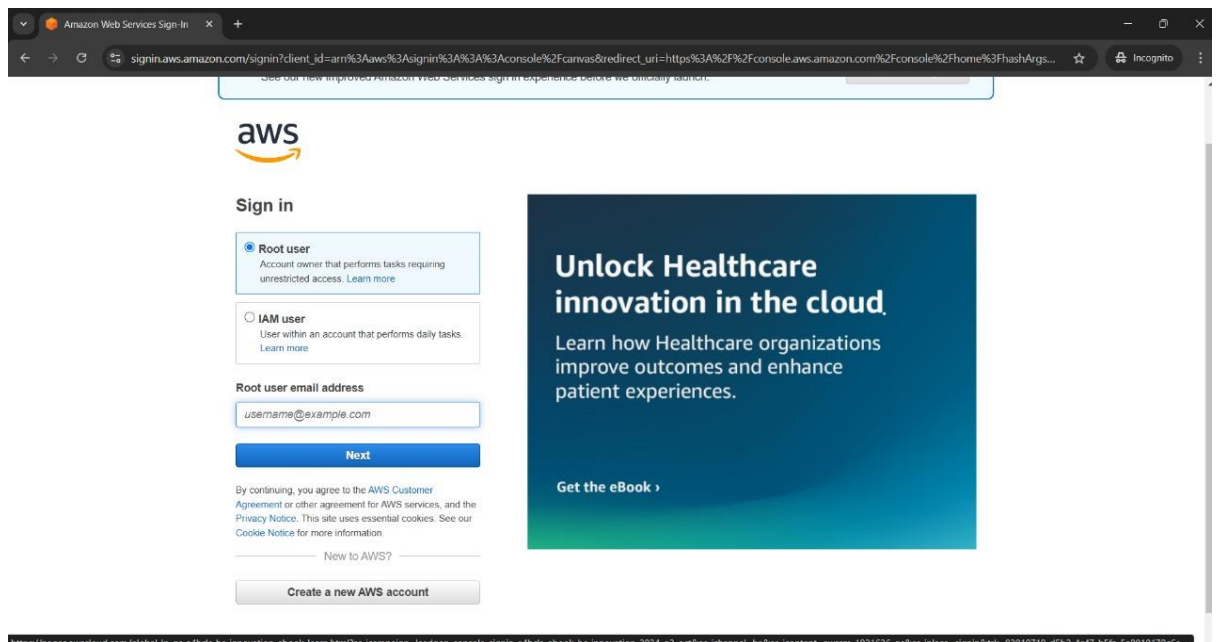
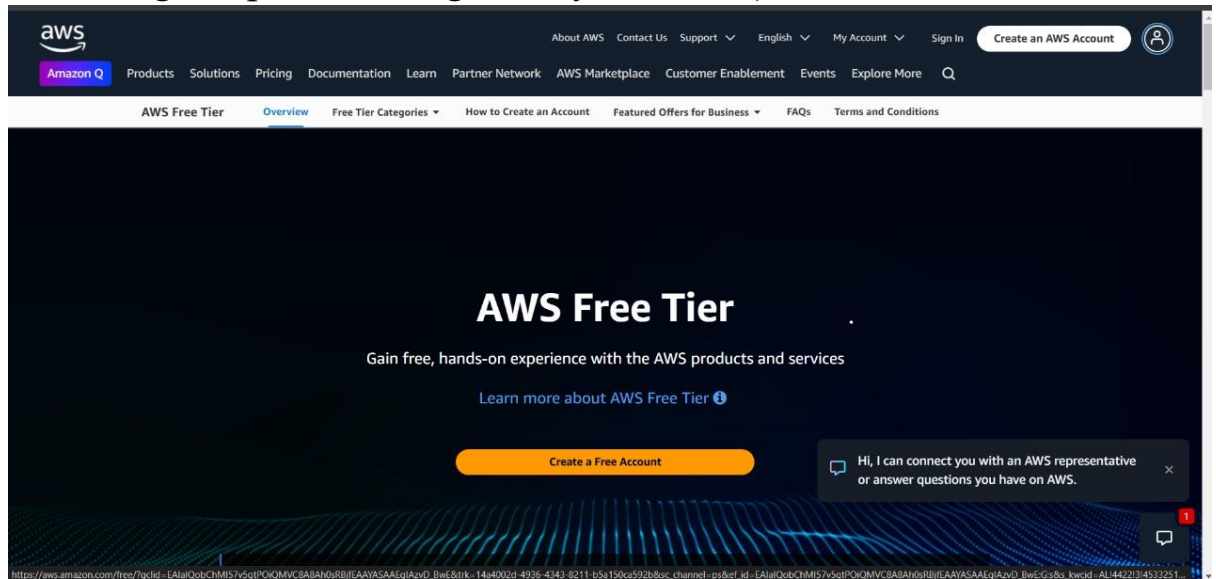
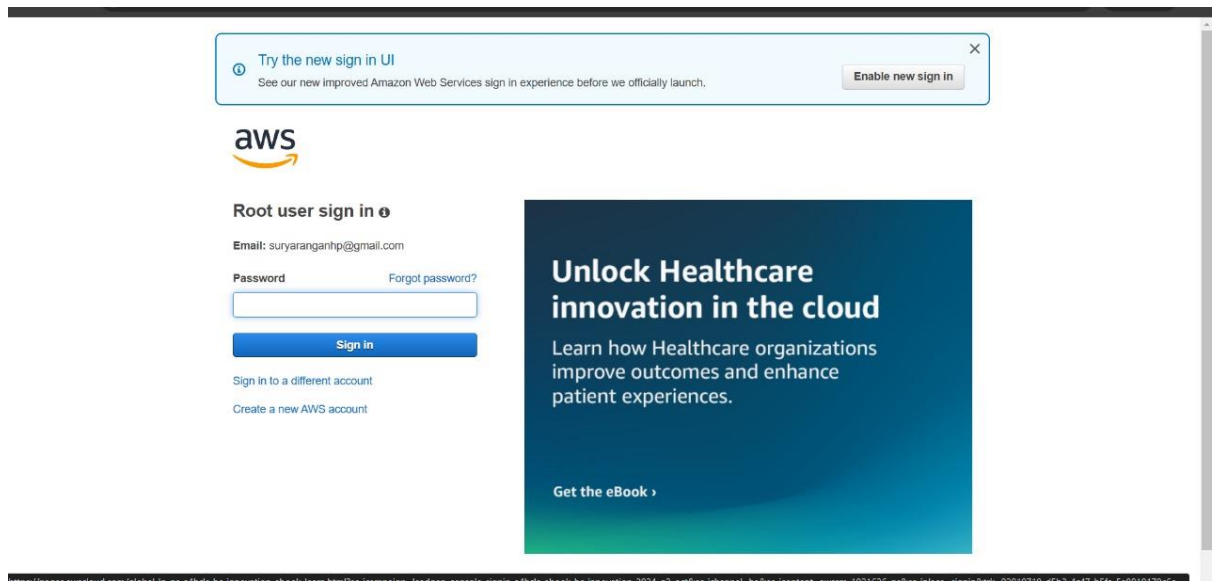


