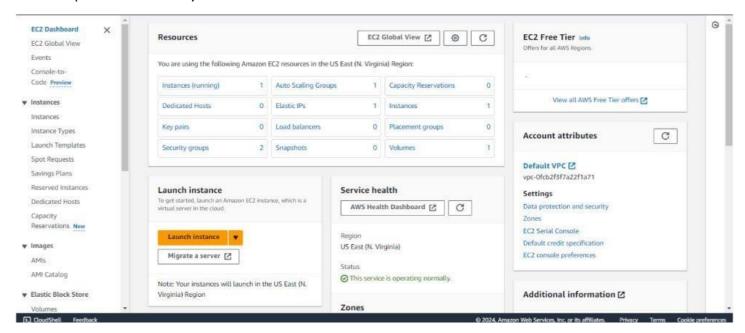
Sneha Patra D15A 41

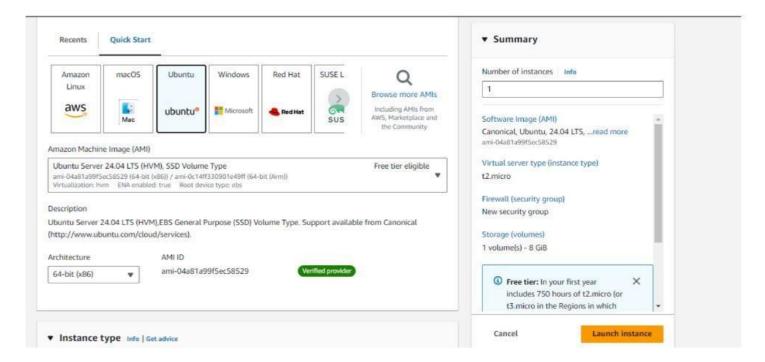
Experiment 1

Aim: To develop a website and host it on your local machine on a VM

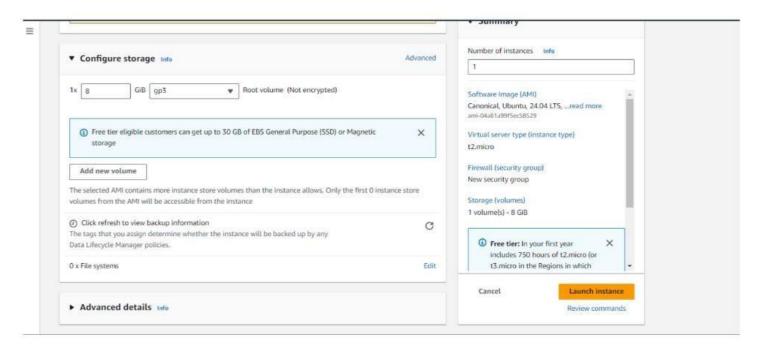
1. Open AWS Academy and select launch instance



2. And then select Ubuntu or Linux.



3. Set the configuration and then connect to the instance which you created.



4. Execute the following commands in the aws console.

Commands:

