21BCE2817
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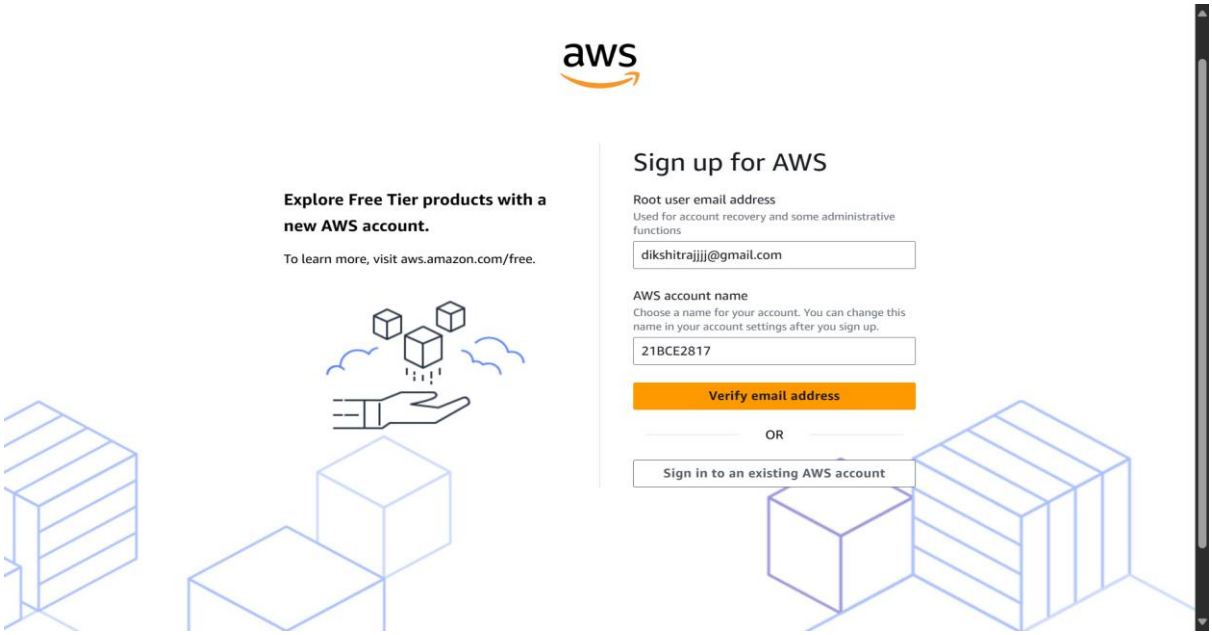
Steps to Deploy a Website/Web Application on AWS Cloud

Step I: Create an AWS account or login to AWS Management Console.

Steps to create AWS account:

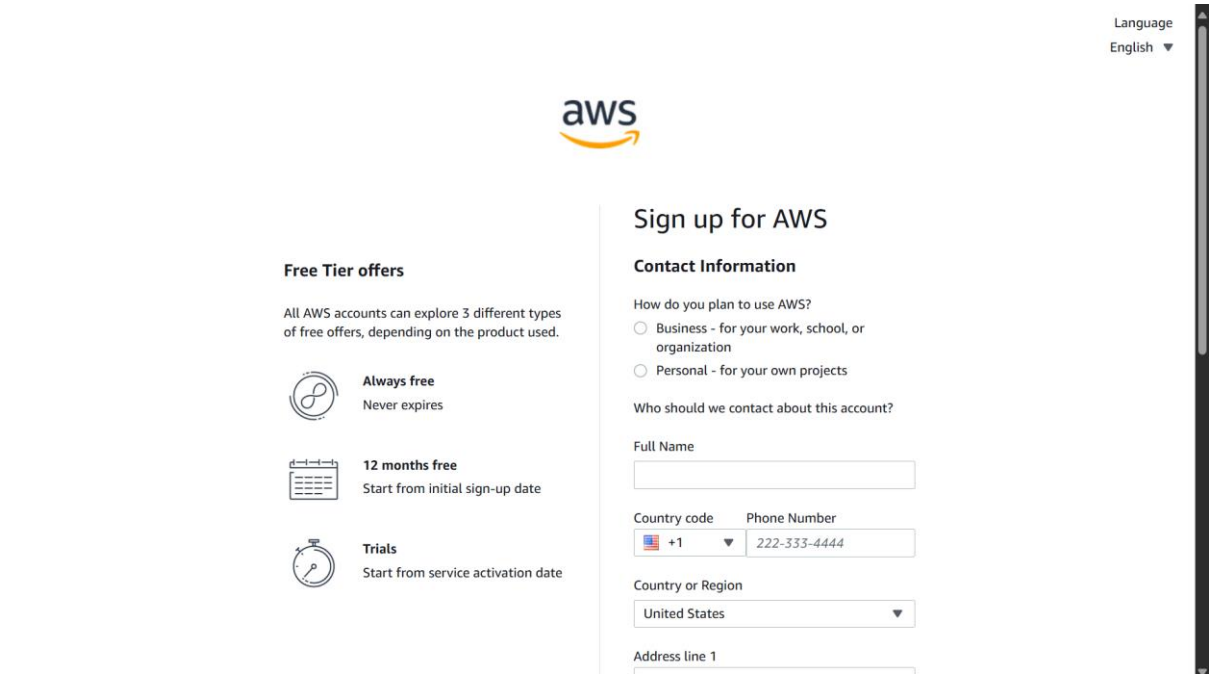
Step 1: Provide a user email address

Step 2: Provide an account name with should not contain any special characters or space and click continue.



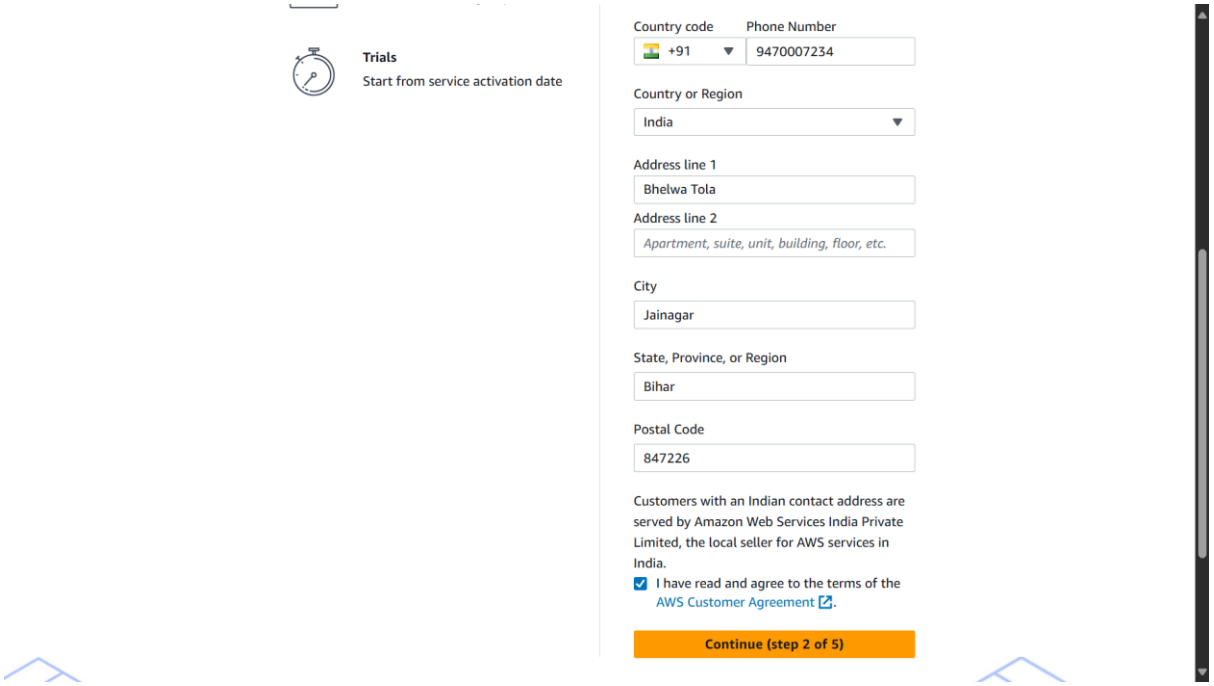
Step 3: Select How do you plan to use.

Step 4: Enter your full name and phone number which will be used for contacting.



Step 5: Enter County, Adress with city, state and postal code and tick the check box to agree with the terms and conditions.