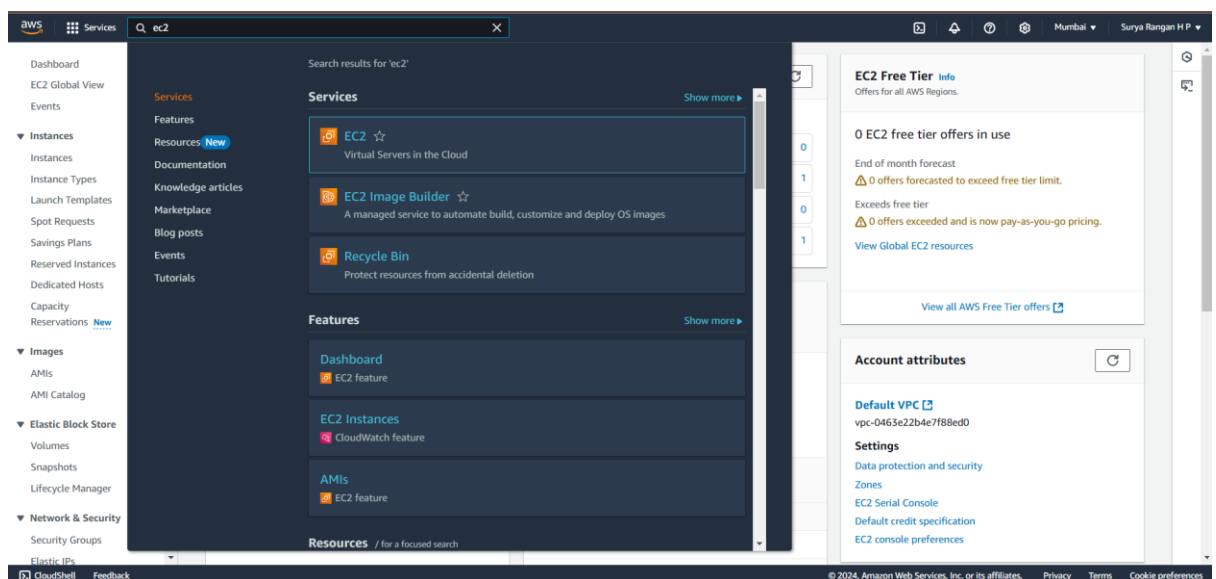
# DOCUMENTATION ON HOSTING THE WEBSITE ON AWS (AMAZON WEB SERVICES) USING GITHUB REPOSITORY

1. Login to your AWS Account (If not create a new account by following the procedures given by the AWS).



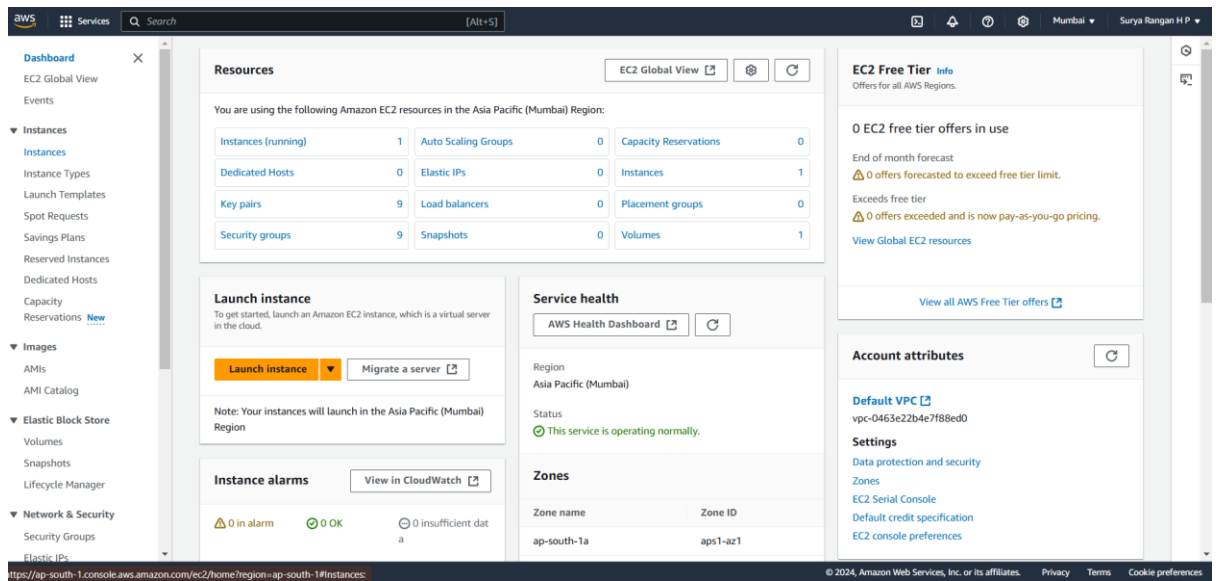


2. After login, you will see the dashboard.

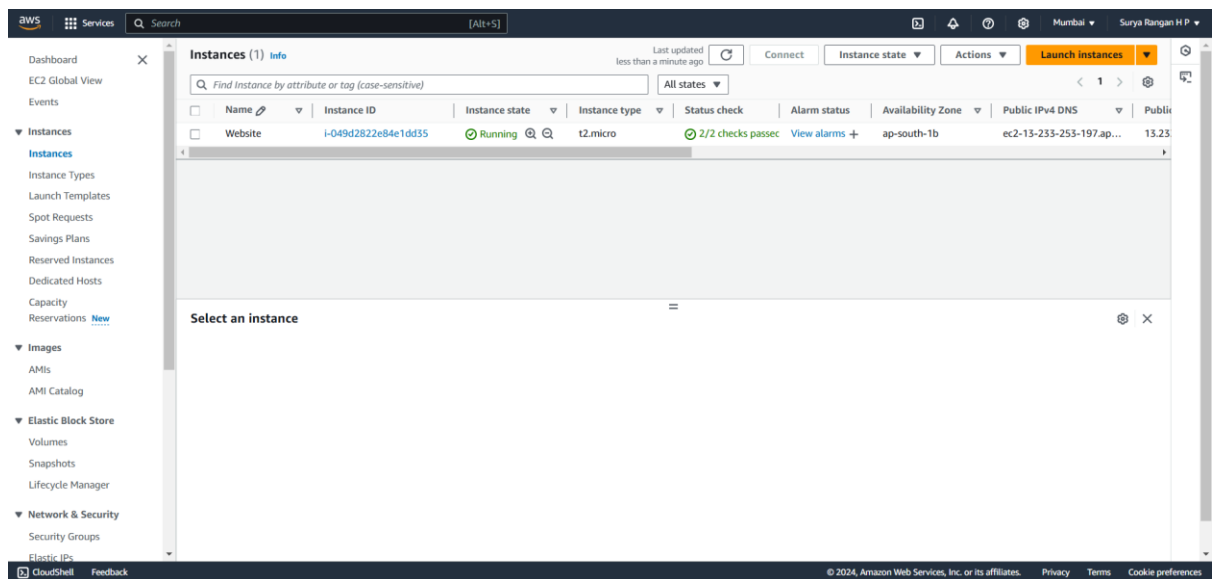


3. In the search bar, search for EC2 and click.

4. In the left bar, select instances.



## 5. Select launch instance.



6. In the “Name and Tags” field, select and type the name as you wish.

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The 'Name and tags' section has a text input field with the placeholder 'e.g. My Web Server' and an 'Add additional tags' link. The 'Application and OS Images (Amazon Machine Image)' section includes a search bar with the text 'Search our full catalog including 1000s of application and OS images'. Below the search bar are tabs for 'Recents' and 'Quick Start'. The 'Quick Start' tab is active, showing a grid of AMI icons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. A 'Browse more AMIs' link is also present. On the right, the 'Summary' section shows 'Number of instances' set to 1, 'Virtual server type (instance type)' as t2.micro, 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. A 'Free tier' notification box is displayed, stating that the first year includes 750 hours of t2.micro (or t3.micro) usage. At the bottom right, there are 'Cancel' and 'Launch instance' buttons, along with a 'Preview code' link.