sudo su
sudo apt install
sudo apt-get update
apt install apache2
systemctl status apache2
cd /var/www/html/

```
Welcome to Ubuntu 24.04 DTS (GNU/Linux 6.8.0-1009-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://help.ubuntu.com/pro

* System information disabled due to load higher than 1.0

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

The list of available updates is more than a week old.

10 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 upsyshare/doc/tocpyright.

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

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo <command>".

10 run a command as administrator (user "root"), use "sudo
```

```
root@ip-172-31-17-139:/home/ubuntu# sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/murerse amd64 Packages [15.0 MB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [26 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [5962 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [63.3 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/miverse amd64 Packages [247 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Candata [3668 B]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Candata [3620 B]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Candata [420 B]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Candata [420 B]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Candata [420 B]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [40.7 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [2808 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [2808 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Candata [344 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [3871 kB]
Get:20 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [3871 kB]
Get:21 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [3871 kB]
Get:22 http://security.ubuntu.com/ubuntu.com/ubuntu noble/multiverse amd64 Components [3871 kB]
Get:23 http://security.ubuntu.com/ubuntu.com/ubuntu noble-multivers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (3)
   Set:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [12.6 kB]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [208 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [208 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [208 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [208 kB]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [416 B]
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [416 B]
Get:38 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 [212 B]
Get:43 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
Get:44 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [532 B]
Get:43 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:43 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Packages [10.3 kB]
Get:44 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Packages [10.3 kB]
Get:45 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [17.6 kB]
Get:46 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [17.6 kB]
Get:46 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 C-n-f Metadata [1016 B]
Get:47 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 C-n-f Metadata [10.8]
Get:48 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 C-n-f Metadata [10.8]
Get:49 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 C-n-f Metadata [10.8]
Get:49 http://us-east-1.ec2.archive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (3)
```

```
After this operation, 8094 kB of additional disk space will be used.

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

Set:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil164 amd64 1.7.2-3.1build2 [107 kB]

Set:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil164 amd64 1.6.3-1.1ubuntu7 [91.9 kB]

Set:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.3-1.1ubuntu7 [11.2 kB]

Set:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dap amd64 1.6.3-1.1ubuntu7 [91.6 kB]

Set:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 liblua5.4-0 amd64 5.4.6-3build2 [166 kB]

Set:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-bin amd64 2.4.58-1ubuntu8.4 [132 kB]

Set:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.4 [163 kB]

Set:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-utils amd64 2.4.58-1ubuntu8.4 [97.1 kB]

Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2 amd64 2.4.58-1ubuntu8.4 [97.1 kB]

Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 spache2 amd64 2.4.58-1ubuntu8.4 [97.2 kB]

Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 spache2 amd64 1.4.58-1ubuntu8.4 [97.2 kB]

Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 spache2 amd64 1.4.58-1ubuntu8.4 [97.2 kB]

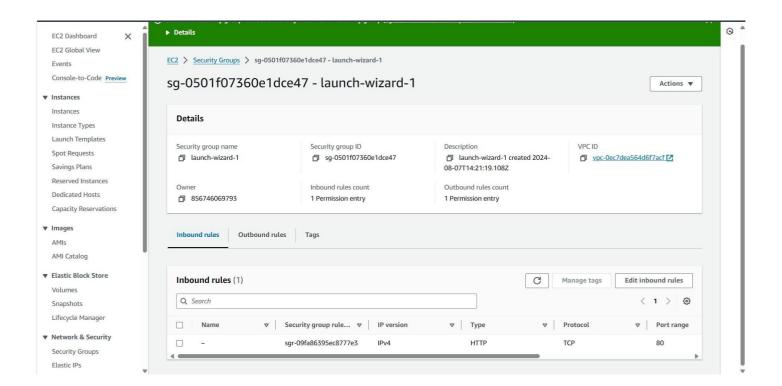
Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 spache2 amd64 1.4.58-1ubuntu8.4 [97.2 kB]

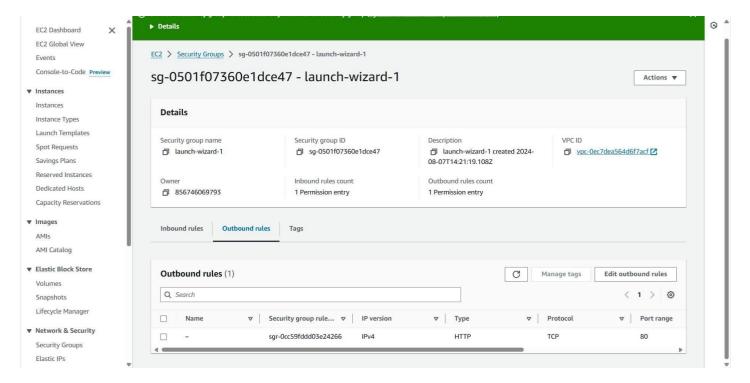
Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 spache2-amd64 1.4.58-1ubuntu8.4 [97.2 kB]

Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 spache2-amd64 1.4.58-1ubuntu8.4 [97.2 kB]
Set:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 ss1-cert a fetched 2083 kB in 0s (25.8 MB/s) 
Preconfiguring packages ... 
Selecting previously unselected package libaprlt64:amd64. 
(Reading database ... 67739 files and directories currently installed.) 
Preparing to unpack ... /0-libaprlt64 [1.7.2-3.lbuild2] amd64.deb ... 
Unpacking libaprlt64:amd64 (1.7.2-3.lbuild2) ... 
Selecting previously unselected package libaprutill164:amd64. 
Preparing to unpack ... /1-libaprutill164 [1.6.3-1.lubuntu7] amd64.deb ... 
Unpacking libaprutill164:amd64 (1.6.3-1.lubuntu7) ... 
Selecting previously unselected package libaprutill-ddb-sqlite3:amd64. 
Preparing to unpack ... /2-libaprutill-dbd-sqlite3 ].6.3-1.lubuntu7) ... 
Selecting previously unselected package libaprutill-ldap; amd64. 
Preparing to unpack ... /3-libaprutill-ldap [1.6.3-1.lubuntu7] ... 
Selecting previously unselected package libaprutill-dap; amd64. 
Preparing to unpack ... /4-liblua5.4-0.5.4.6-3build2 amd64.deb ... 
Unpacking liblua5.4-0.amd64 (5.4.6-3build2) ... 
Selecting previously unselected package apache2-bin. 
Preparing to unpack ... /5-apache2-bin 2.4.58-lubuntu8.4 amd64.deb ... 
Unpacking previously unselected package apache2-data. 

Preparing to unpack ... /5-apache2-bin 2.4.58-lubuntu8.4 all deb ... 
Unpacking previously unselected package apache2-data.
          packing apachez-bin (2.4.08-iubuntu8.4) ...
lecting previously unselected package apache2-data.
eparing to unpack .../6-apache2-data_2.4.58-1ubuntu8.4_all.deb ...
reated symlink /etc/systemd/system/multi-user.target.wants/apache2.service -> /usr/lib/systemd/system/apache2.service.
reated symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service -> /usr/lib/systemd/system/apache-htcacheclean.service.
rocessing triggers for ufw (0.36.2-6) ...
rocessing triggers for man-db (2.12.0-dbuild2) ...
rocessing triggers for libc-bin (2.39-Oubuntu8.2) ...
canning processes...
canning linux images...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (2)
  unning kernel seems to be up-to-date.
         services need to be restarted.
      containers need to be restarted.
         user sessions are running outdated binaries.
  07 14:32:03 ip-172-31-17-139 systemd[1]: Starting apache2.service - The Apache HTTP Server...
07 14:32:03 ip-172-31-17-139 systemd[1]: Started apache2.service - The Apache HTTP Server.
telip-172-31-17-139:/home/ubuntu# cd /var/www/html/
telip-172-31-17-139:/var/www/html# []
```

