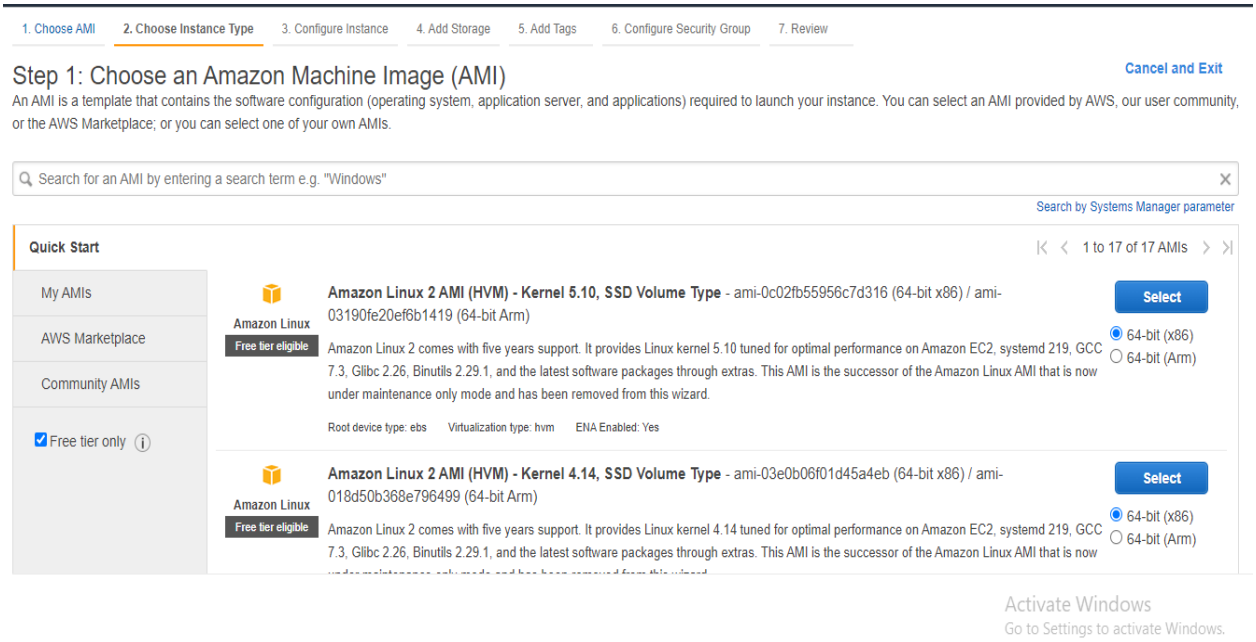
Static website on ec2(AWS)

Launch an EC2 instance

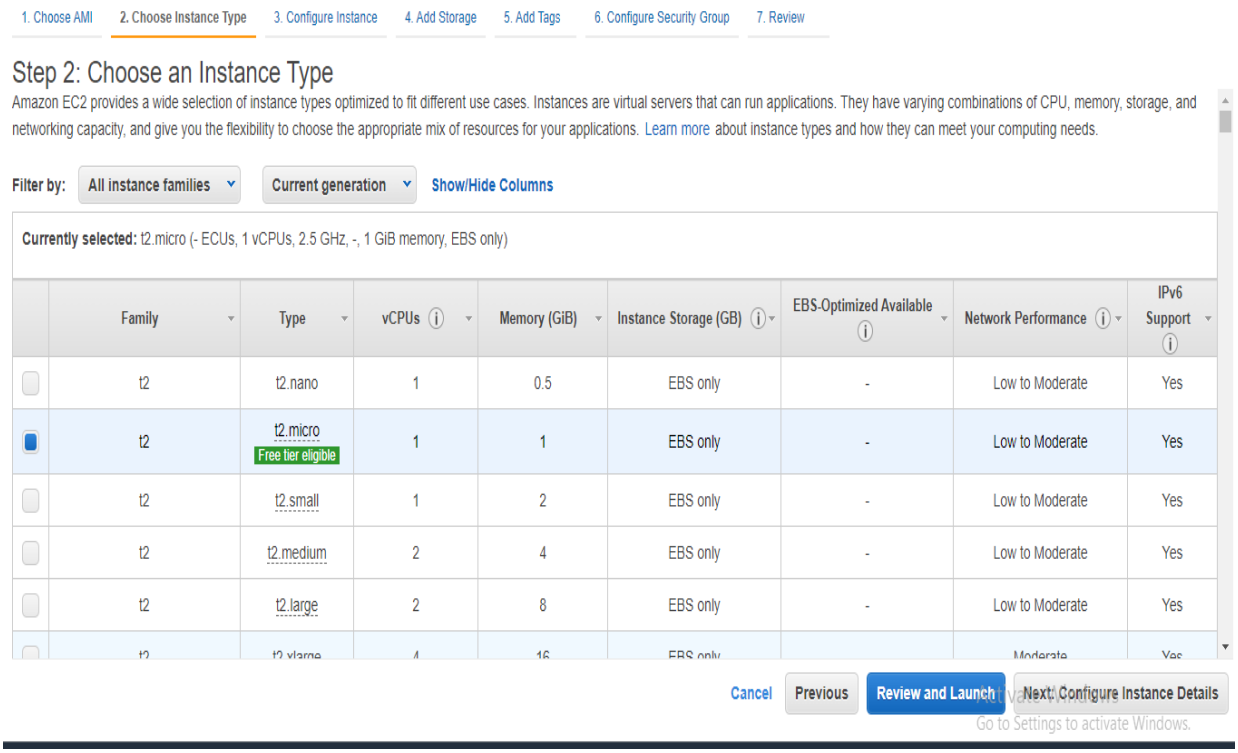
1. Sign in to AWS console and open the ec2 dashboard.