7. Scroll down and in the Key Pair (Login), click on “Create new key pair” and type the name as you want select “create key pair” and a .pem file will be downloaded.

The screenshot shows the 'Key pair (login)' section of the AWS Management Console. It includes a descriptive text: 'You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.' Below this is a label 'Key pair name - required' and a dropdown menu with the text 'Select'. To the right of the dropdown is a 'Create new key pair' button with a circular arrow icon.

## Create key pair



### Key pair name

Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

### Key pair type



RSA

RSA encrypted private and public key pair



ED25519

ED25519 encrypted private and public key pair

### Private key file format



.pem

For use with OpenSSH



.ppk

For use with PuTTY



When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

## 8. Scroll down and select launch instance

The screenshot shows the 'Launch Instance' wizard in the AWS Management Console. The 'Configure storage' step is active, showing a single volume of 8 GiB gp3 type, designated as the root volume. A warning box indicates that rules with source 0.0.0.0/0 allow all IP addresses to access the instance. The 'Summary' step on the right shows 1 instance of type t2.micro with a new security group and 8 GiB of storage. A 'Free tier' box explains the benefits for new users. At the bottom, there are 'Cancel' and 'Launch instance' buttons, along with a 'Preview code' link.

☐ Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet  
To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ **Configure storage** Info Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

📘 Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

📘 Click refresh to view backup information  
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems Edit

► **Advanced details** Info

▼ **Summary**

Number of instances Info  
1

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

📘 **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

📄 Preview code

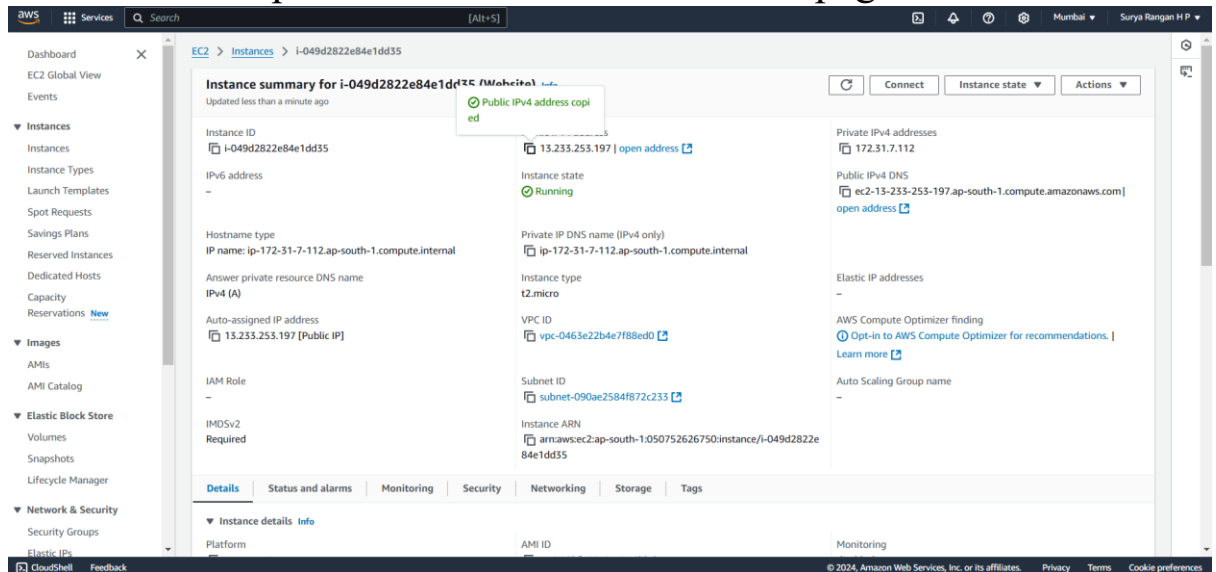
9. After that EC2 -> instances again, to see the instance you created. Make sure that your instance is running. If not, wait for some time until it runs.

The screenshot shows the 'Instances' page in the AWS Management Console. The instance 'Website' with ID 'i-049d2822e84e1dd35' is shown in a 'Running' state. The table includes columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, Public IPv4 DNS, and Public IP. Below the table, there is a 'Select an instance' section.

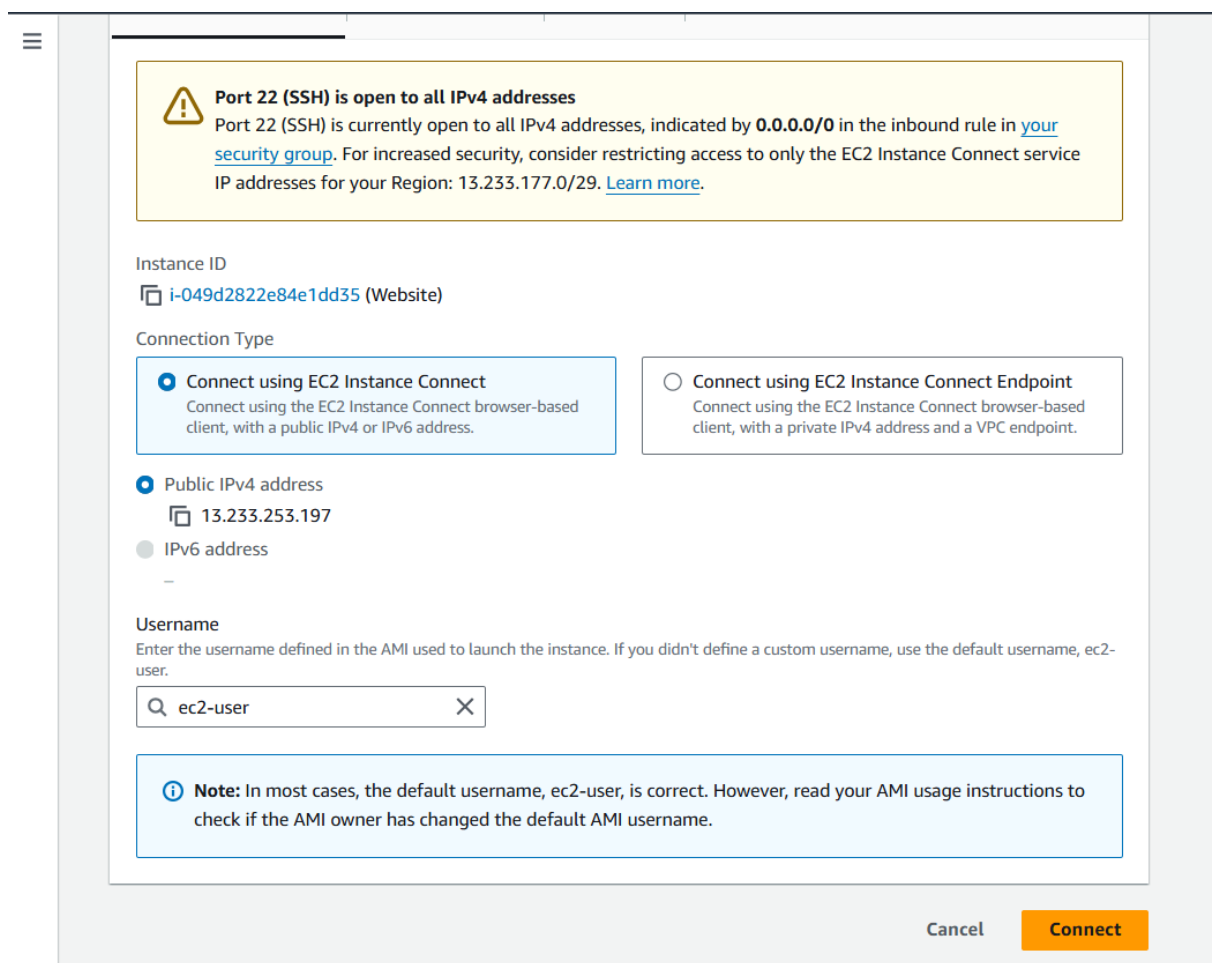
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
Website	i-049d2822e84e1dd35	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1b	ec2-13-233-253-197.ap...	13.233...