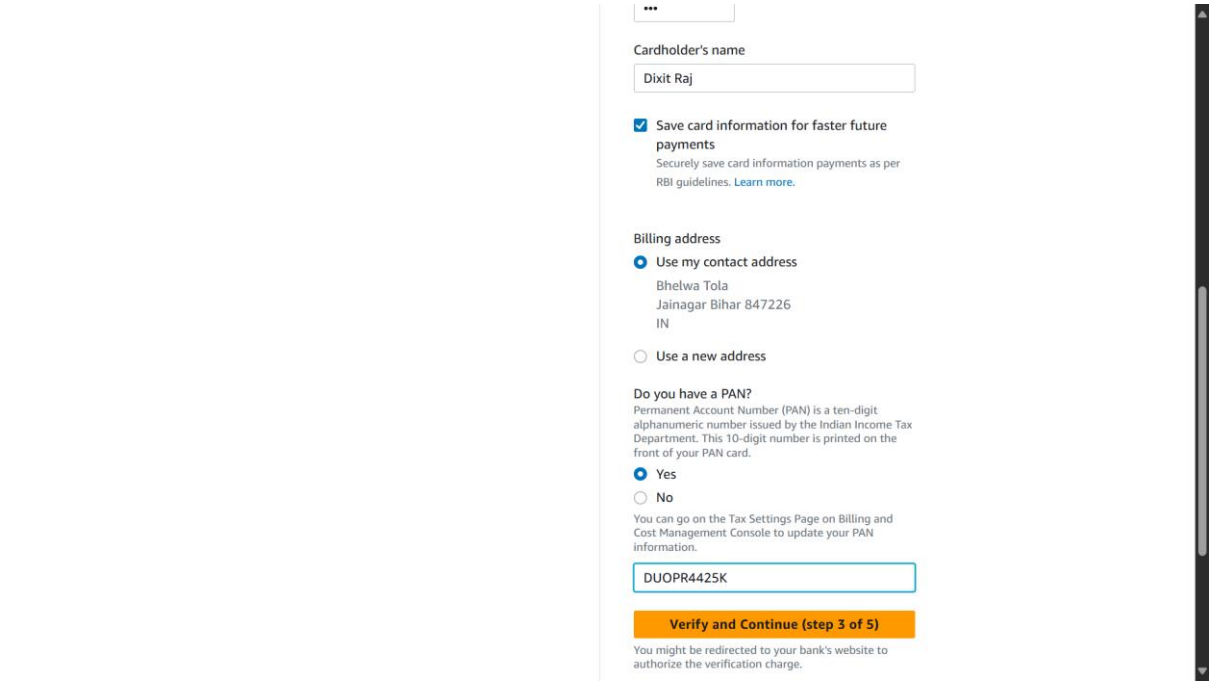
Step 6: Click Continue



Step 7: Provide Debit/Credit Card details, billing address and PAN Number.

Step 8: Click Verify and Continue.

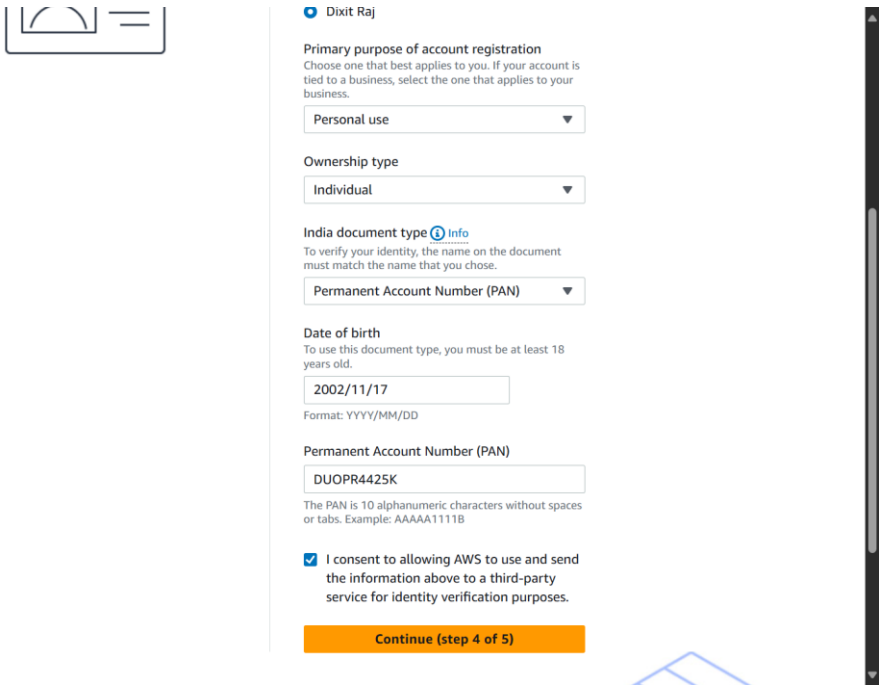
Step 9: OTP will be generated to verify the provided card details and as a formality 2 rupees will be deducted from your card attached bank account.



Step 10: Select the purpose of account and ownership type from a drag down window.

Step 11: Select a document type to verify your identity as I've chosen PAN so I'll write PAN Number and DOB.

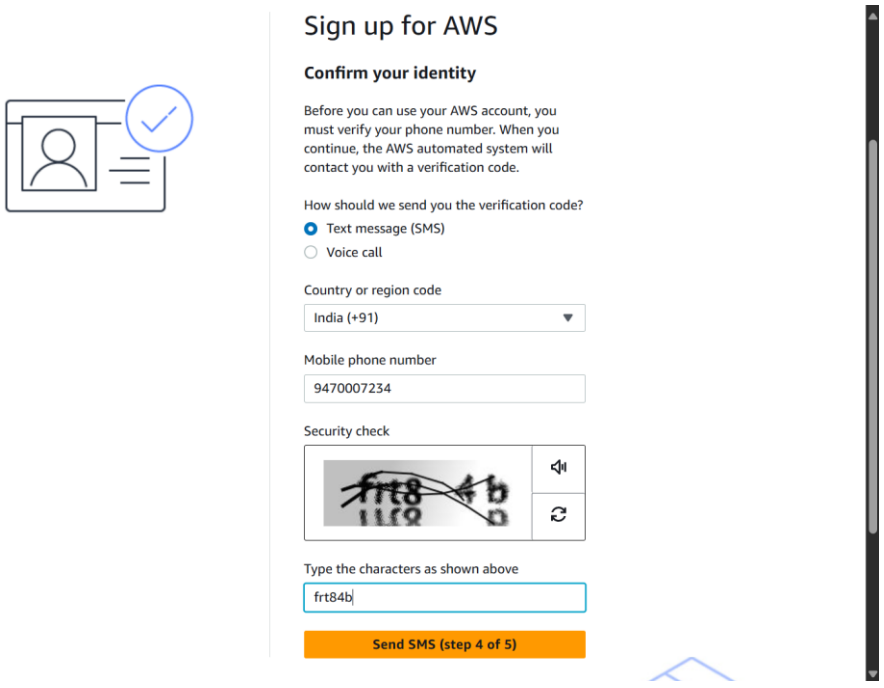
Step 12: Click the check box and continue.



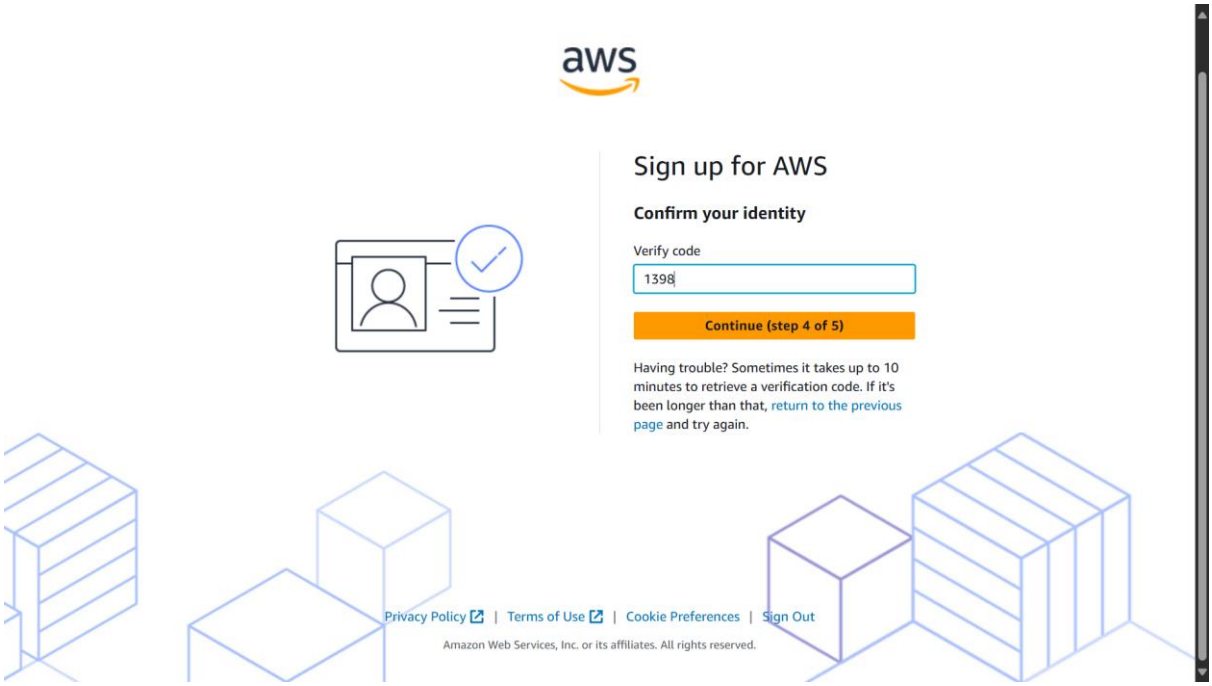
Step 13: You are asked to choose an option that how you would like to verify your phone Number.