5. Edit the inbound and outbound rules.



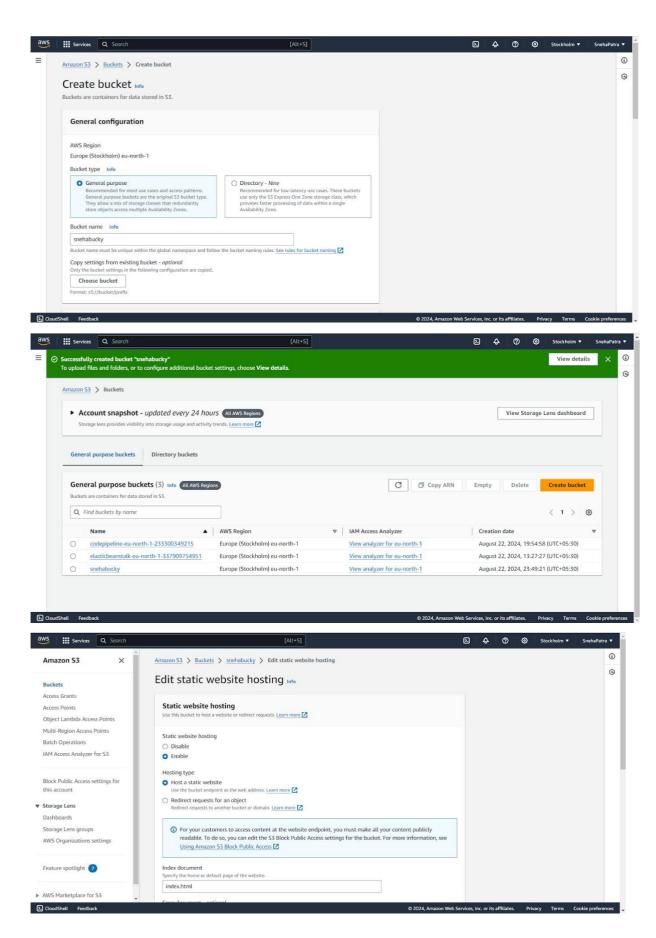


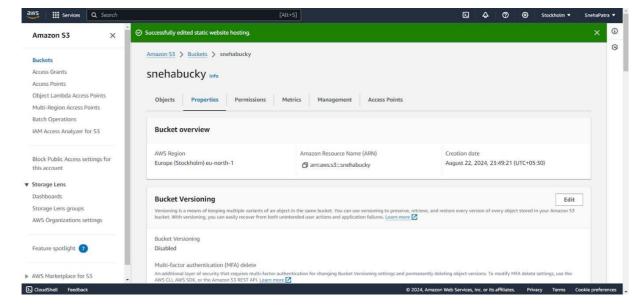
6. This is the hosted Static Website.