Select an instance

10. In the instances table, select the instance you created, go down and copy the Auto assigned Ip address and open a new tab in browser and paste it and come back to AWS page.



11. Select Connect at the top. You will go to the new page and again select connect there.



12. You will get an Amazon CLI.
13. Type the following commands:
  1. `sudo su -`
  2. `yum update -y`
  3. `yum install -y httpd`
  4. `systemctl status httpd`
  5. `mkdir aws_anyfilename`
  6. `cd aws_anyfilename`



```
stalling : mod_http2-1.15.19-1.amzn2.0.1.x86_64
stalling : httpd-2.4.54-1.amzn2.x86_64
rifying : apr-util-1.6.1-5.amzn2.0.2.x86_64
rifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
rifying : httpd-tools-2.4.54-1.amzn2.x86_64
rifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64
rifying : httpd-2.4.54-1.amzn2.x86_64
rifying : mailcap-2.1.41-2.amzn2.noarch
rifying : generic-logos-httpd-18.0.0-4.amzn2.noarch
rifying : httpd-filesystem-2.4.54-1.amzn2.noarch
rifying : apr-1.7.0-9.amzn2.x86_64

alled:
tpd.x86_64 0:2.4.54-1.amzn2

endency Installed:
r.x86_64 0:1.7.0-9.amzn2      apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2      generic-logos-httpd.noarch 0:18.0.0-4.amzn2
tpd-filesystem.noarch 0:2.4.54-1.amzn2      httpd-tools.x86_64 0:2.4.54-1.amzn2      mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

lete!
t@ip-172-31-53-116 ~]$ systemctl status httpd
tpd.service - The Apache HTTP Server
oaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
ctive: inactive (dead)
Docs: man:httpd.service(8)
t@ip-172-31-53-116 ~]$ mkdir aws_assg3
t@ip-172-31-53-116 ~]$ cd aws_assg3
t@ip-172-31-53-116 aws_assg3]$
```

00faf9095abf70b57 (Portfolio-Website)

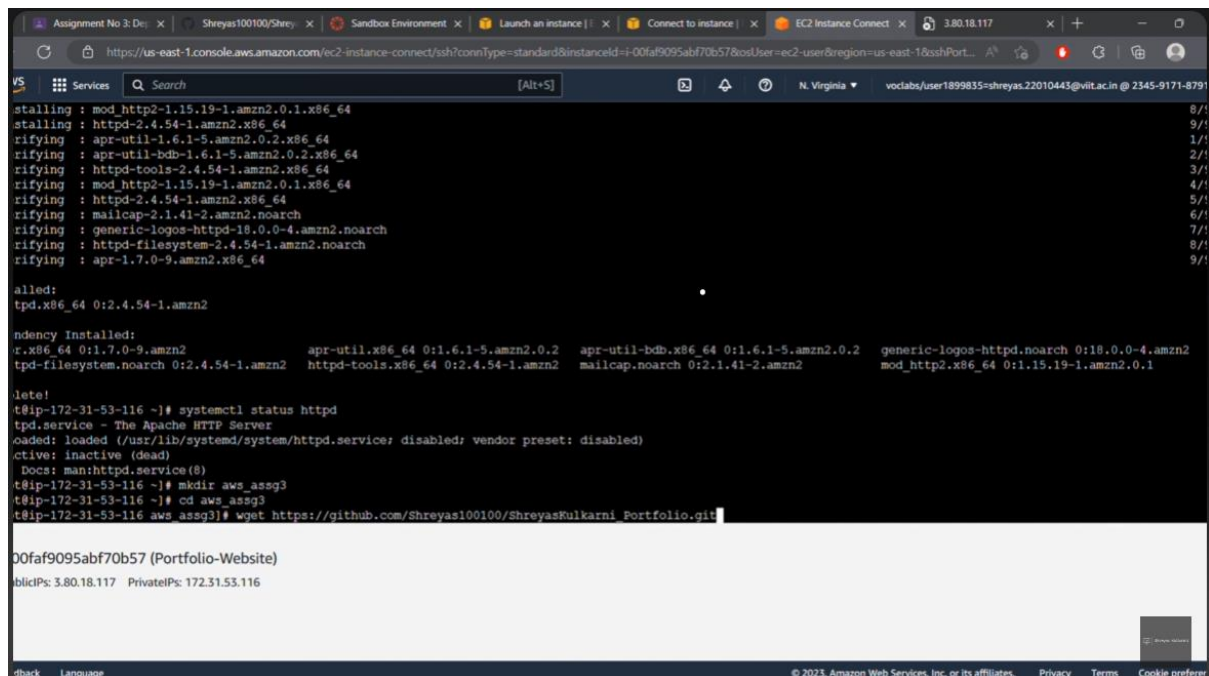
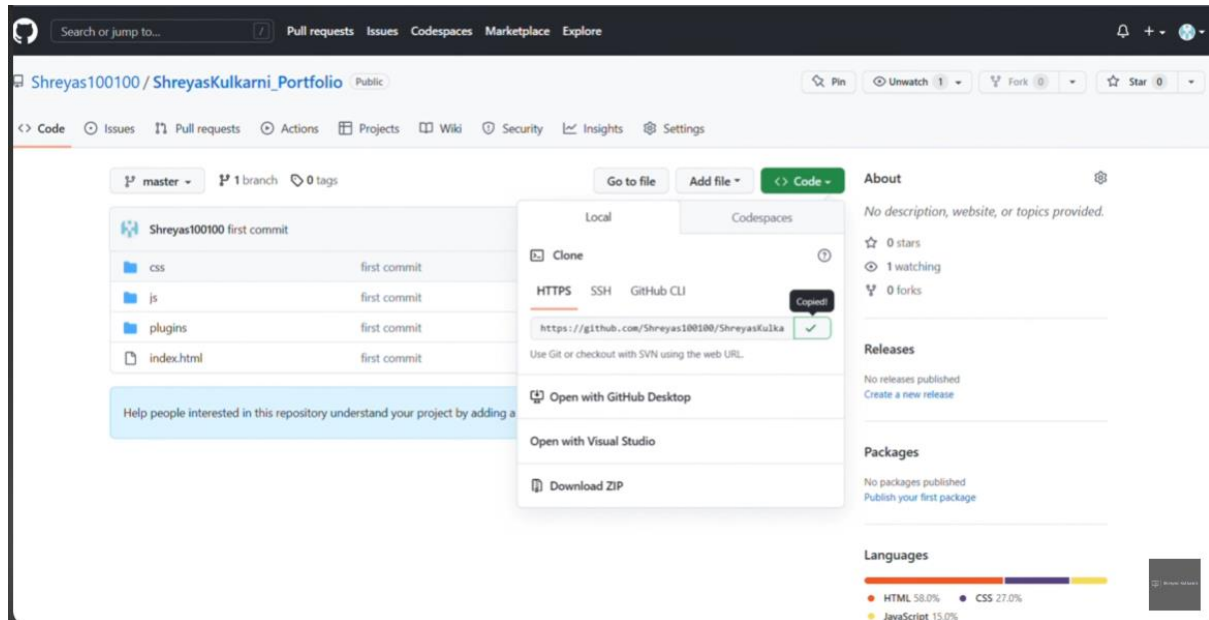
ublicIPs: 3.80.18.117 PrivateIPs: 172.31.53.116