Step 14: Enter Mobile Number which you want to verify and write captcha.

Step 15: Click on Send SMS.

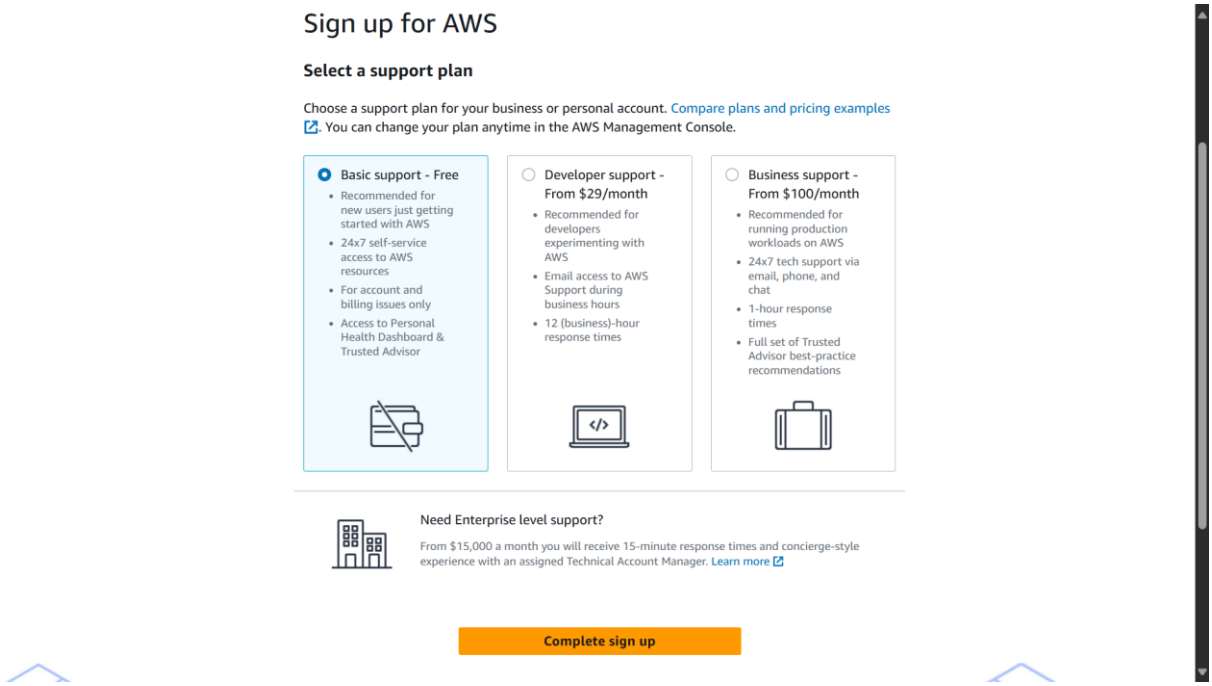


Step 16: Enter the verification code received on the phone number to verify the account and click continue.

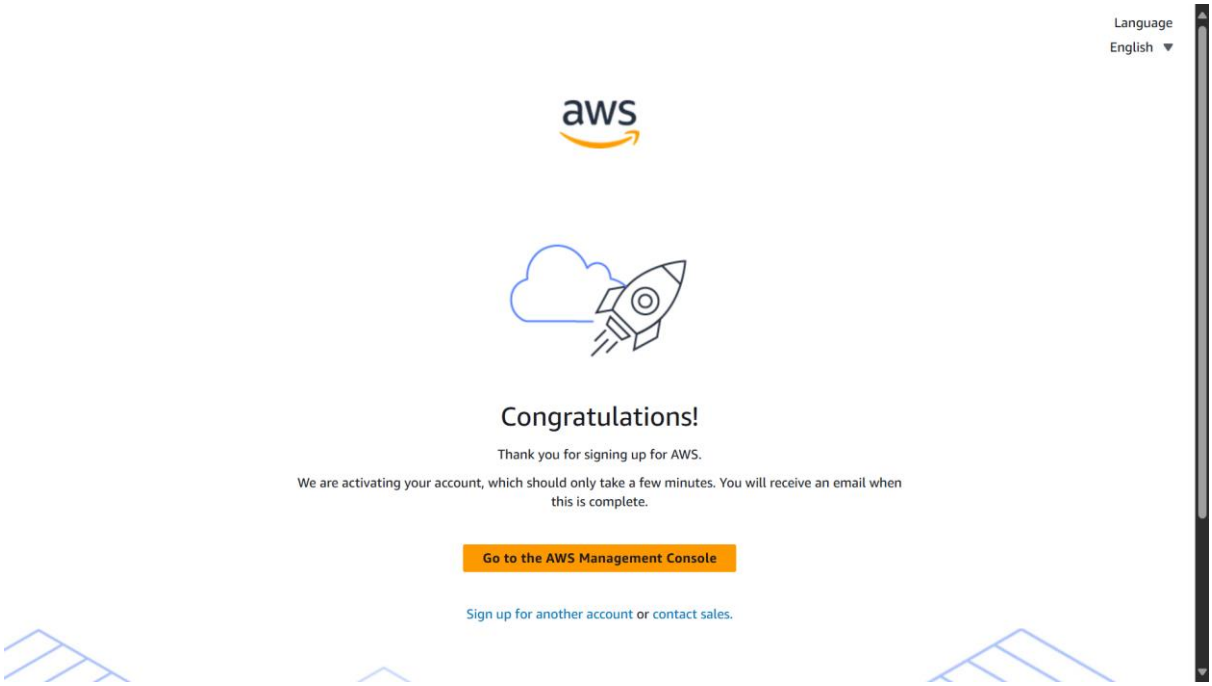


Step 17: Select the support plan you want. Here, I've selected Basic Support-Free as it is the free to use and enough to explore AWS services.

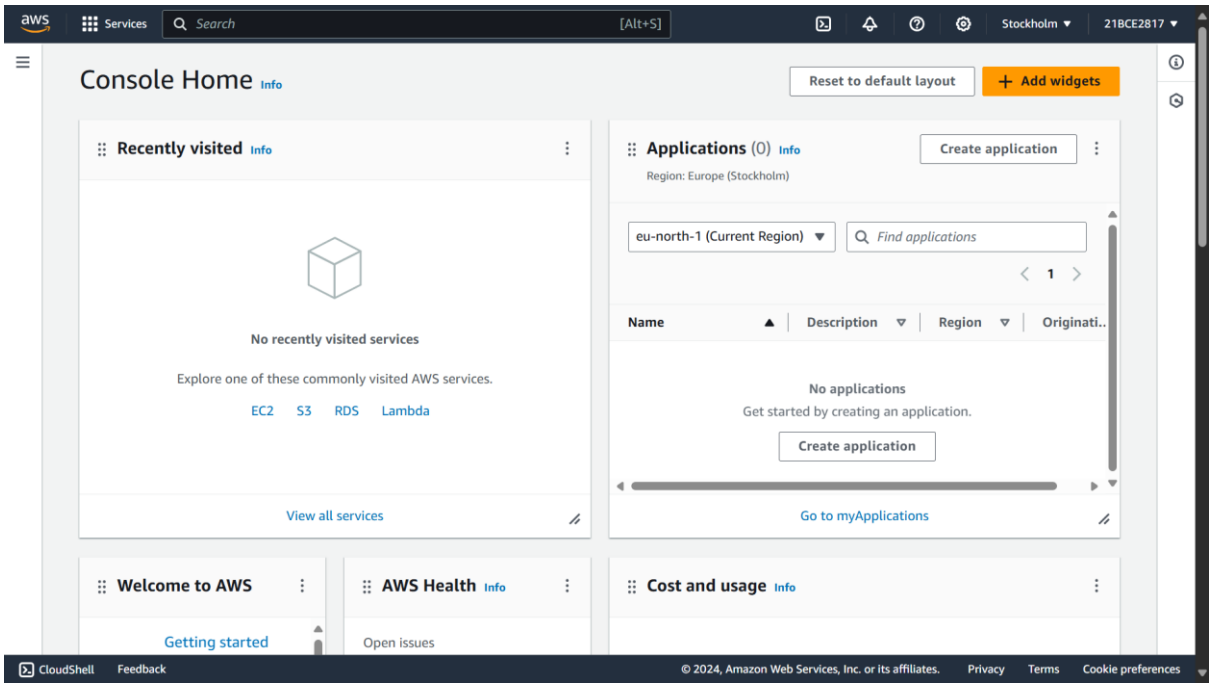
Step 18: Click Complete signup to complete sign up and now your account is created.