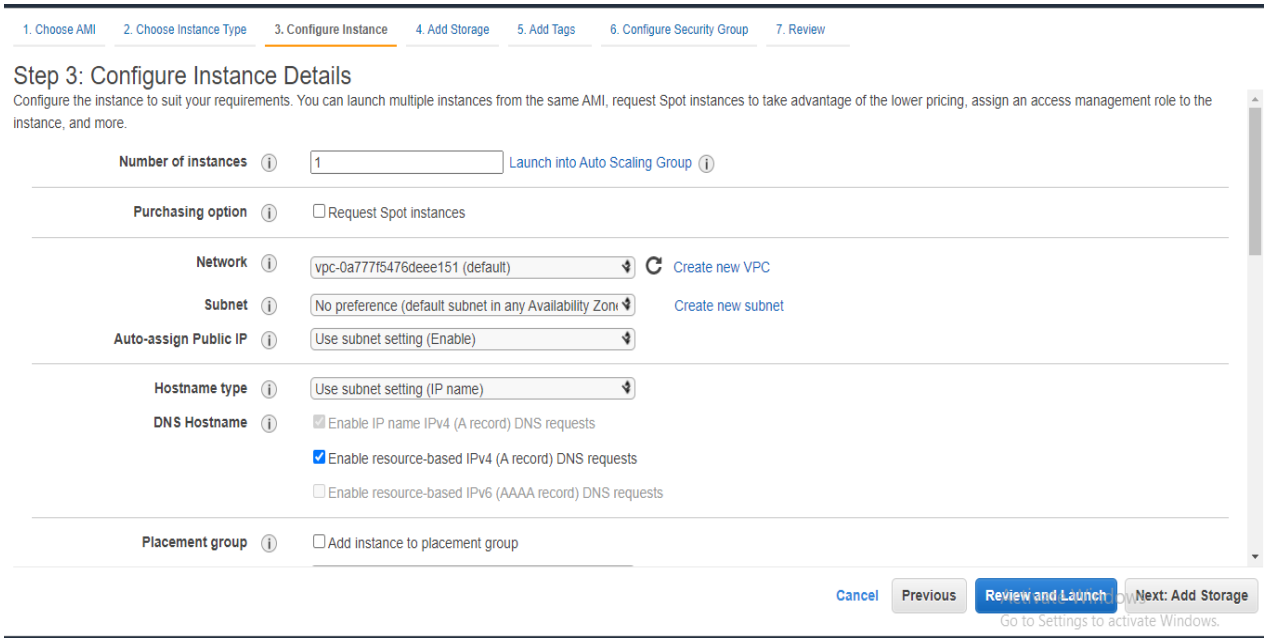
2. Choose the option to Launch Instance.
    2.1 Choose the free tier option to avoid chargers for machine.
    2.2 Under free tier you can use 750hrs an ec2 instance.
    2.3 Now choose the Amazon Linux 2 AMI instance and do further do further configuration in the next steps.



3. Choose the **t2.micro** instance type, as shown following, and then choose **Next: Configure Instance Details**.

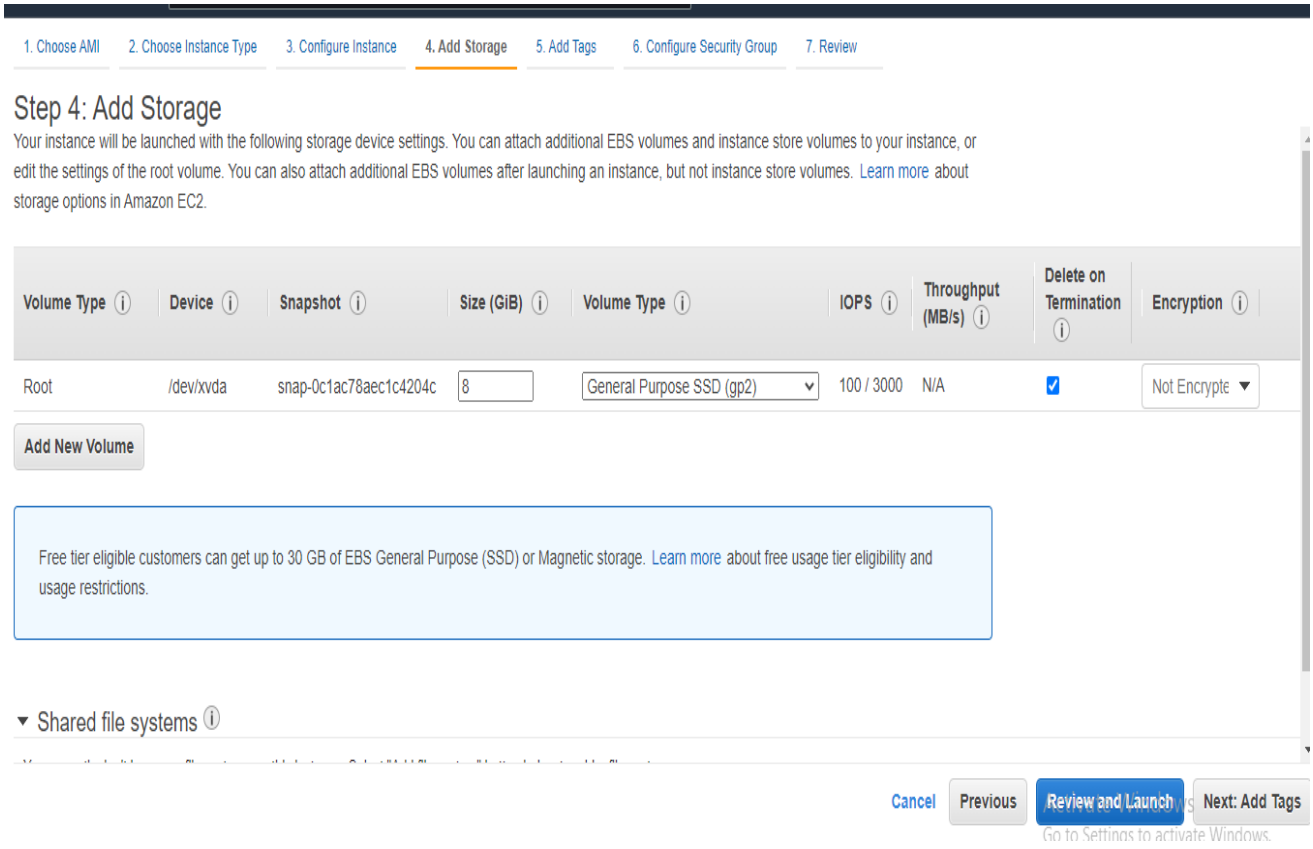


4 . On the Configure Instance Details page as their defaults:

