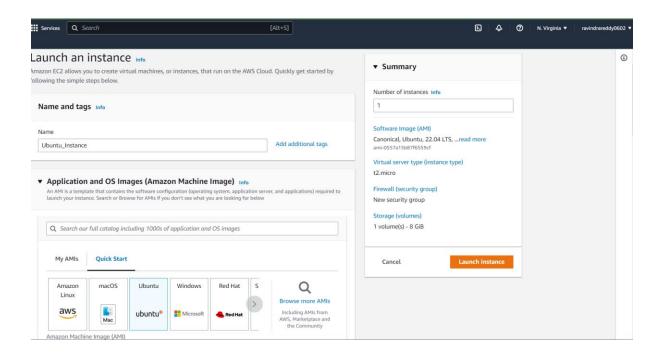
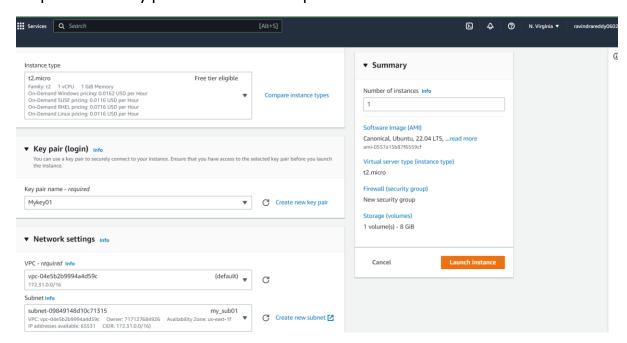
EC2 Assignment:

Step1: Click on Launch Instance and give instance name.

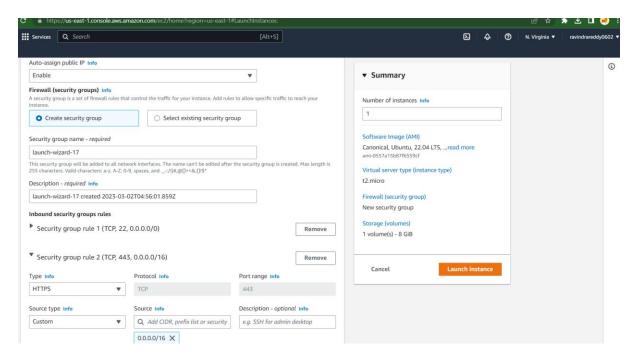
Step 2: select an AMI image(Ubuntu)



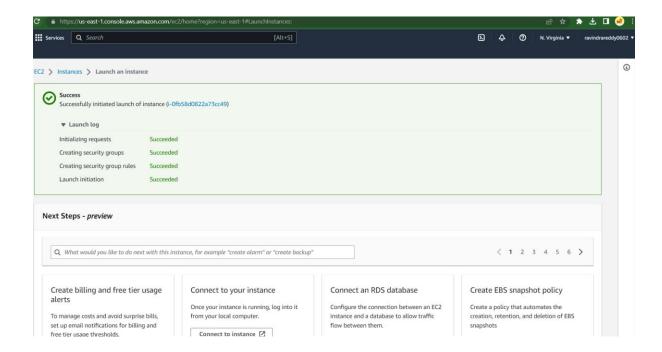
Step3: create key pair and download .pem file

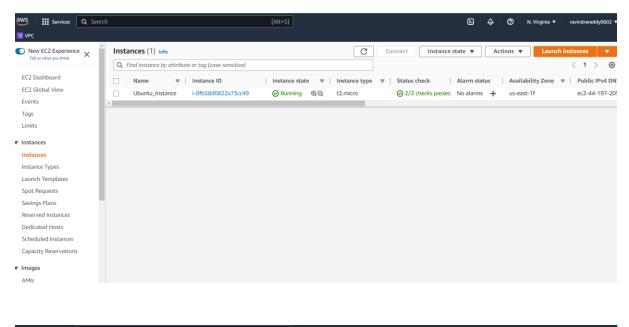


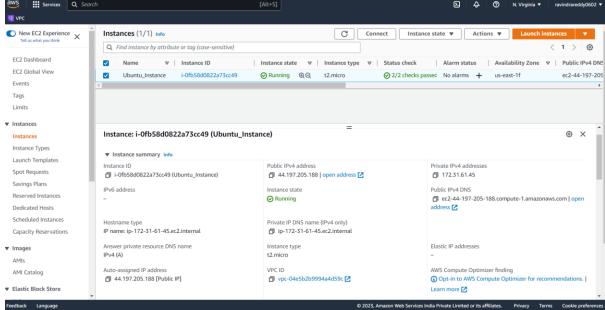
Step4: Select Default VPC and enable the Public Access.