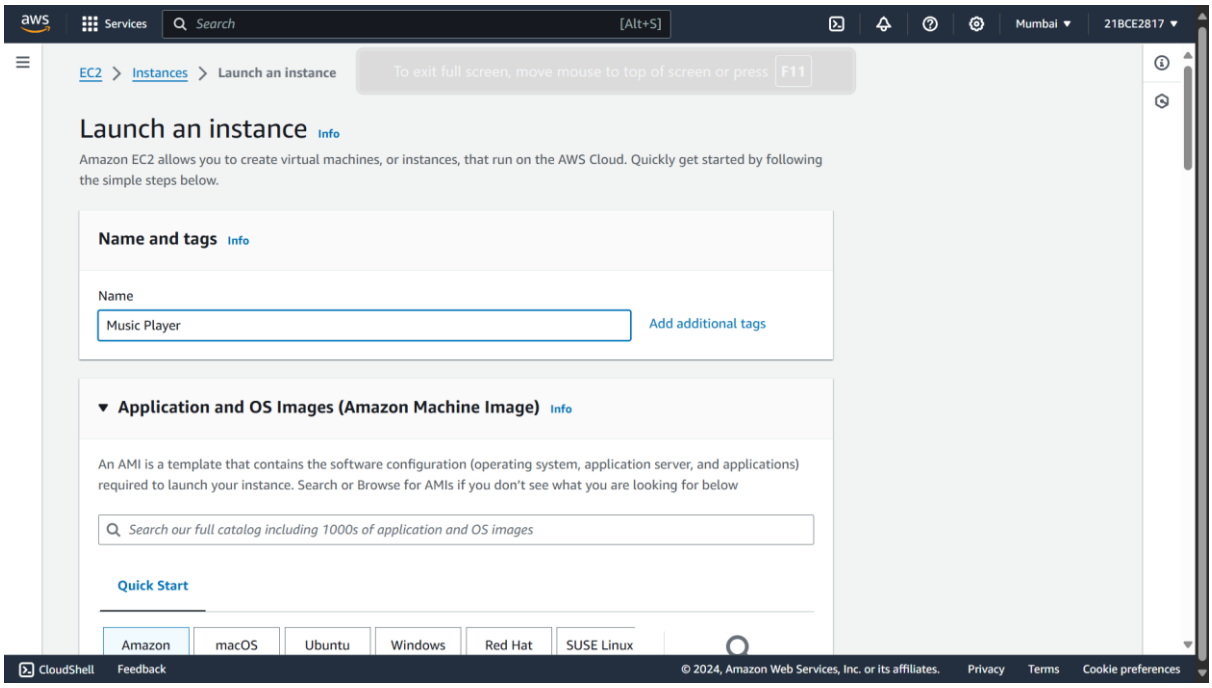
Step 19: Finally, AWS account is created and now click on Go to the AWS Management Console to open AWS Management Console Dashboard.



Step II: Click on EC2 to start creating EC2 instance.



Step III: Provide a name to your EC2 instance.

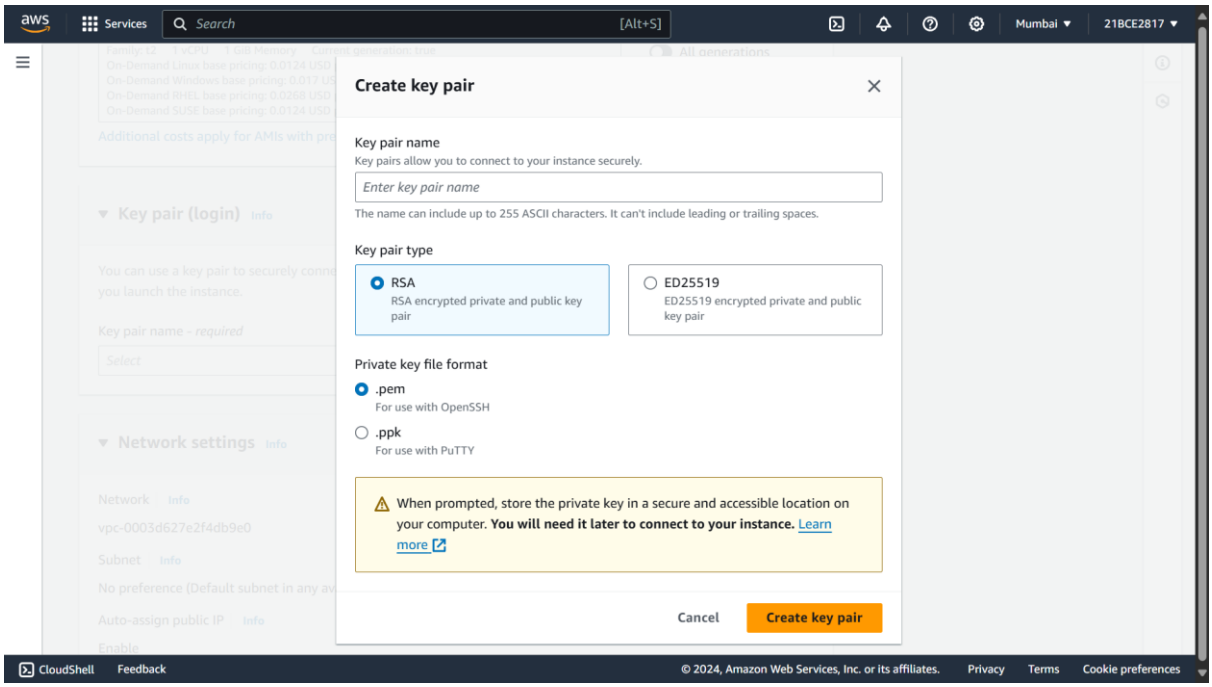


Step IV: Create a key pair.

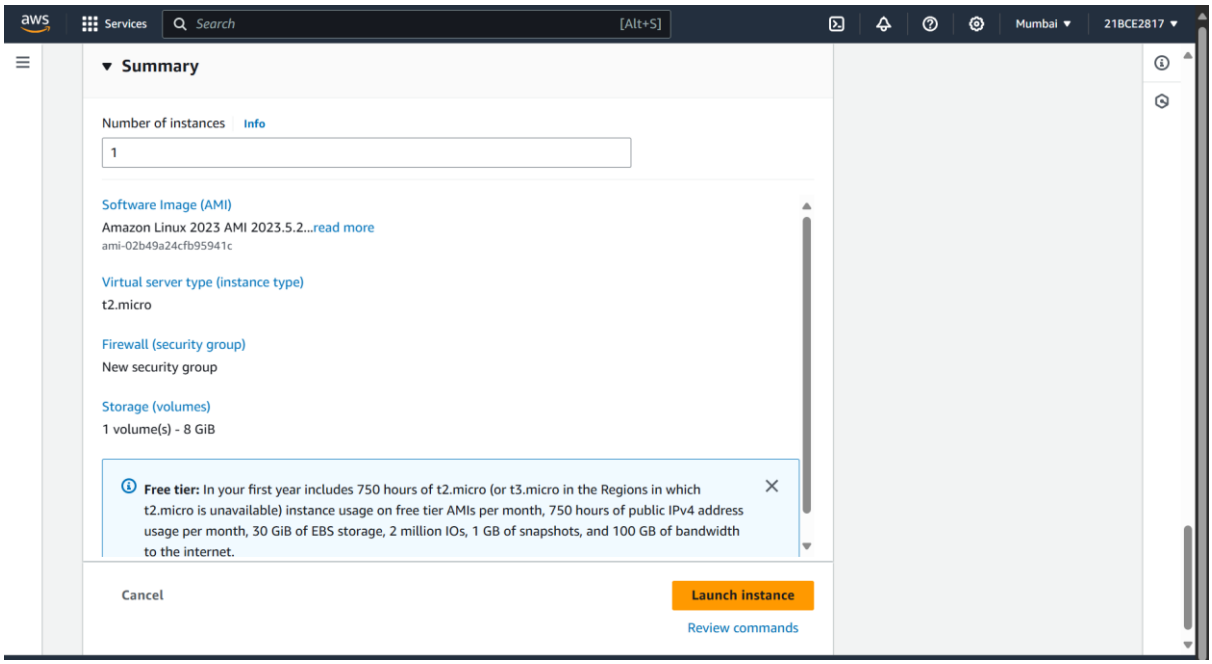
Step 1: Enter a Pair name.

Step 2: Select key pair type as RSA and format as .ppk because we are using it with PuTTY.

Step 4: Click Create key Pair and the newly created key pair will automatically be selected.