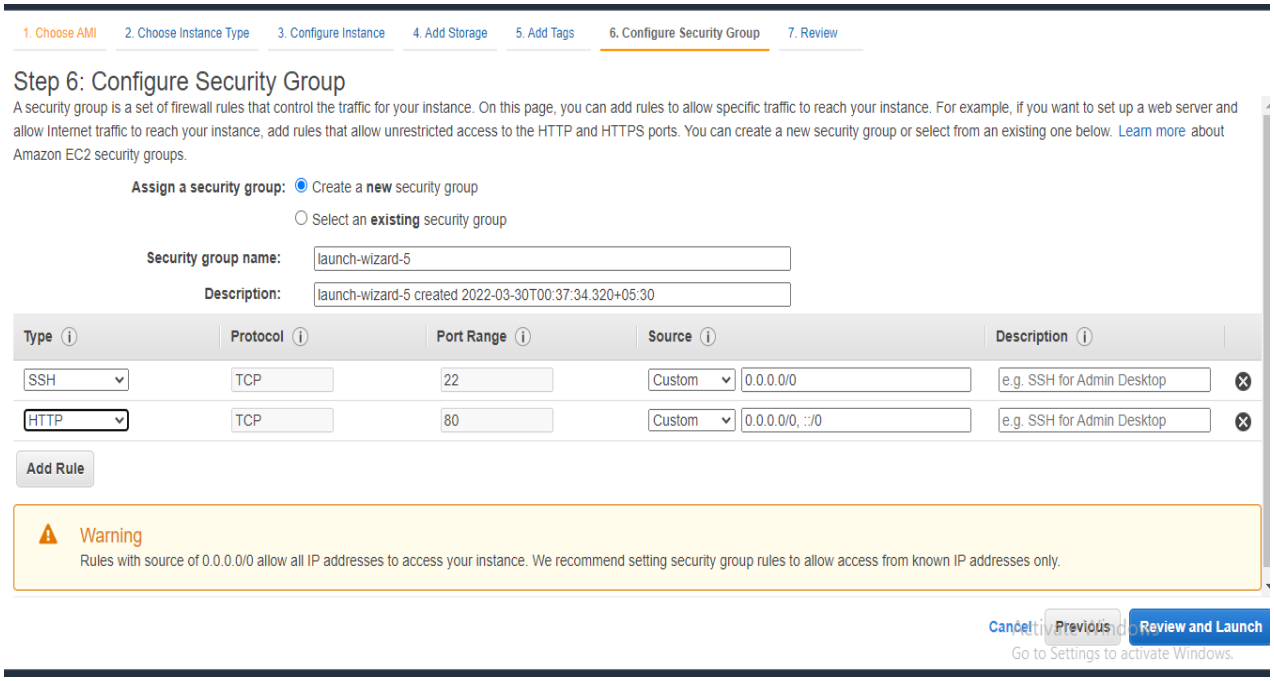


5. Choose Next: Add Storage

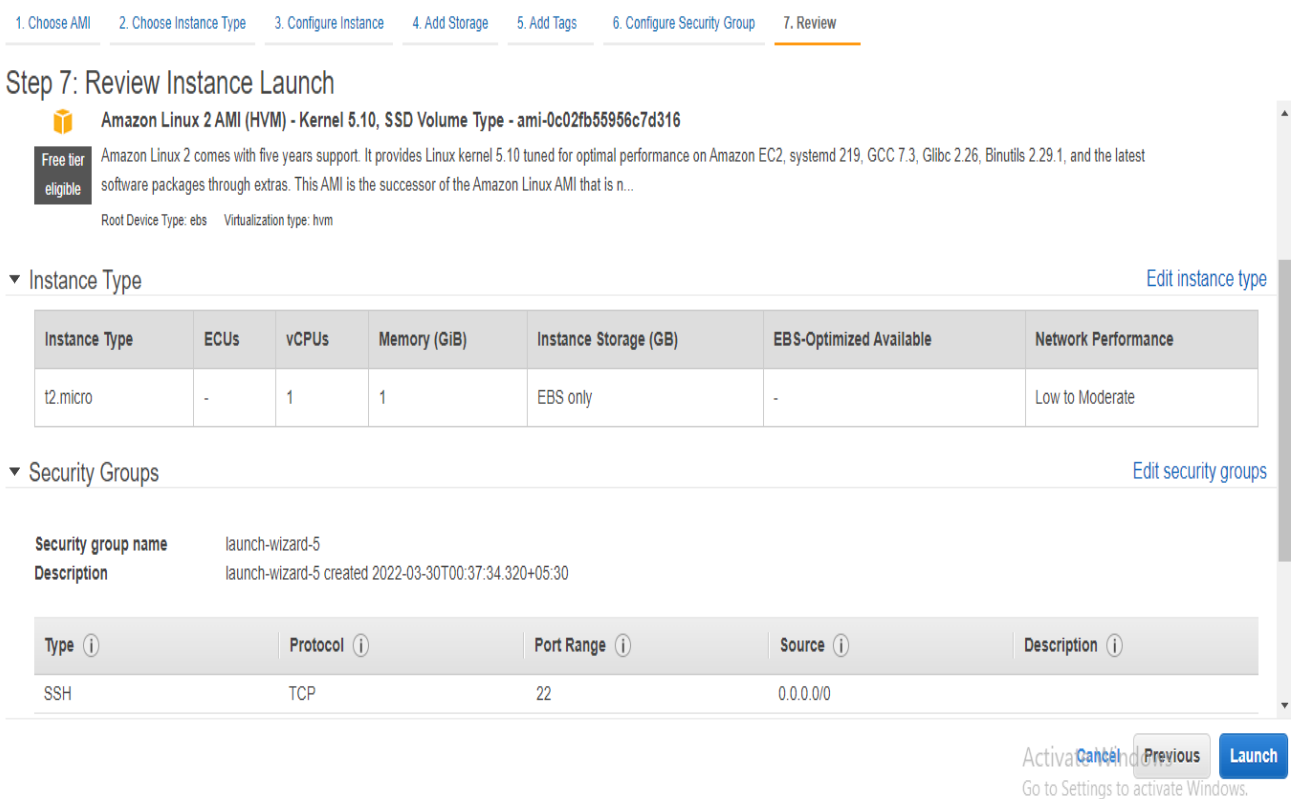
5.1 In the Add storage page you can extra ebs volume if you want by add volume Option.