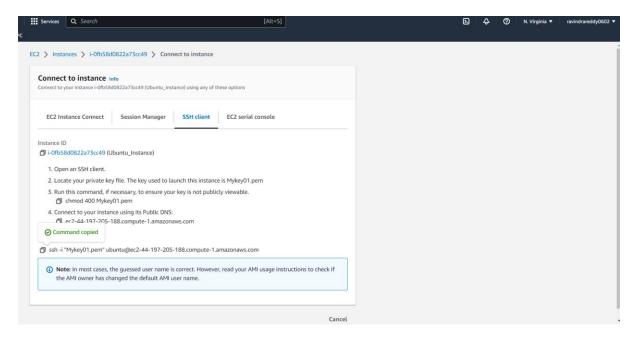
Step5:Click on View Instances.







Step 6 : Click on Connect and go to SSH client and copy the SSH command.



Step 7: Change to the Directory where the .pem file is present.

Step 8: type ssh and paste the copied command.

```
C:\Usera\Paxin\Downloads>sh -1 \text{"Nyhey01.pem" ubuntu@ec2-44-197-205-188. compute-1.amazonams.com
The authenticity of host 'ec2-44-197-205-188. compute-1.amazonas.com (44.197.205.188)' can't be established.
ED25519 key fingerprint is SHAZ56:k888fMoGicuQArpszvAyHeKMcdJQkfV96SqvJ0KNqio.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Amaning: Permanently added 'ec2-44-197-205-188. compute-1.amazonas.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.491.1 LTS (GMU/Linux 5.15.0-1028-aws x86_64)

* Documentiation: https://landscape.canonical.com
* Documentiation: https://landscape.canonical.com
* Support: https://landscape.canonical.com
* Support: https://landscape.canonical.com
* System information as of Thu Mar 2 09:13:48 UTC 2023

System load: 0.0808078125 Processes: 95
Usage of /: 19.8% of 7.57GB Users logged in: 0
Memory usage: 19%

Expanded Security Maintenance for Applications is not enabled.

O updates can be applied immediately.

Enable ESA Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO MARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <commando".

See "man sudo_root" for details.
```