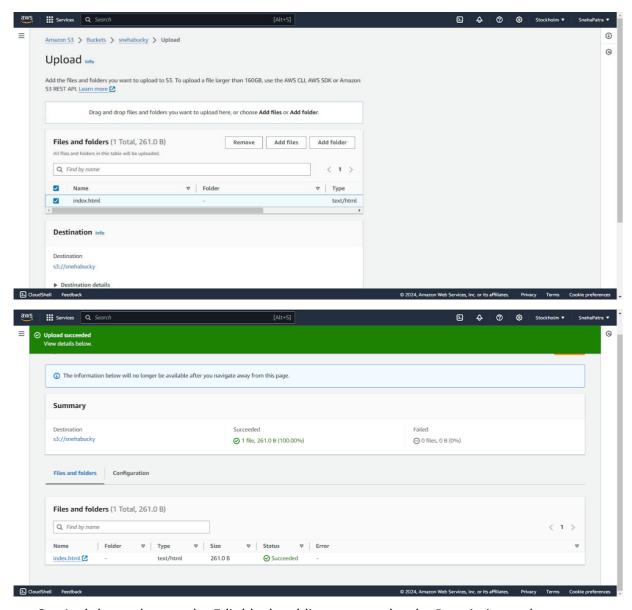
Using S3

1. Now visit S3 under the developer tools and create a Bucket and then Click on the Edit Static Website Hosting under the properties tab





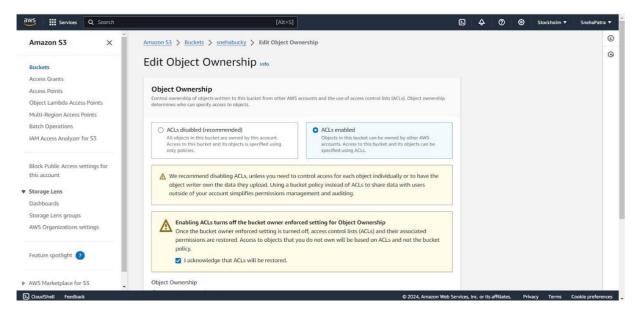
2. Upload your html file.



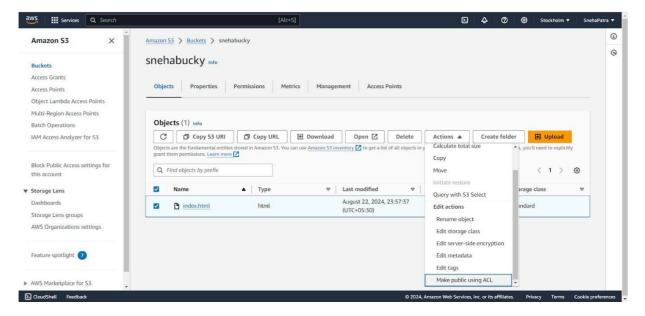
3. And then select on the Edit block public access under the Permissions tab.