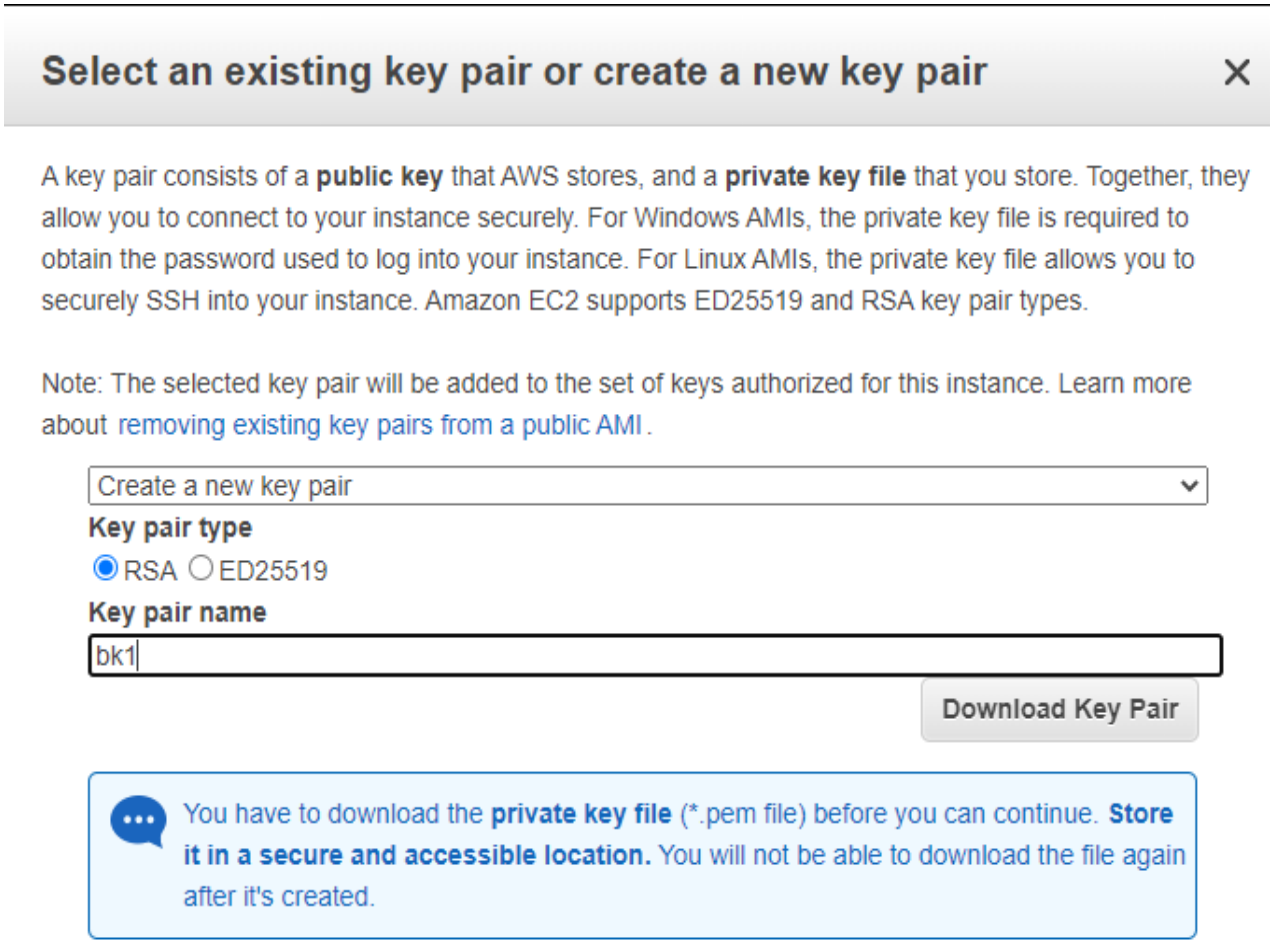
6. On the Configure Security Group page, Make sure that the security group that you choose includes inbound rules for Secure Shell (SSH) and HTTP access.



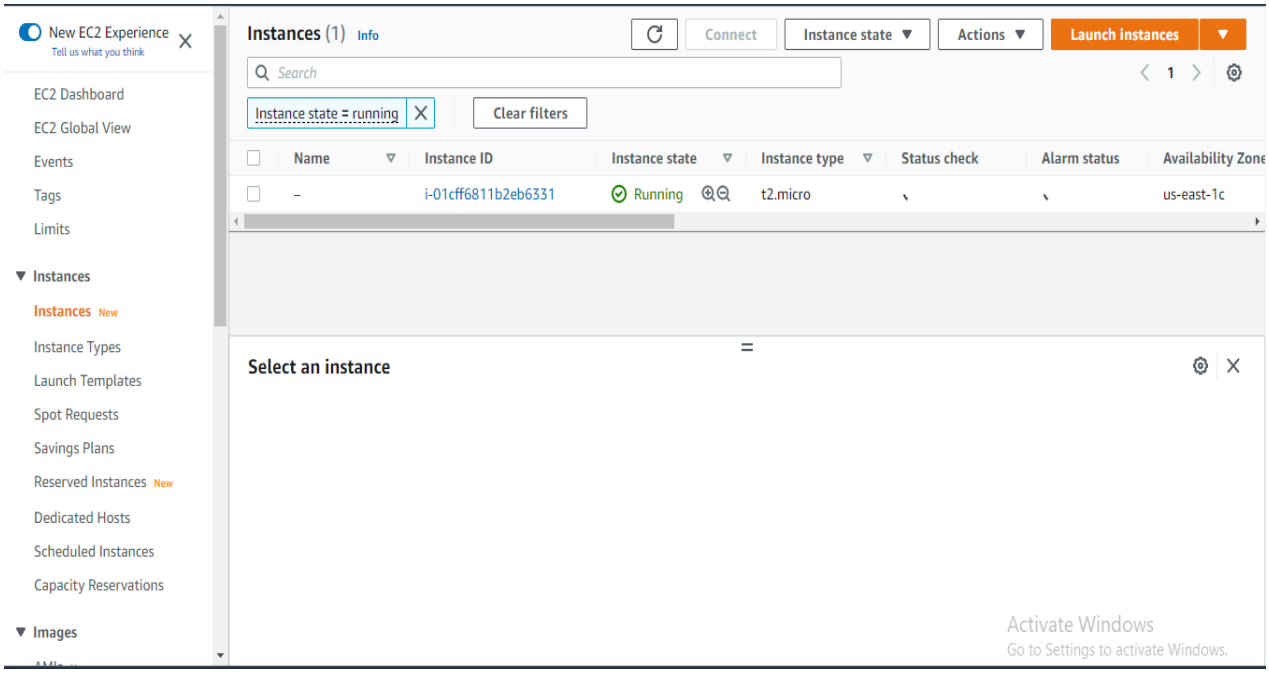
7. Choose Review and Launch.On the Review Instance Launch page, shown following, verify your settings and then choose Launch.



8. On the Select an existing key pair or create a new key pair page, shown following, choose Create a new key pair and set Key pair name. Choose Download Key Pair, and then save the key pair file on your local machine.