dback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie prefer



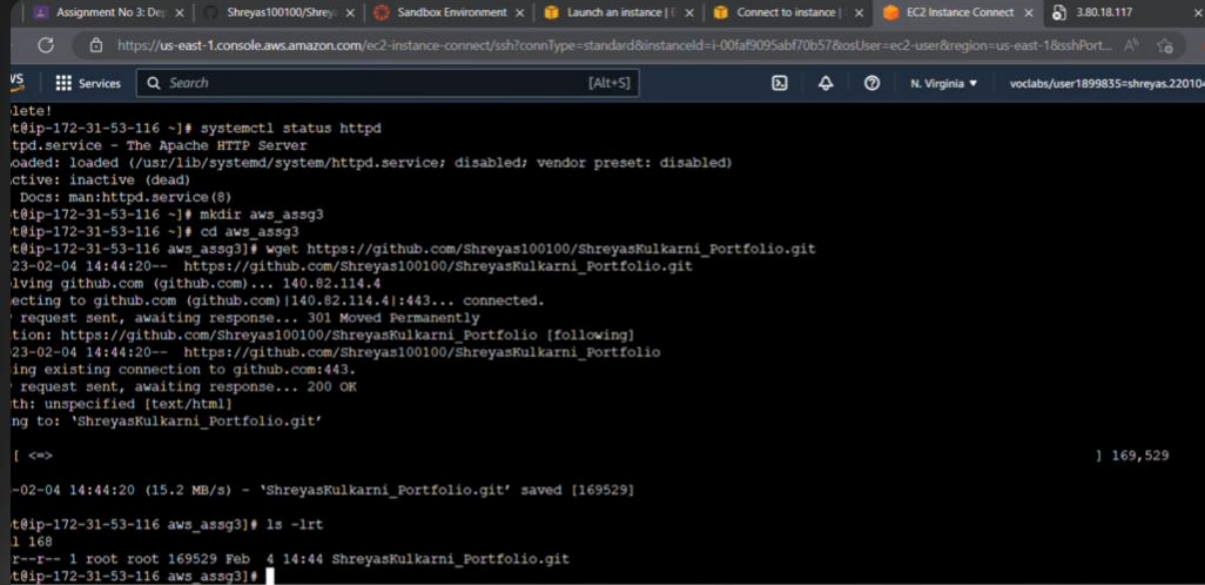
14. Open GitHub where you have the GitHub repository of your project. Select the repository and go to code and copy https link and type the following command

**wget “linkyouhavegot”**



15. Now continue with the commands

1. `ls -lrt`

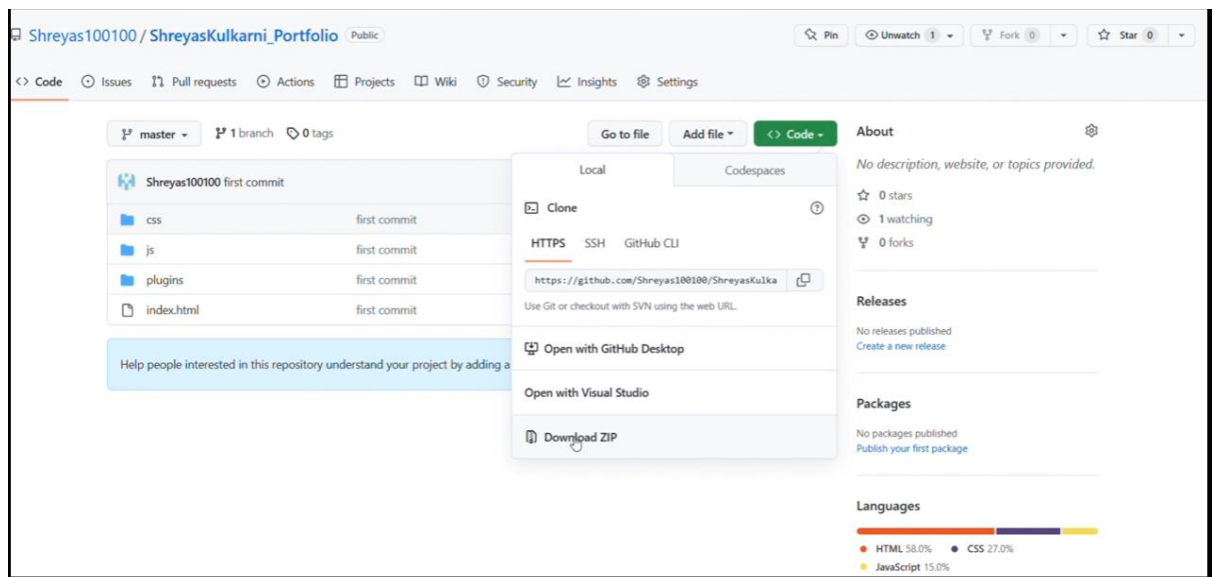


```
telet!
t@ip-172-31-53-116 ~]$ systemctl status httpd
tpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: inactive (dead)
Docs: man:httpd.service(8)
t@ip-172-31-53-116 ~]$ mkdir aws_assg3
t@ip-172-31-53-116 ~]$ cd aws_assg3
t@ip-172-31-53-116 aws_assg3]$ wget https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio.git
23-02-04 14:44:20-- https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio.git
Connecting to github.com (github.com)... 140.82.114.4
Connecting to github.com (github.com)|140.82.114.4|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio [following]
23-02-04 14:44:20-- https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio
Reusing existing connection to github.com:443.
HTTP request sent, awaiting response... 200 OK
Content-Length: unspecified [text/html]
Saving to: 'ShreyasKulkarni_Portfolio.git'

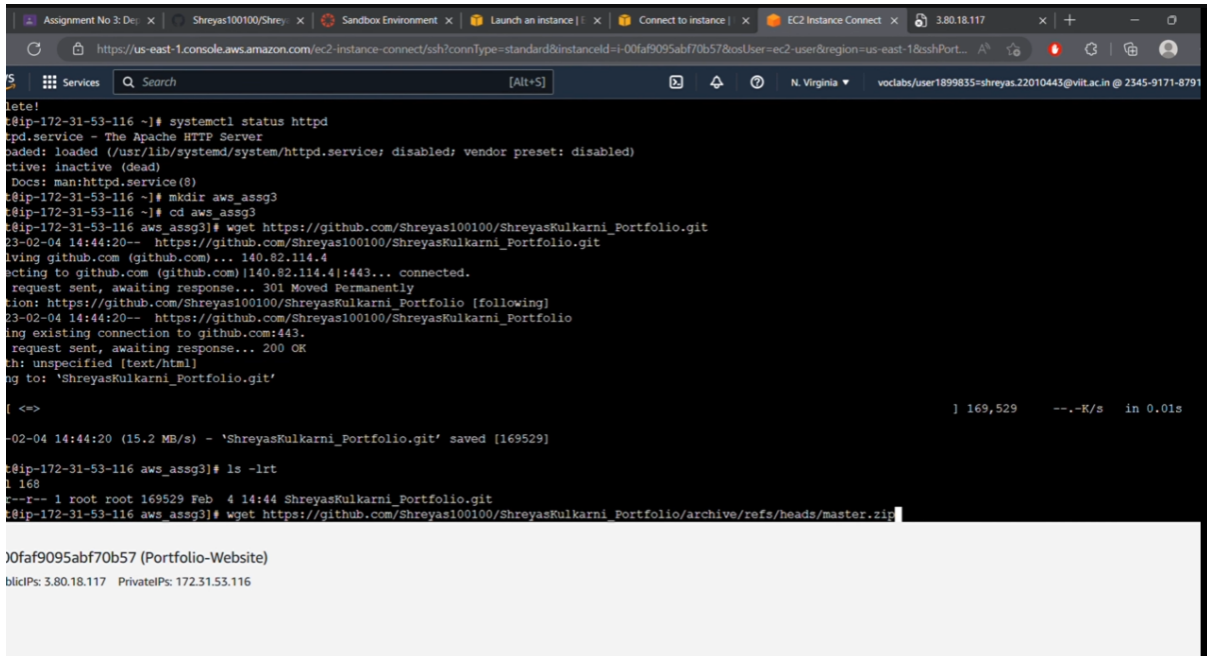
140.82.114.4:443: 169,529 KB [169,529 KB] 100%
t@ip-172-31-53-116 aws_assg3]$ ls -lrt
-r--r-- 1 root root 169529 Feb  4 14:44 ShreyasKulkarni_Portfolio.git
t@ip-172-31-53-116 aws_assg3]$
```