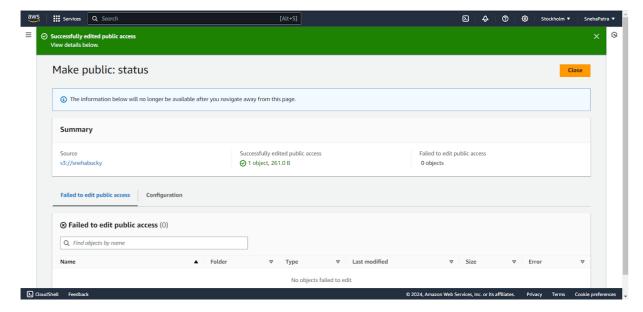


4. Select Object Ownership under Permission Tab



5. Select the file and click on Actions and select the option Make Public using ACL from the dropdown





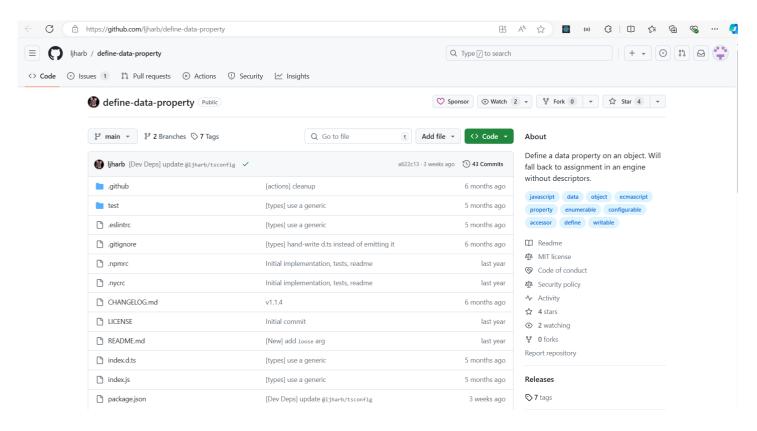
6. Now you can visit the domain and the website hosted.



Hello World. I am Sneha Patra From D15A!!

Dynamic Hosting:

Step 1: Clone the following Github repository: https://github.com/ljharb/define-data-property



Step 2: Open Console and run the following command

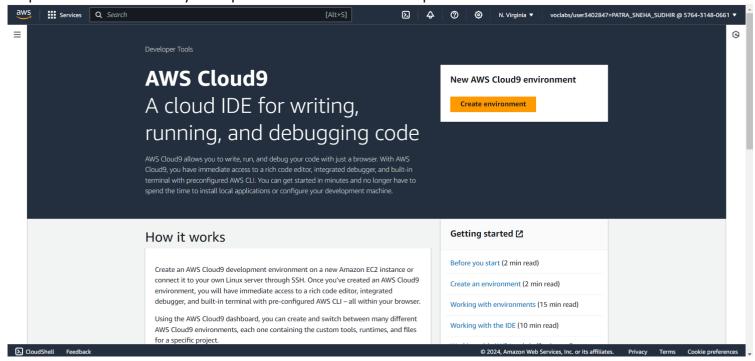
Step 3: Install necessary packages and run the website on port number 3000.

← → C ▲ Not secure 54,237.31.193:3000

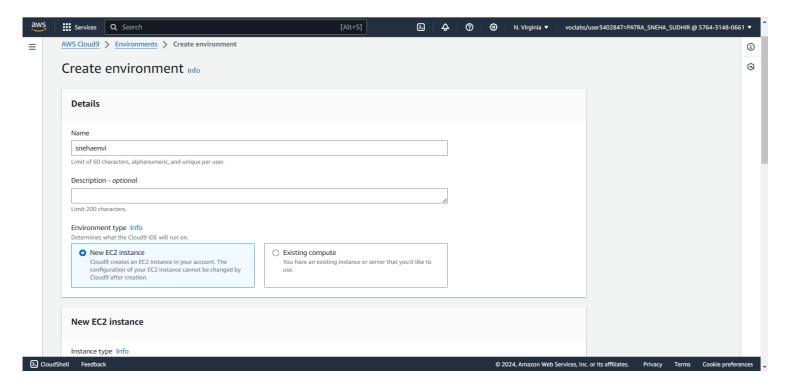
Hey this is Dynamic Website.

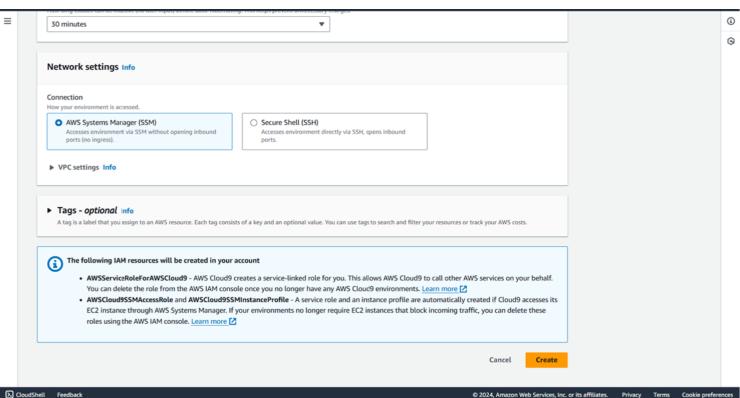
IDE Hosting:

Step 1: Go to AWS Academy and open AWS Cloud9 from developer Tools and select create environment.



Step 2: Create a environment





∑ CloudShell Feedback