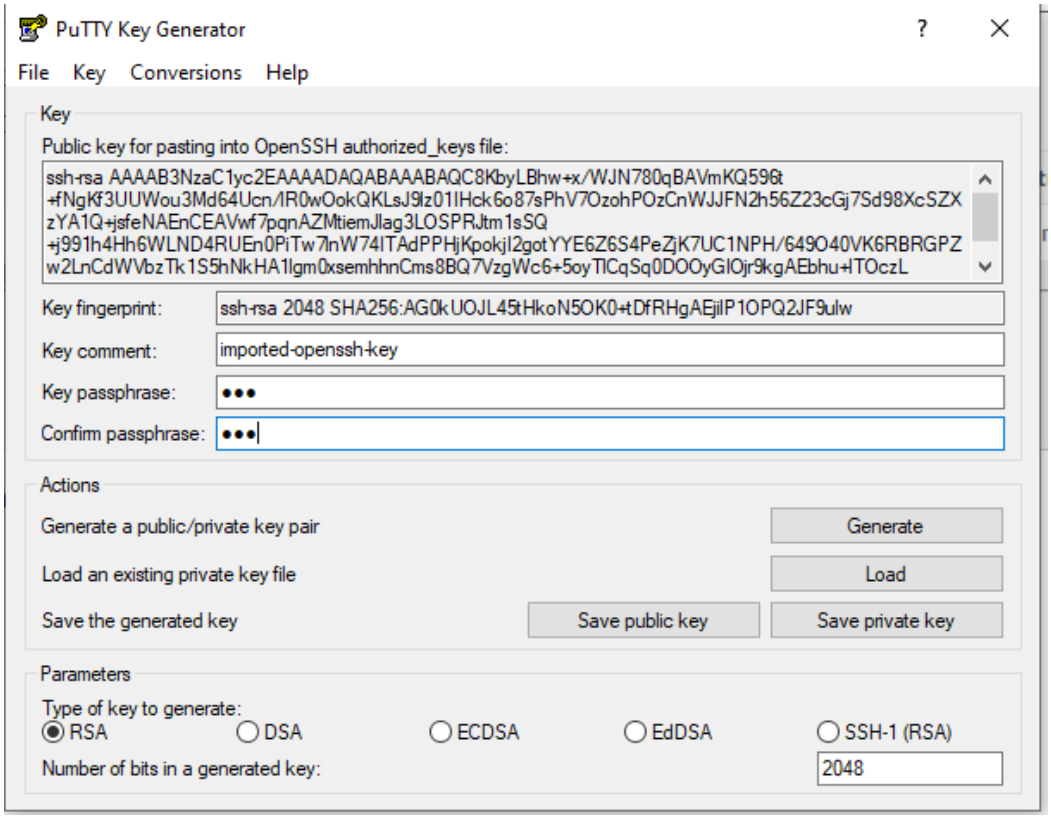


9. To launch your EC2 instance, choose Launch Instances.And you can check the status of in ec2 dashboard.


New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Search
1
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
–
i-01cff6811b2eb6331
Running
t2.micro
us-east-1c
Select an instance
Activate Windows
Go to Settings to activate Windows.

To connect to your EC2 instance with the help of putty

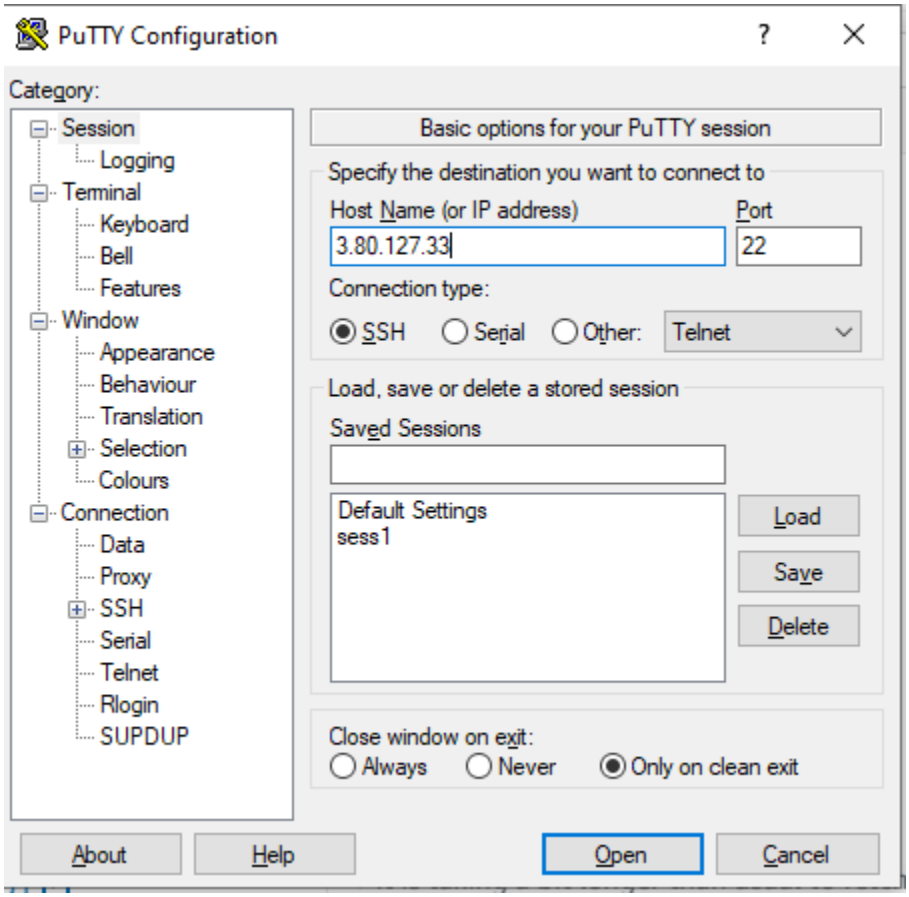
1 . Open puttygen and load the key you downloaded during the launchin of ec2 instance and generate private key and save private key to local machine.