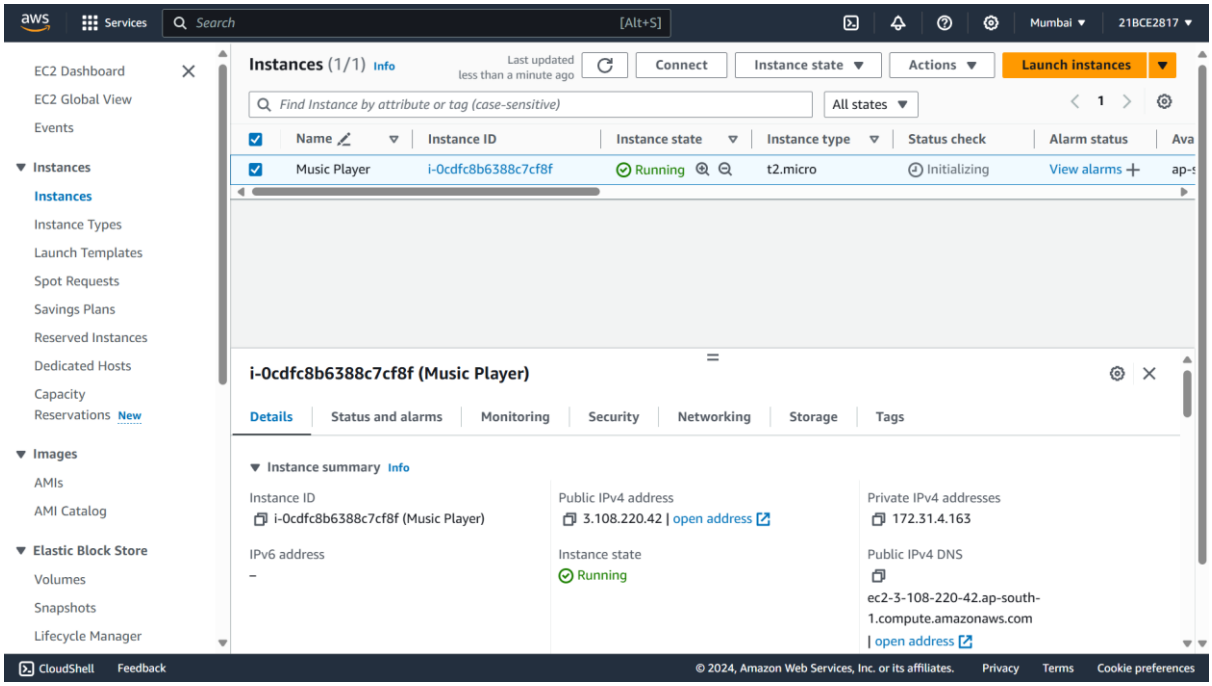


Step V: Leave rest of the things as it is as we don't need to configure the advance options like IAM, Route and all. Click Launch Instance to launch the created EC2 Instance.



Now our E2 Instance is created.

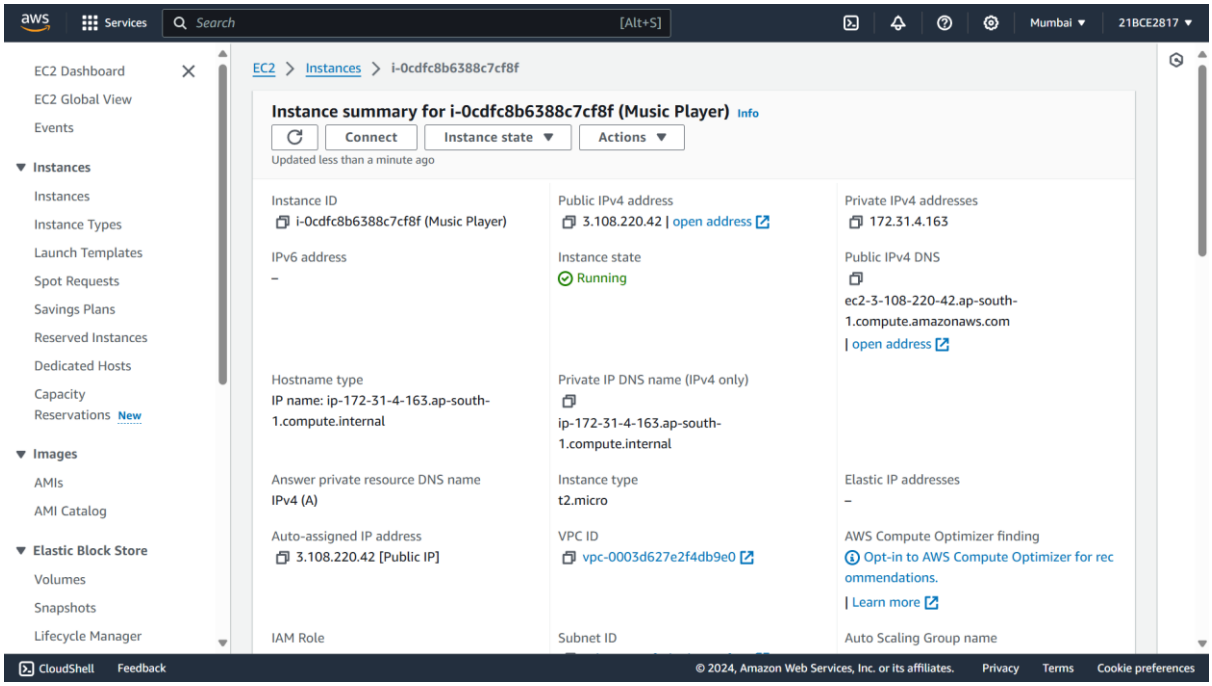
Step VI: Click on the EC2 Instance which we created and click on Details.



Step VII: Copy Auto-assigned IP address and paste it on your browser and click enter.

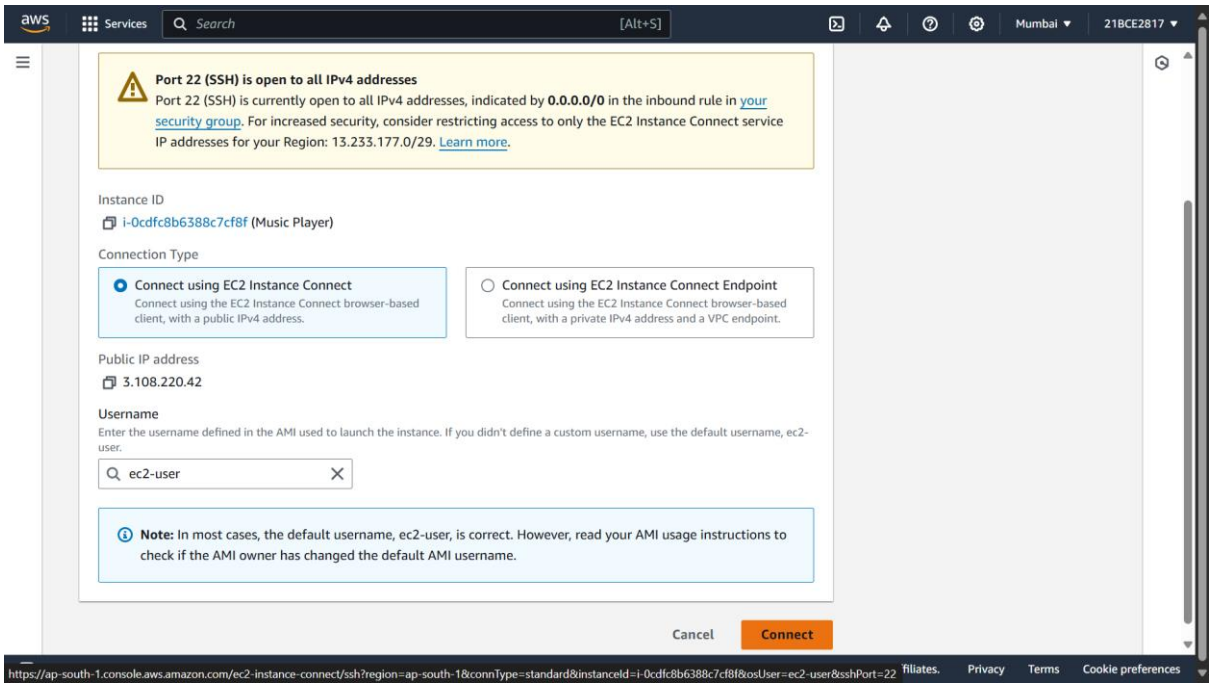
Note – As of now, the browser will unable to reach the server as we have not added anything to our instance.

Step VIII: Click on Connect.



Step IX: Click on Connect.

Now, a command window will open through which we'll add files from the GitHub.

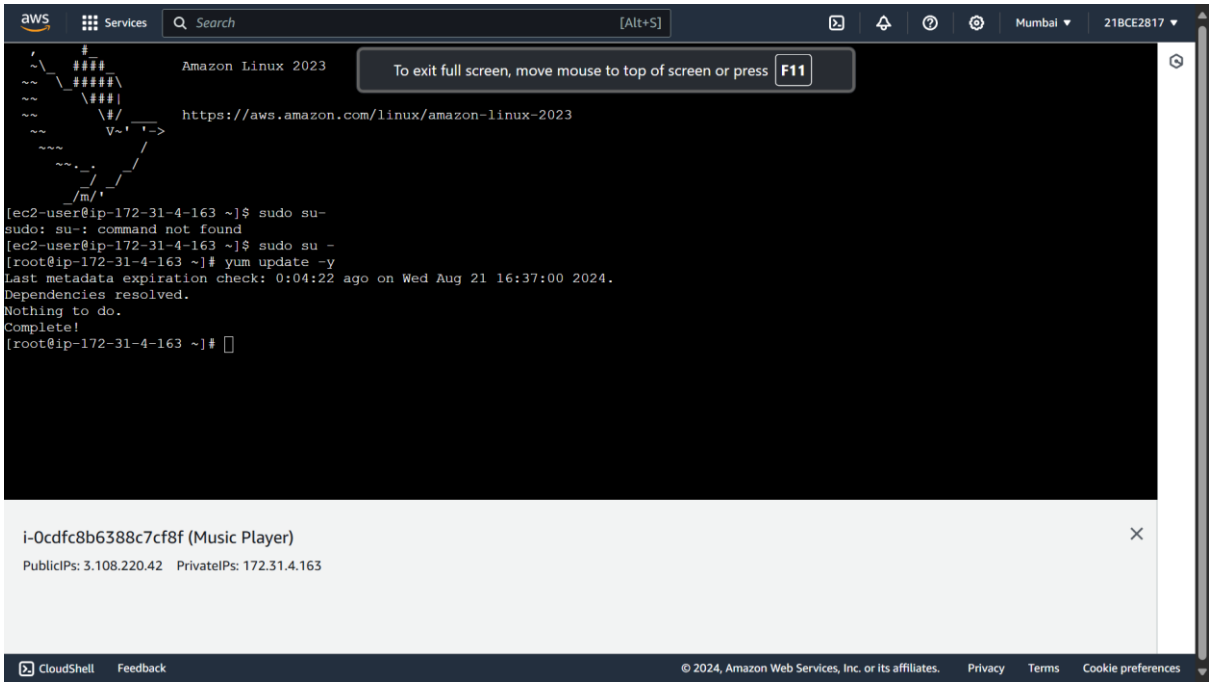


Step X: Enter Commands to add file to the instance.