Step 9: install node js by using \$apt install nodejs

```
distribution of the control of the c
```

```
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main mad64 c-n-f Metadata [392 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [135 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [90.4 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [582 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [90.4 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [694 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [90.4 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [90.6 B]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [99.6 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Fetched 26.1 MB in 5s (5595 kB/s)
Reading package lists... Done
Building dependency tree... Done
Beading state information... Done
36 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-61-45:~$
```

```
C:\Users\ravin\Downloads>ssh ssh -i "Mykey01.pem" ubuntu@ec2-44-197-205-188.compute-1.amazonaws.com
ssh: Could not resolve hostname ssh: No such host is known.

C:\Users\ravin\Downloads>ssh -i "Mykey01.pem" ubuntu@ec2-44-197-205-188.compute-1.amazonaws.com
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-ams x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Management: https://lundscape.canonical.com
* Support: https://dunduc.com/advantage

System information as of Thu Mar 2 05:26:46 UTC 2023

System load: 0.0 Processes: 98
Usage of /: 22.4% of 7.57GB Users logged in: 1
Memory usage: 23% IPv4 address for eth0: 172.31.61.45

Swap usage: 0%

* Introducing Expanded Security Maintenance for Applications.
Receive updates to over 25,000 software packages with your
Ubuntu Pro subscription. Free for personal use.
https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

0 upgraded, 6 newly installed, 0 to remove and 36 not upgraded.
Need to get 13.7 MB of archives.
After this operation, 53.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.85.5+dfsg]-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.c
```

```
C:\Users\ravin\Downloads>ssh ssh -i "Mykey01.pem" ubuntu@ec2-44-197-205-188.compute-1.amazonaws.com
ssh: Could not resolve hostname ssh: No such host is known.

C:\Users\ravin\Downloads>ssh -i "Mykey01.pem" ubuntu@ec2-44-197-205-188.compute-1.amazonaws.com
Welcome to Ubuntu 22.04.1 LTS (GMU/Linux 5.15.0-1028-aws x86_64)

* Documentation: https://help.ubuntu.com
    * Management: https://landscape.canonical.com
    * Support: https://lubuntu.com/advantage

System information as of Thu Mar 2 05:26:46 UTC 2023

System information as of Thu Mar 2 05:26:46 UTC 2023

System load: 0.0 Processes: 98
    Usage of /: 22.4% of 7.57GB Users logged in: 1
    Memory usage: 23% IPv4 address for eth0: 172.31.61.45

Swap usage: 0%

* Introducing Expanded Security Maintenance for Applications.
Receive updates to over 25,000 software packages with your
Ubuntu Pro subscription. Free for personal use.
    https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

0 upgraded, 6 newly installed, 0 to remove and 36 not upgraded.

Need to get 13.7 MB of archives.

After this operation, 53.9 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Cet:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/nain amd64 javascript-common all 11+nmu1 [5936 B]

Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/nain amd64 libc-ares2 amd64 1.18.1-lbuild1 [44.9 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libc-ares2 amd64 1.2.22.9-dfsg-lubuntu3 [2409 kB]

Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libc-ares2 amd64 1.2.22.9-dfsg-lubuntu3 [2409 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs amd64 1.2.22.9-dfsg-lubuntu3 [2409 kB]

Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs amd64 12.22.9-dfsg-lubuntu3 [2409 kB]

Get:2 http://us-east-1.ec3.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs amd64 12.22.9-dfsg-lubuntu3 [2409 kB]

Get:2 http://us-east-1.ec3.
```

```
whuntuble-177-31-61-45:-$ sudo apt install npm
Reading package Lists... Done
Building dependency tase... Done
The following additional packages will be installed:
The following additional packages will be packed by the following the package of the following additional packages will be installed:
```

```
After this operation, GPT MB of additional disk space will be used.

Do you want to continue? [Y/n]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy/main and64 hicolor-icon-theme all 0.17-2 [9976 B]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-udates/main and64 libgdg-pixbuf2.0-common all 2.42.84fsg-lubuntu0.2 [5530 B]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy/main and64 libjpeg and64 2.10-2-0buntu0 [134 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy/main and64 libjpeg and64 2.10-2 [70.9 kB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy/main and64 libjpeg and64 2.1-3.1ubuntu0 2.204.1 [29.2 kB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-updates/main and64 libjpeg and64 2.1-3.1ubuntu0 2.204.1 [29.2 kB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-updates/main and64 libjpeg and64 2.2-2 achive.ubuntu0.2 [318 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-updates/main and64 libjpeg and64 2.2-2 achive.ubuntu0.2 [318 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-main and64 libjpeg and64 2.2-2 achive.ubuntu0.2 [318 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-main and64 libjpeg-pixbuf-2.0 a and61 2.42.2 Midge-pixbuf-2.0 achive.ubuntu0.2 [318 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-main and64 libjpeg-pixbuf-2.0 achive.ubuntu0.2 [324 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-main and64 libjpeg-pixbuf-2.0 achive.ubuntu0.2 [324 MB]

Get: http://us-cast-lec2.archive.ubuntu.com/ubuntu jammy-main an
```

```
Get:39 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libatomic1 amd64 l12.1.0-2ubuntu1-22.04 [10.4 k8]  
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libatan6 amd64 l12.1.0-2ubuntu1-22.04 [2284 k8]  
Get:41 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libatan6 amd64 l12.1.0-2ubuntu1-22.04 [2262 k8]  
Get:42 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libatan6 amd64 l12.1.0-2ubuntu1-22.04 [2262 k8]  
Get:43 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libubsan1 amd64 l12.1.0-2ubuntu1-22.04 [2262 k8]  
Get:44 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libubsan1 amd64 l12.1.0-2ubuntu1-22.04 [2184 k8]  
Get:45 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libubsan1 amd64 l13.0-1ubuntu1-22.04 [2187 k8]  
Get:46 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libubsan1 l
```

```
Get:308 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-string-width all 4.2.3*~cs13.2.3-1 [11.4 kB]
Get:308 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-string-width all 4.2.3*~cs13.2.3-1 [11.4 kB]
Get:308 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-sude-align all 1.3.3-4 [4228 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-sude-align all 1.3.3-4 [4228 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-pump all 4.0.2-1 [16.3 kB]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-pump all 3.0.0-2 [3754 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-pump all 3.0.0-2 [3754 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [3828 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [5852 B]
Get:318 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [5852 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.1-1 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.0-2 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.0-2 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.0-2 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelable all 3.0.0-2 [388 B]
Get:328 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 node-jon-ancelabl
```

Step 10: check the status of node js by using node -v command.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-61-45:~$ node -v
v12.22.9
ubuntu@ip-172-31-61-45:~$
```