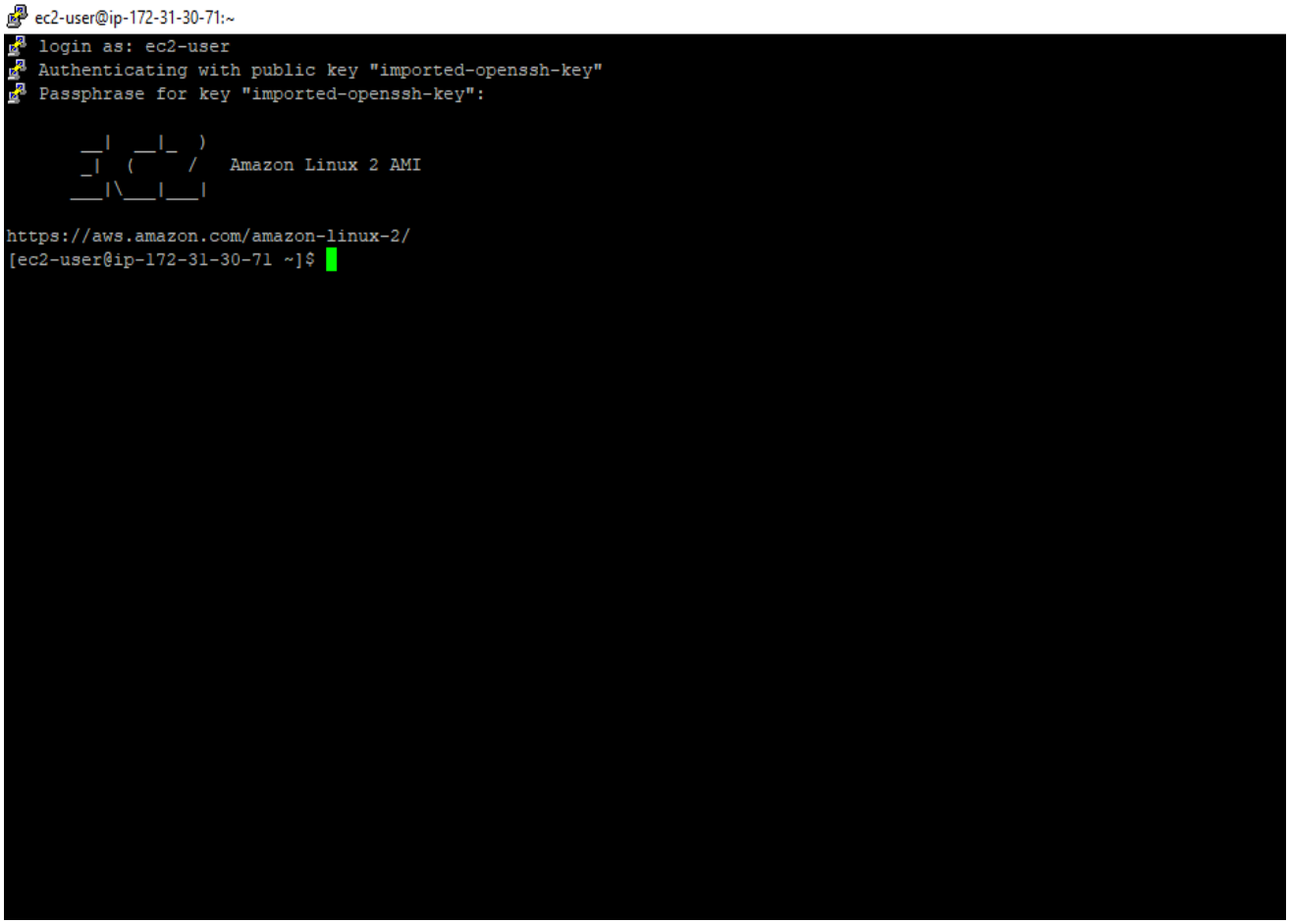


2. Open putty application and paste the public ipv4 address of the ec2 instance in the putty and then go to SSH->Auth on the right side and upload the ppk file which is downloaded in the previos step and then click on the open button.

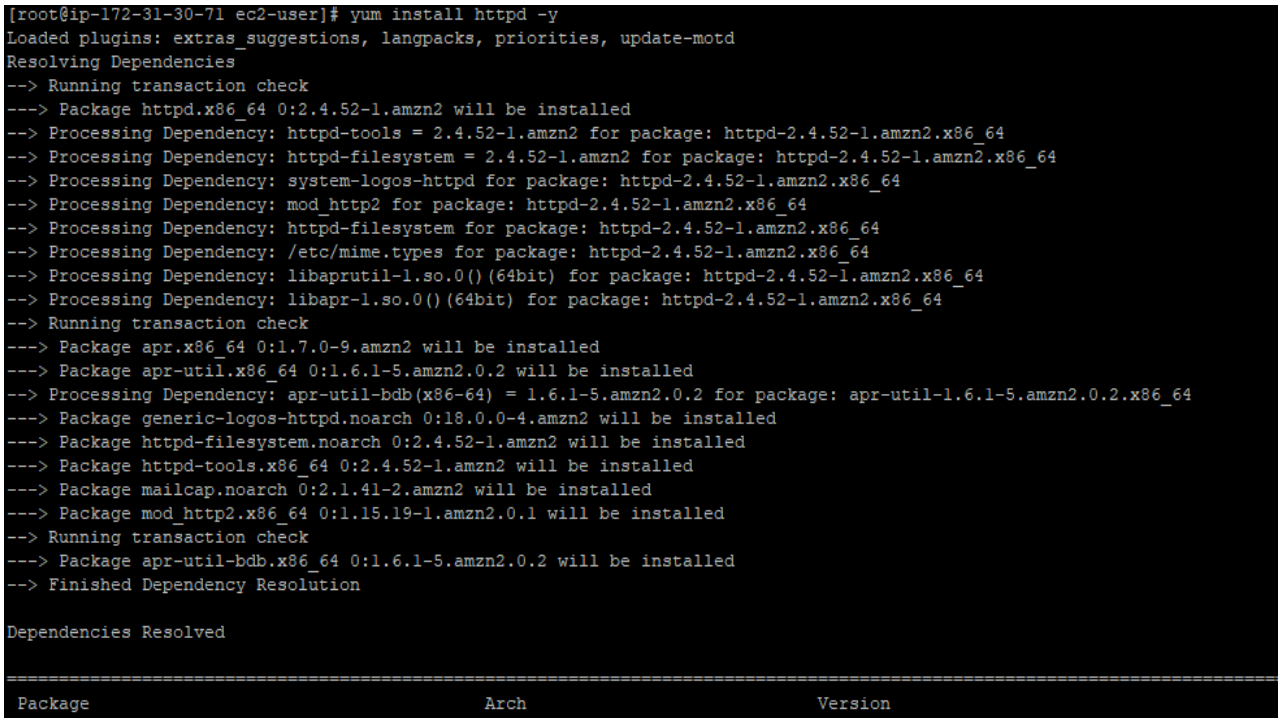
2.1 login as :- ec3-user

2.2 And write the same passphrase you created in step1(puttyGen) and hit enter.


PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
3.80.127.33
22
Connection type:
SSH
Serial
Other:
Telnet
Load, save or delete a stored session
Saved Sessions
Default Settings
sess1
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel


ec2-user@ip-172-31-30-71:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Passphrase for key "imported-openssh-key":
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-30-71 ~]$