00faf9095abf70b57 (Portfolio-Website)  
Public IP: 3.80.18.117 Private IP: 172.31.53.116

16. Go to GitHub, select repository ->Code, right-click on Download ZIP and select “Copy link address.”

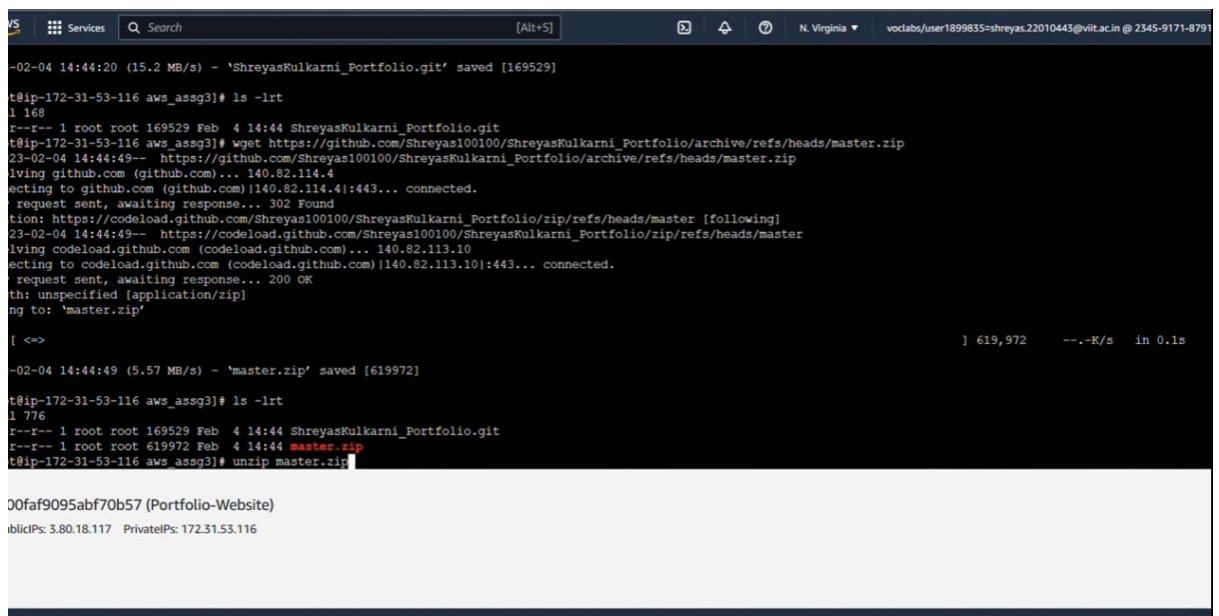


17. Type this  
wget “paste\_the zip\_link”



```
delete!  
t@ip-172-31-53-116 ~]$ systemctl status httpd  
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)  
Active: inactive (dead)  
Docs: man:httpd.service(8)  
t@ip-172-31-53-116 ~]$ mkdir aws_assg3  
t@ip-172-31-53-116 ~]$ cd aws_assg3  
t@ip-172-31-53-116 aws_assg3]$ wget https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio.git  
23-02-04 14:44:20-- https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio.git  
Connecting to github.com (github.com)|140.82.114.4|:443... connected.  
request sent, awaiting response... 301 Moved Permanently  
Location: https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio [following]  
23-02-04 14:44:20-- https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio  
Connecting to github.com (github.com)|140.82.114.4|:443... connected.  
request sent, awaiting response... 200 OK  
Content-Length: unspecified [text/html]  
Saving to: 'ShreyasKulkarni_Portfolio.git'  
[ <=> ] 169,529 --.-K/s in 0.01s  
23-02-04 14:44:20 (15.2 MB/s) - 'ShreyasKulkarni_Portfolio.git' saved [169529]  
t@ip-172-31-53-116 aws_assg3]$ ls -lrt  
l 168  
r--r-- 1 root root 169529 Feb 4 14:44 ShreyasKulkarni_Portfolio.git  
t@ip-172-31-53-116 aws_assg3]$ wget https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio/archive/refs/heads/master.zip  
23-02-04 14:44:20 (15.2 MB/s) - 'ShreyasKulkarni_Portfolio.archive/refs/heads/master.zip' saved [169529]
```

18. Type the commands:
1. ls -lrt
  2. You will get the zip file name displayed in cli.  
Unzip using this command: unzip  
“zipfilename.zip.”



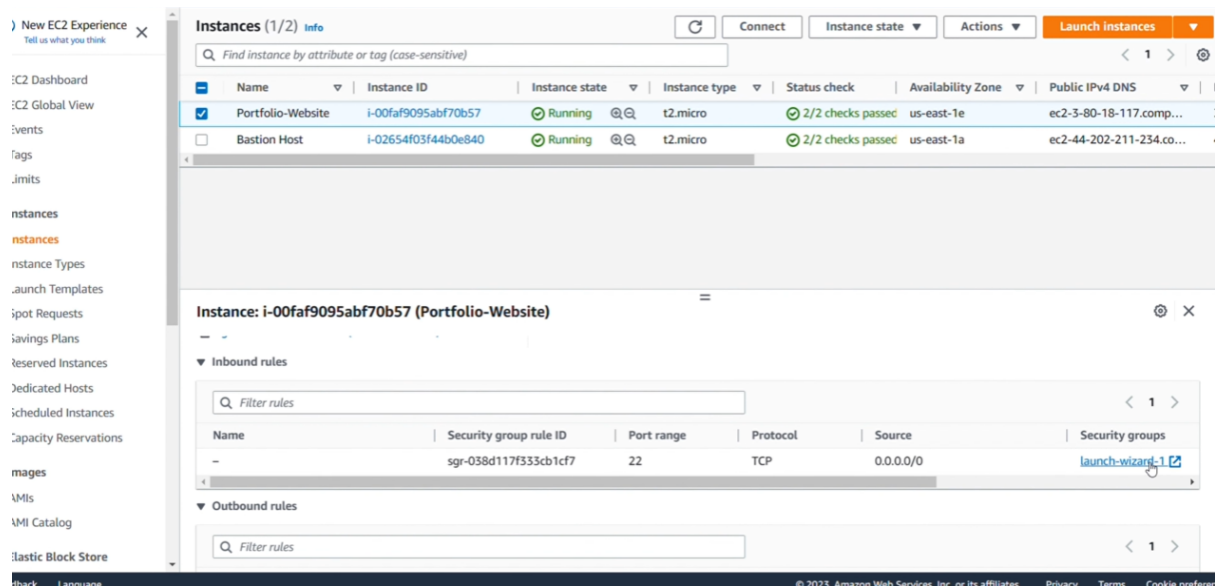
```
23-02-04 14:44:20 (15.2 MB/s) - 'ShreyasKulkarni_Portfolio.archive/refs/heads/master.zip' saved [169529]  
t@ip-172-31-53-116 aws_assg3]$ ls -lrt  
l 168  
r--r-- 1 root root 169529 Feb 4 14:44 ShreyasKulkarni_Portfolio.git  
t@ip-172-31-53-116 aws_assg3]$ wget https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio/archive/refs/heads/master.zip  
23-02-04 14:44:49-- https://github.com/Shreyas100100/ShreyasKulkarni_Portfolio/archive/refs/heads/master.zip  
Connecting to github.com (github.com)|140.82.114.4|:443... connected.  
request sent, awaiting response... 302 Found  
Location: https://codeload.github.com/Shreyas100100/ShreyasKulkarni_Portfolio/zip/refs/heads/master [following]  
23-02-04 14:44:49-- https://codeload.github.com/Shreyas100100/ShreyasKulkarni_Portfolio/zip/refs/heads/master  
Connecting to codeload.github.com (codeload.github.com)|140.82.113.10|:443... connected.  
request sent, awaiting response... 200 OK  
Content-Length: unspecified [application/zip]  
Saving to: 'master.zip'  
[ <=> ] 619,972 --.-K/s in 0.1s  
23-02-04 14:44:49 (5.57 MB/s) - 'master.zip' saved [619972]  
t@ip-172-31-53-116 aws_assg3]$ ls -lrt  
l 776  
r--r-- 1 root root 169529 Feb 4 14:44 ShreyasKulkarni_Portfolio.git  
r--r-- 1 root root 619972 Feb 4 14:44 master.zip  
t@ip-172-31-53-116 aws_assg3]$ unzip master.zip  
Archive:  master.zip  
  inflating: ShreyasKulkarni_Portfolio/
```