Steps to add files:

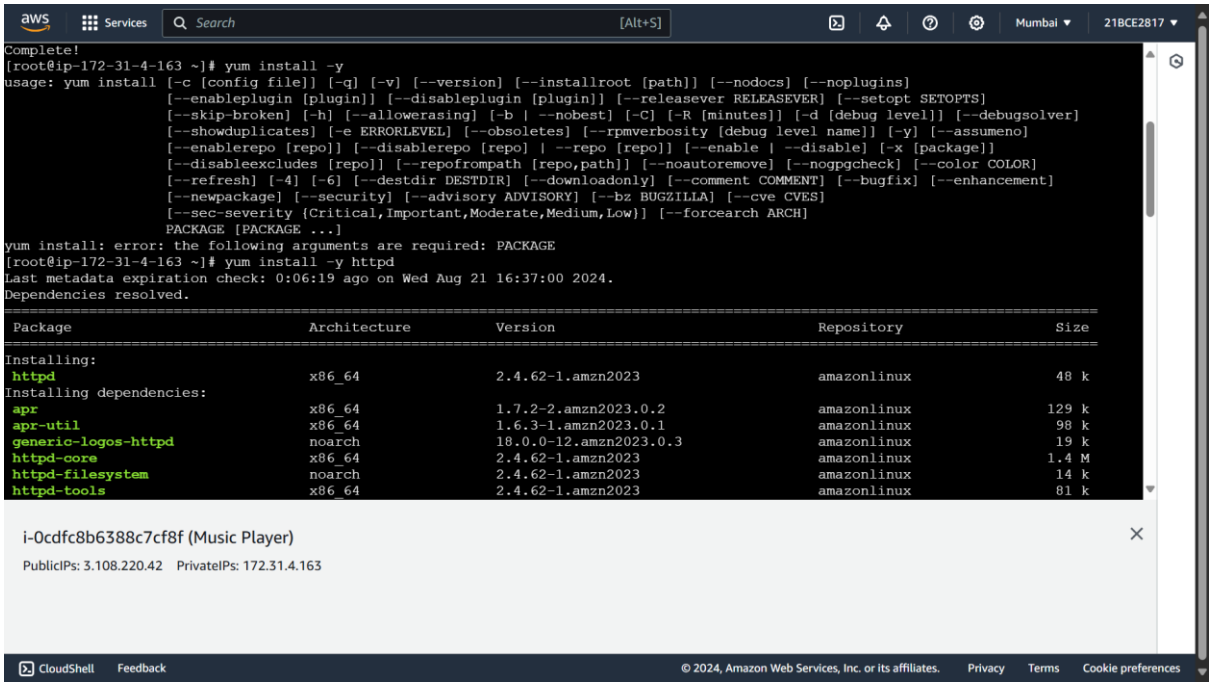
Step 1: Enter Command ‘sudo su –‘.

Step 2: Enter Command ‘yum update -y’.



Step 3: Enter Command ‘yum install -y‘.

Step 4: Enter Command ‘yum install -y httpd’.

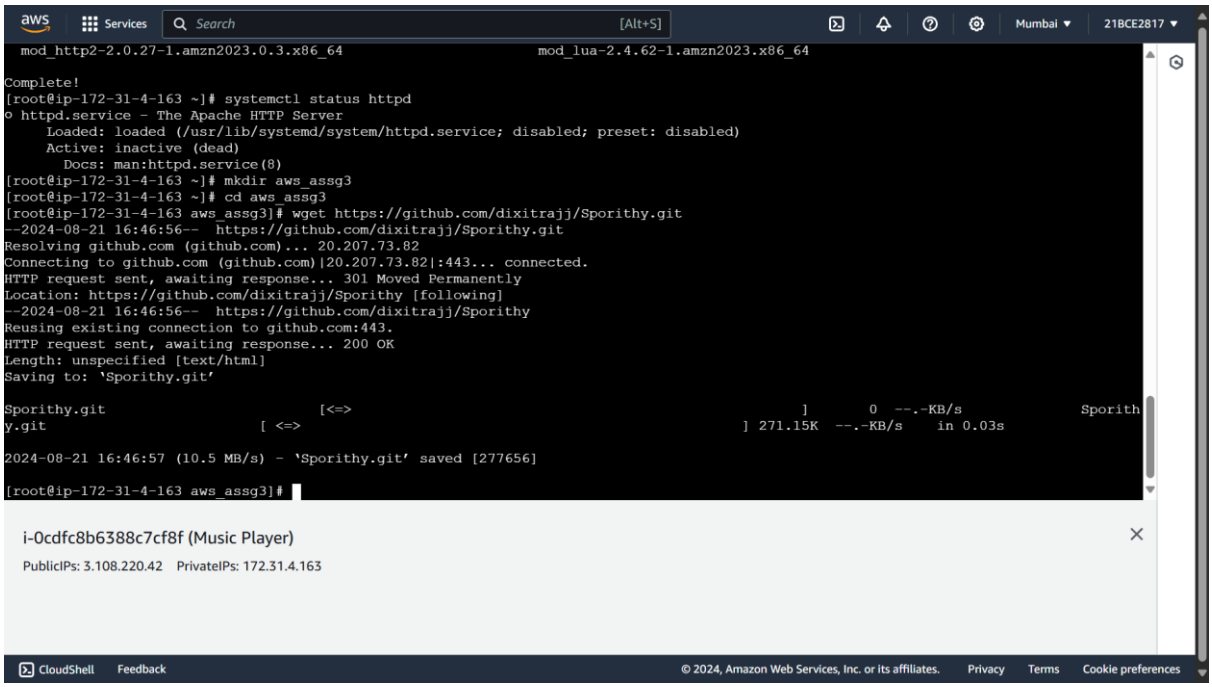


Step 5: Enter Command ‘systemctl status httpd’.

Step 6: Enter Command ‘mkdir aws_assg3’.

Step 7: Enter Command ‘wget https://github.com/dixitrajj/Sporithy.git’.

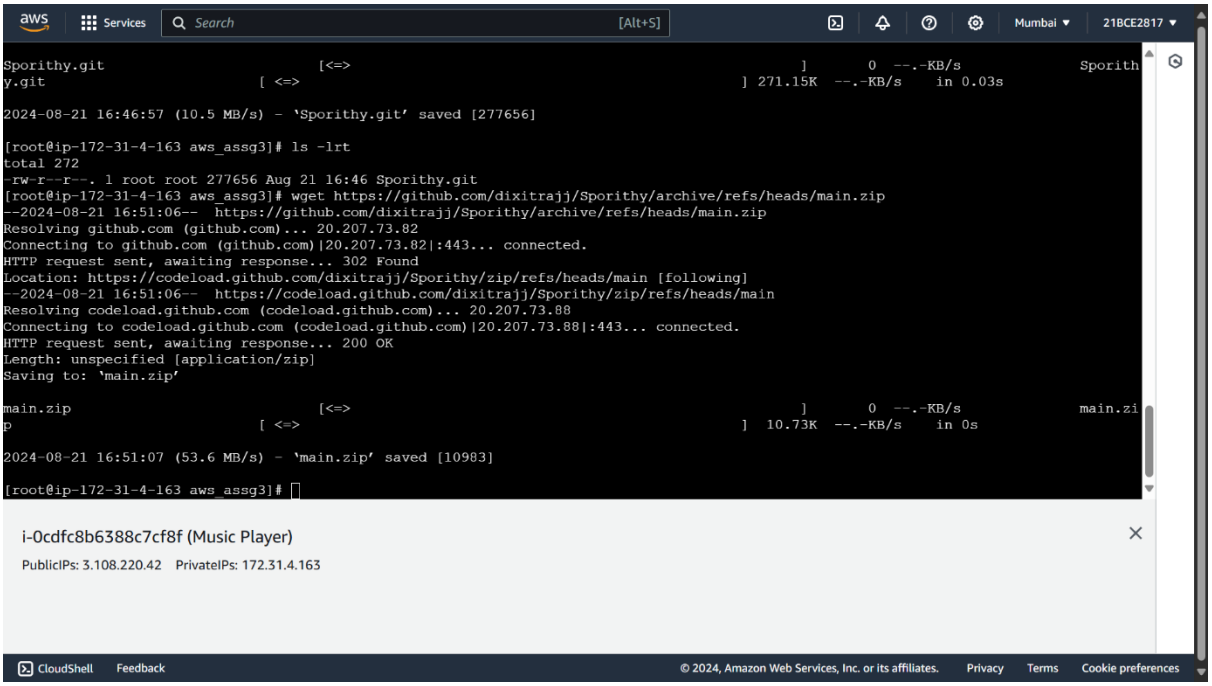
Note – The link is copied from GitHub under Code->HTTPS and link which is copied is used for cloning through web URL.