3. To run the static website on ec2 instance follow following commands
    3.1 **sudo su**(To go into the the root directory of your linux instance.)
    3.2 **yum update -y(**to update all the resources in the instances.)
    3.3 **yum install httpd -y(**to install the httpd service on the machine)
    3.4 **pwd**(prints the current working directory path)
    3.5 **cd /var/www/html**
    3.6 **wget** (link of s3 zip file which have all the code of html and css)
    3.7 **unzip file_name.zip(**to unzip the file in the instance)
    3.8 **ls(**to check all the files present in the folder)
    3.9 **service httpd start(**to start the httpd service to host the website on the ec2 instance).



```
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-18-1 ~]$ sudo su
[root@ip-172-31-18-1 ec2-user]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[root@ip-172-31-18-1 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.52-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.52-1.amzn2 for package: httpd-2.4.5
2-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.52-1.amzn2 for package: httpd-
2.4.52-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.52-1.amzn2.
x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.52-1.amzn2.x8
6_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.52-1.amzn2.x86
_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.52-
1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.52-1.am
zn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package:
 apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.52-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.52-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
```

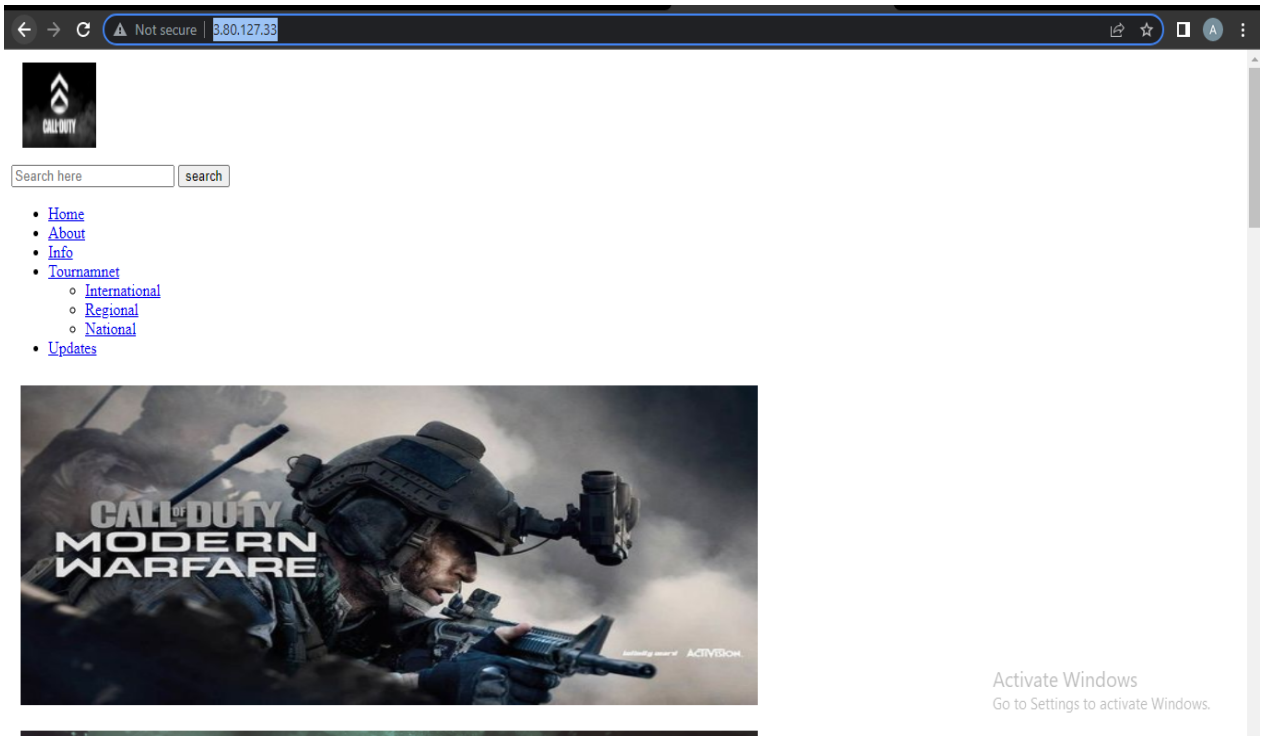
root@ip-172-31-82-141:/var/www/html

```
  httpd-filesystem.noarch 0:2.4.52-1.amzn2
  httpd-tools.x86_64 0:2.4.52-1.amzn2
  mailcap.noarch 0:2.1.41-2.amzn2
  mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-82-141 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-82-141 ec2-user]# cd /var/www/html
[root@ip-172-31-82-141 html]# ls
[root@ip-172-31-82-141 html]# wget https://amitbucket123.s3.amazonaws.com/wb.zip
--2022-03-29 18:45:19--  https://amitbucket123.s3.amazonaws.com/wb.zip
Resolving amitbucket123.s3.amazonaws.com (amitbucket123.s3.amazonaws.com)... 52.
217.109.156
Connecting to amitbucket123.s3.amazonaws.com (amitbucket123.s3.amazonaws.com)|52
.217.109.156|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1936 (1.9K) [application/zip]
Saving to: 'wb.zip'

100%[======================================>] 1,936       --.-K/s   in 0s

2022-03-29 18:45:19 (81.7 MB/s) - 'wb.zip' saved [1936/1936]

[root@ip-172-31-82-141 html]# ls
wb.zip
[root@ip-172-31-82-141 html]# unzip wb.zip
Archive:  wb.zip
   creating: css/
  inflating: css/styles.css
  inflating: contactme.html
  inflating: index.html
 extracting: mysite
[root@ip-172-31-82-141 html]# ls
contactme.html  css  index.html  mysite  wb.zip
[root@ip-172-31-82-141 html]# pwd
/var/www/html
[root@ip-172-31-82-141 html]# service httpd.service
The service command supports only basic LSB actions (start, stop, restart, try-r
estart, reload, force-reload, status). For other actions, please try to use syst
emctl.
[root@ip-172-31-82-141 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-82-141 html]#
```