3. Ls -lrt
4. You will get the folder name in blue color. Now type this: cd "folder\_name"
5. Ls -lrt
6. You will get some files. Type this:  
`Mv * /var/www/html/`
7. Cd /var/www/html
8. Ls -lrt

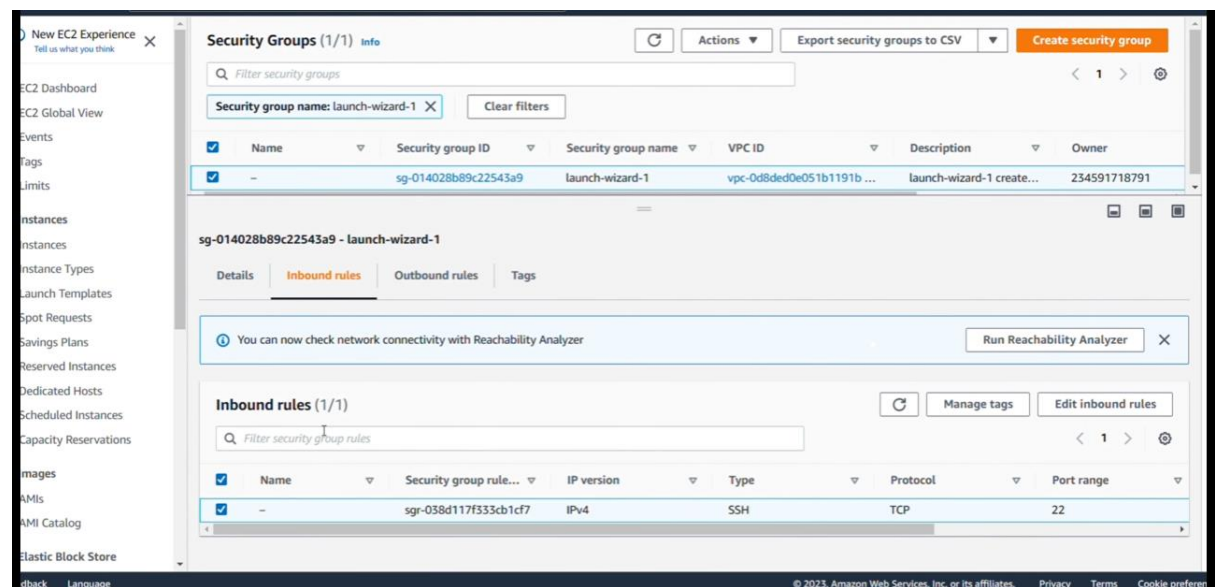
```
t@ip-172-31-53-116 aws_assg3]# cd ShreyasKulkarni_Portfolio-master
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# ls -lrt
l 12
-r-xr-x 6 root root 154 Feb 4 14:33 plugins
-r-xr-x 2 root root 23 Feb 4 14:33 js
-r--r-- 1 root root 10607 Feb 4 14:33 index.html
-r-xr-x 3 root root 94 Feb 4 14:33 css
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# mv * /var/www/html/
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# cd /var/www/html
t@ip-172-31-53-116 html]# ls -lrt
l 12
-r-xr-x 6 root root 154 Feb 4 14:33 plugins
-r-xr-x 2 root root 23 Feb 4 14:33 js
-r--r-- 1 root root 10607 Feb 4 14:33 index.html
-r-xr-x 3 root root 94 Feb 4 14:33 css
t@ip-172-31-53-116 html]#
```