Step 8: Enter Command ‘ls -lrt’.

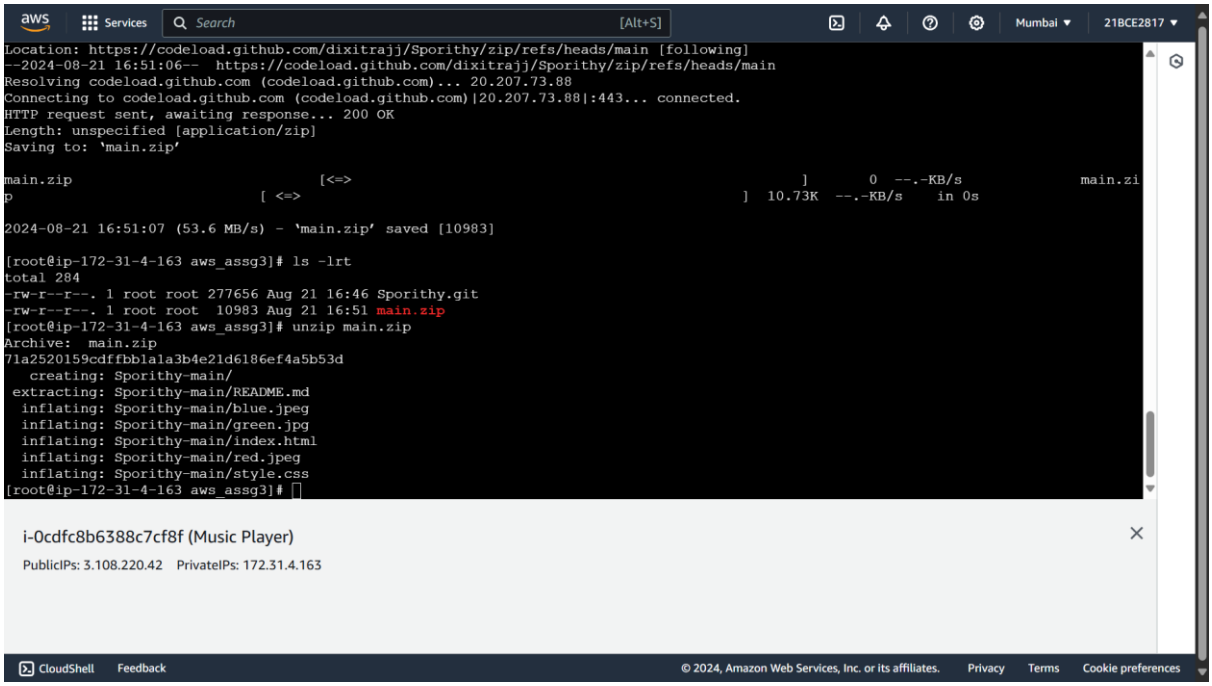
Step 9: Enter Command ’wget https://github.com/dixitrajj/Sporithy/archive/refs/heads/main.zip’.

Note - The link is the link of the download Zip from GitHub of the repository which you want to deploy through EC2 Instance.



Step 10: Enter Command ‘ls -lrt’.

Step 11: Enter Command ‘unzip main.zip’.



Step 12: Enter Command ‘ls -lrt’.

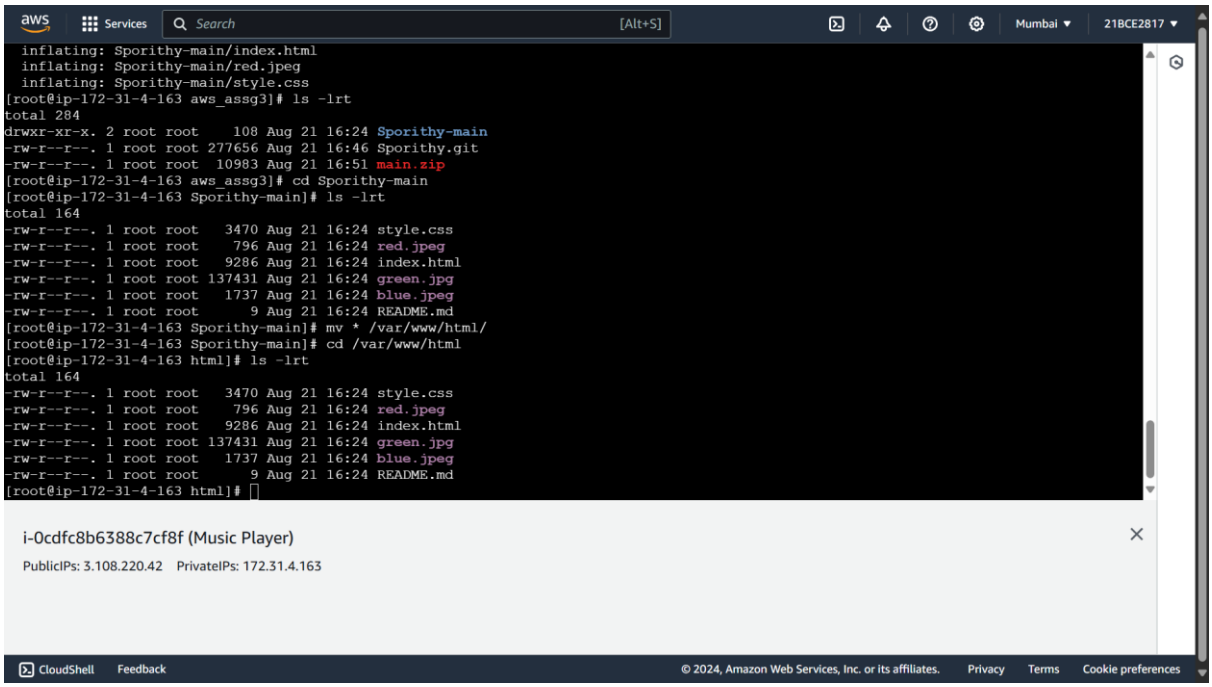
Step 13: Enter Command ‘cd Sporithy-main’.

Step 14: Enter Command ‘ls -lrt’.

Step 15: Enter Command ‘mv */var/www/html/’.

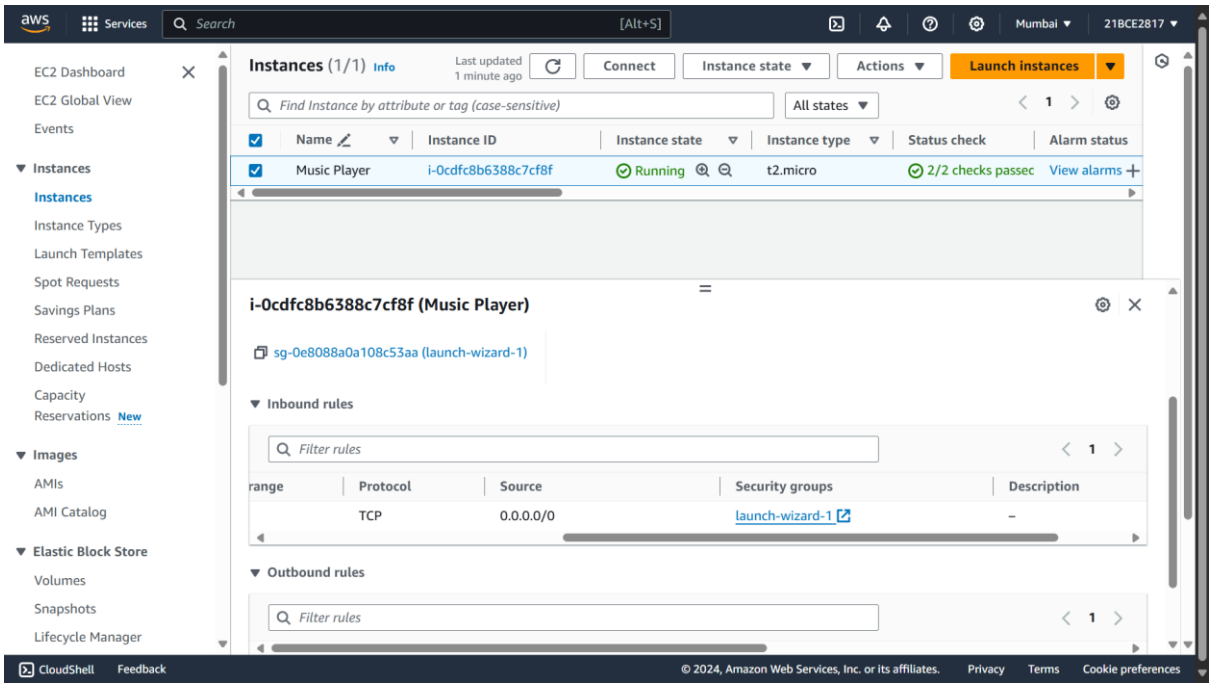
Step 16: Enter Command ‘cd /var/www/html’.