4. After successful start you get a message ‘Redirecting to start httpd.service

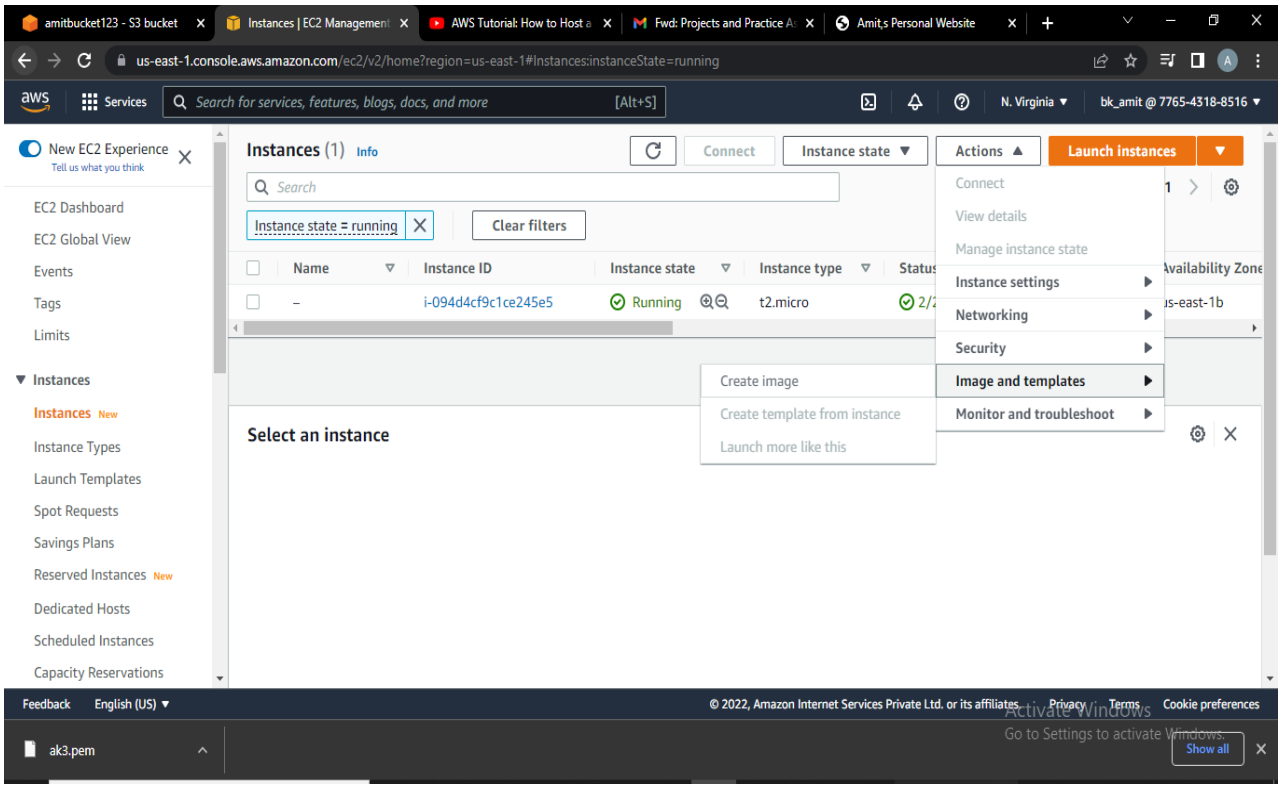
Now you can copy your instance public ipv4 address and paste in the browser and your website launched successfully on the ec2 instances.

Final snapshot of launched website on ec2 instance(linux)

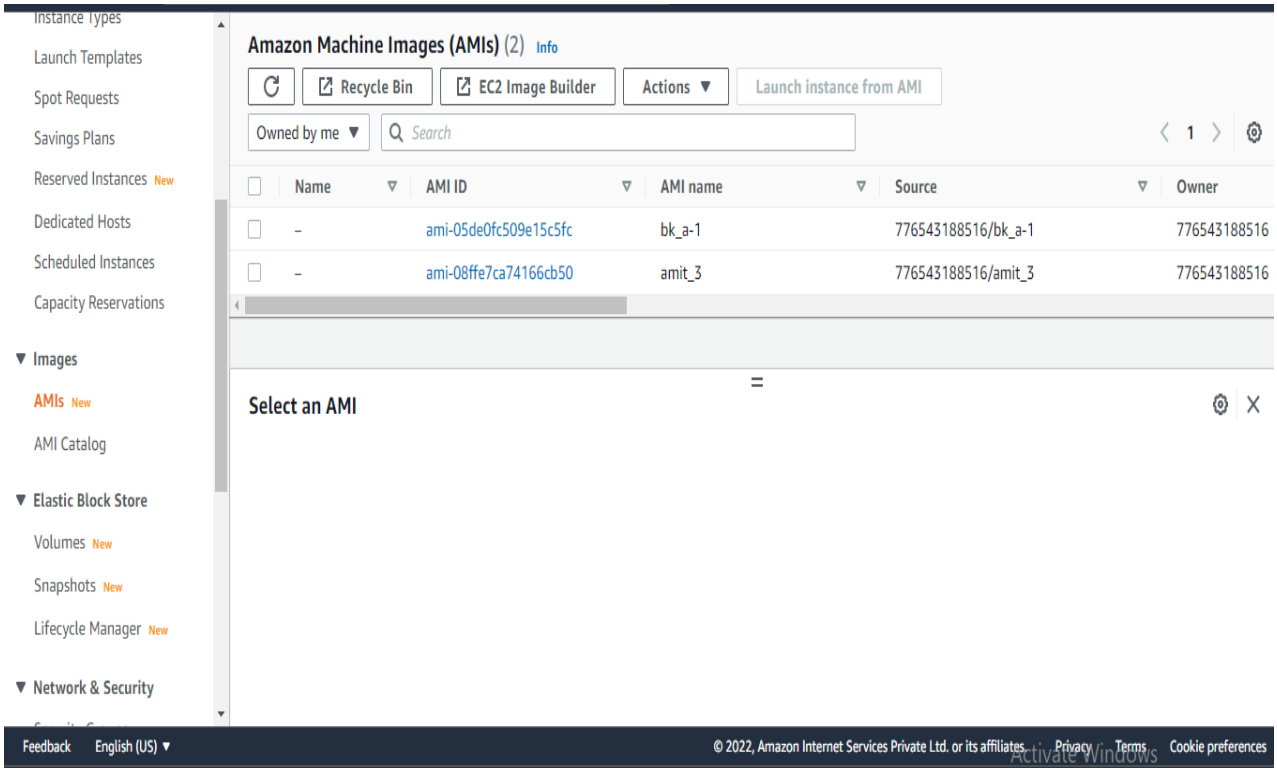


To create the AMI or snapshot of your instance.

1. Choose your instance for which you want to create and AMI(Amazon Machine images).Later on you can launch the instance of same configuration by choosing the option launch by AMI.



2. After creating the AMI you can seee your all AMI by clickin AMIs on the right side and later on you can launch instances by these AMIs.


Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
Lifecycle Manager New
Network & Security
Amazon Machine Images (AMIs) (2) Info
Recycle Bin
EC2 Image Builder
Actions
Launch instance from AMI
Owned by me
Search
1
Name
AMI ID
AMI name
Source
Owner
– ami-05de0fc509e15c5fc bk_a-1 776543188516/bk_a-1 776543188516
– ami-08ffe7ca74166cb50 amit_3 776543188516/amit_3 776543188516
Select an AMI
Feedback
English (US)
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences
Activate Windows