19. Go to the AWS Instances.

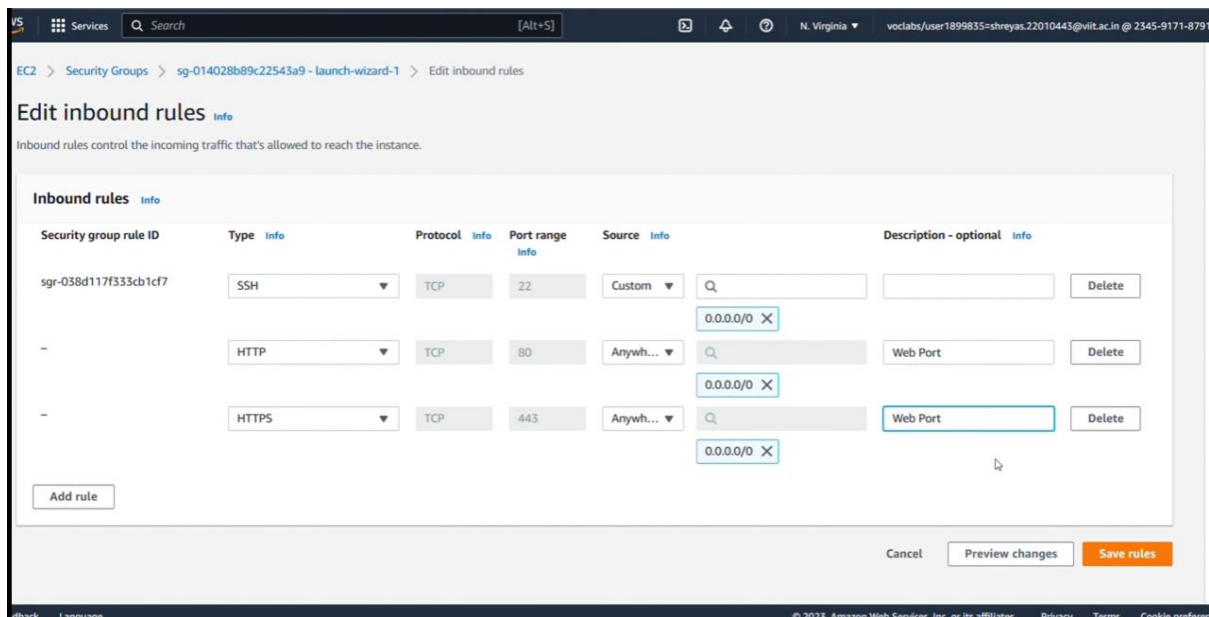
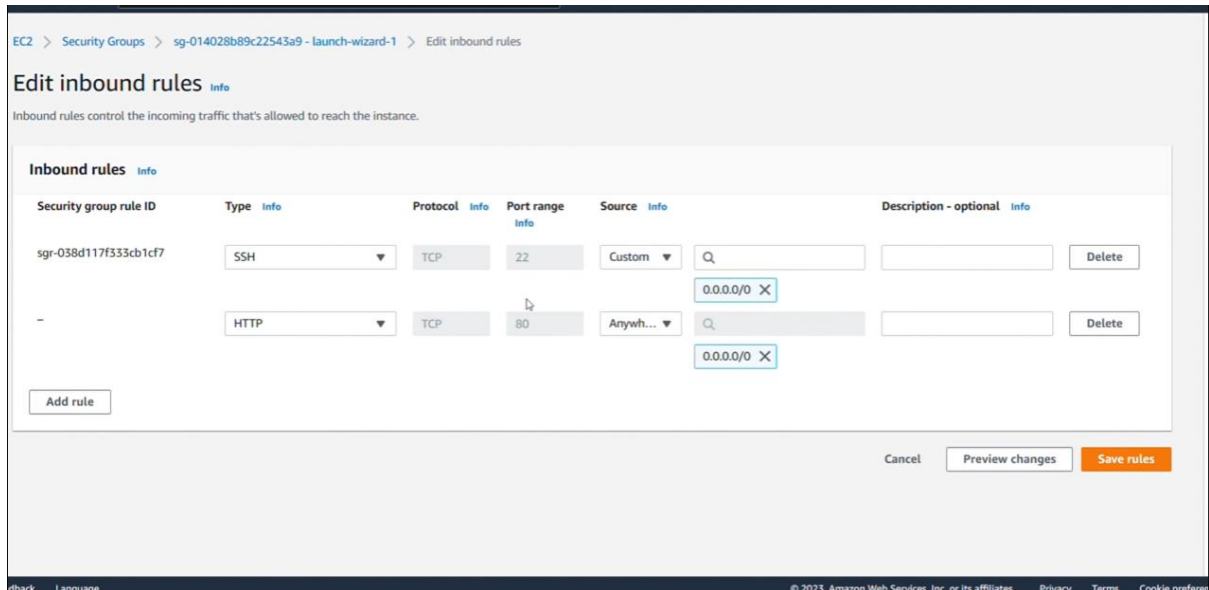
20. Select the instance ID of the instance you created, then go to security, Inbound rules and select launch wizard.



21. In that select inbound rules tab, select Edit inbound rules.



22. Select Add rule and perform these
1. HTTP, anywhere ipv4, 0:0:0:0/0, select add rule
  2. https, anywhere ipv4, 0:0:0:0/0

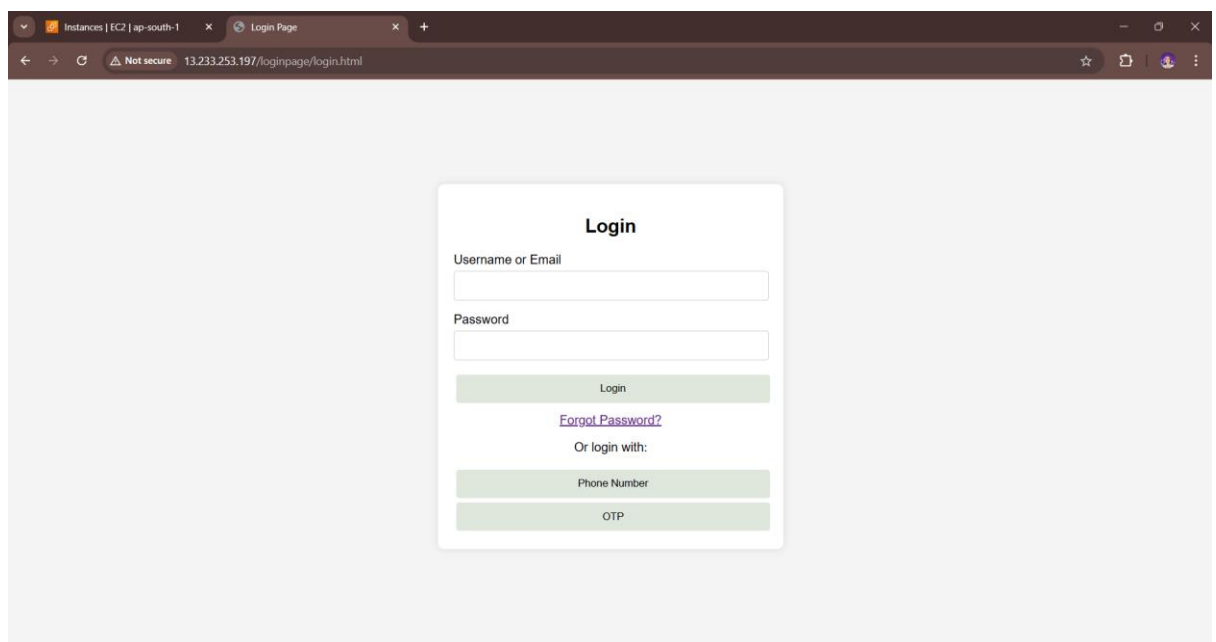


23. Go to Aws cli and type this
- Systemctl status httpd
- Systemctl enable httpd.
- Systemctl start httpd



```
VS [Alt+5] N. Virginia voclabs/user1899835=shreyas.22010443@vlt.ac.in @ 2345-9171-8791
t@ip-172-31-53-116 aws_assg3]# ls -lrt
ls 776
-r-xr-x 5 root root 60 Feb 4 14:33 ShreyasKulkarni_Portfolio-master
-r--r-- 1 root root 169529 Feb 4 14:44 ShreyasKulkarni_Portfolio.git
-r--r-- 1 root root 619972 Feb 4 14:44 master.zip
t@ip-172-31-53-116 aws_assg3]# cd ShreyasKulkarni_Portfolio-master
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# ls -lrt
ls 12
-r-xr-x 6 root root 154 Feb 4 14:33 plugins
-r-xr-x 2 root root 23 Feb 4 14:33 js
-r--r-- 1 root root 10607 Feb 4 14:33 index.html
-r-xr-x 3 root root 94 Feb 4 14:33 css
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# mv * /var/www/html/
t@ip-172-31-53-116 ShreyasKulkarni_Portfolio-master]# cd /var/www/html
t@ip-172-31-53-116 html]# ls -lrt
ls 12
-r-xr-x 6 root root 154 Feb 4 14:33 plugins
-r-xr-x 2 root root 23 Feb 4 14:33 js
-r--r-- 1 root root 10607 Feb 4 14:33 index.html
-r-xr-x 3 root root 94 Feb 4 14:33 css
t@ip-172-31-53-116 html]# systemctl status httpd
tpd.service - The Apache HTTP Server
loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
active: inactive (dead)
Docs: man:httpd.service(8)
t@ip-172-31-53-116 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
t@ip-172-31-53-116 html]# systemctl start httpd
00faf9095abf70b57 (Portfolio-Website)
PublicPs: 3.80.18.117 PrivatePs: 172.31.53.116
```

24. Now reload the tab where you put your Ip address and see the results of your website.



HomeMade  
Snacks

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Explore the collection