Step 17: Enter Command ‘ls -lrt’.



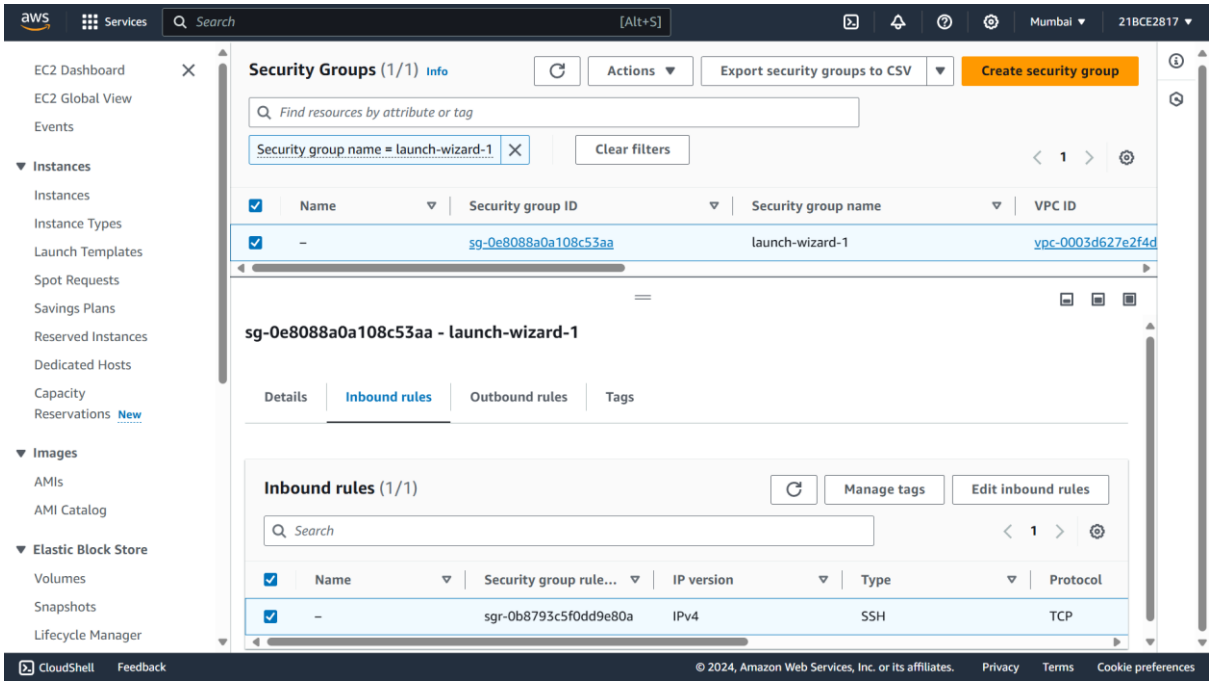
Step XI: Click on EC2 Instance then Click on Security.

Step XII: Scroll Inbound rules to the right and click on launch-wizard-1.



Step XIII: From Security group select the security group id and then select the inbound rule which we want to make changes according to our website.

Step XIV: Click on Edit Inbound rules.

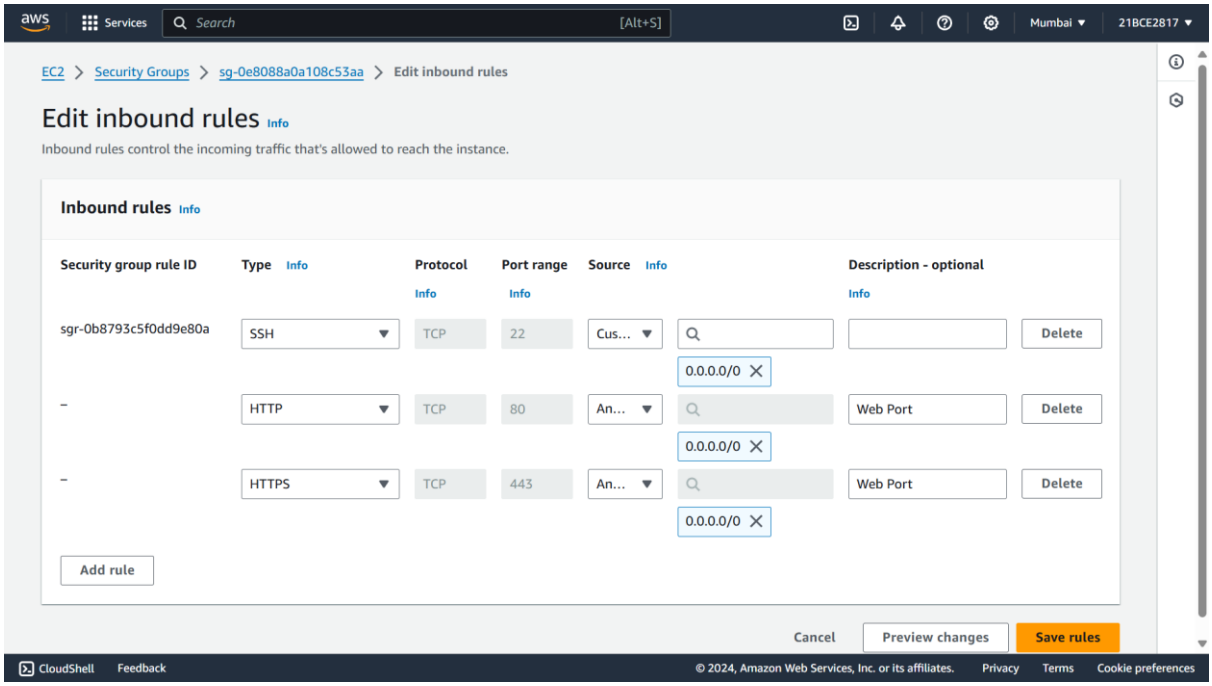


Step XV: Click on Add rule to add inbound rule.

Step XVI: Add rules as type HTTP and HTTPS and select source as any IpV4.

Step XVII: Click on Save rules to save the rule and continue.

Now, go back to the command window through which we have added the files.

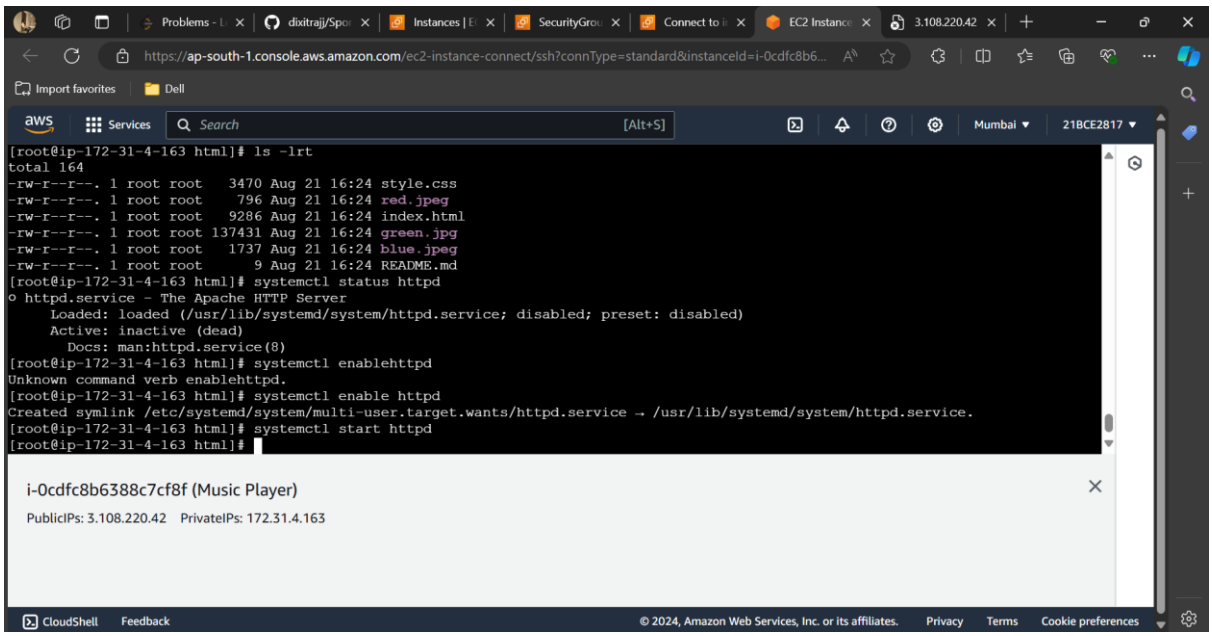


Step XVIII: Adding HTTP Rules through command window.

Step 1: Enter Command 'systemctl status httpd'.

Step 2: Enter Command 'systemctl enable httpd'.

Step 3: Enter Command 'systemctl start httpd'.



Step XIX: Refresh the Ip which you have pasted on the browser.

Now, we are able to see our content. Hence, Our Instance is now live and running.