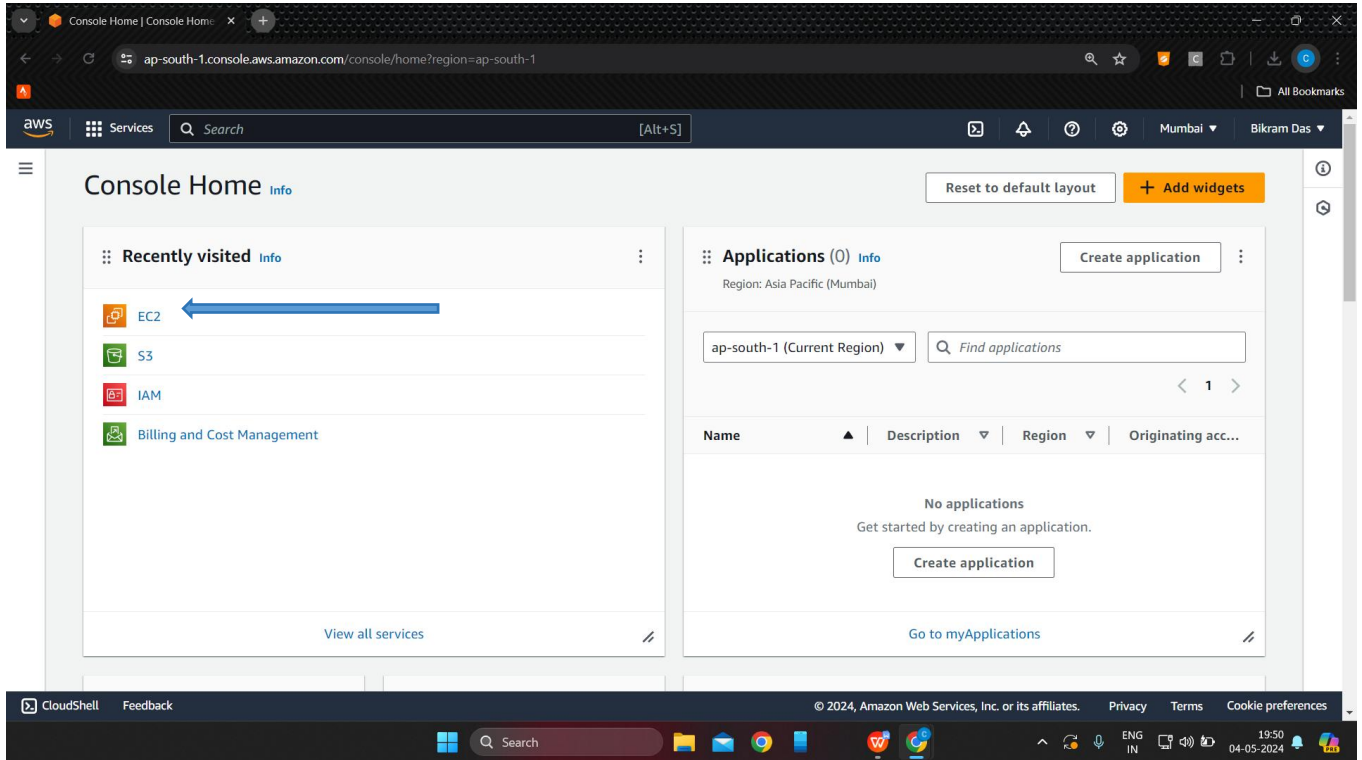


# ASSIGNMENT 9

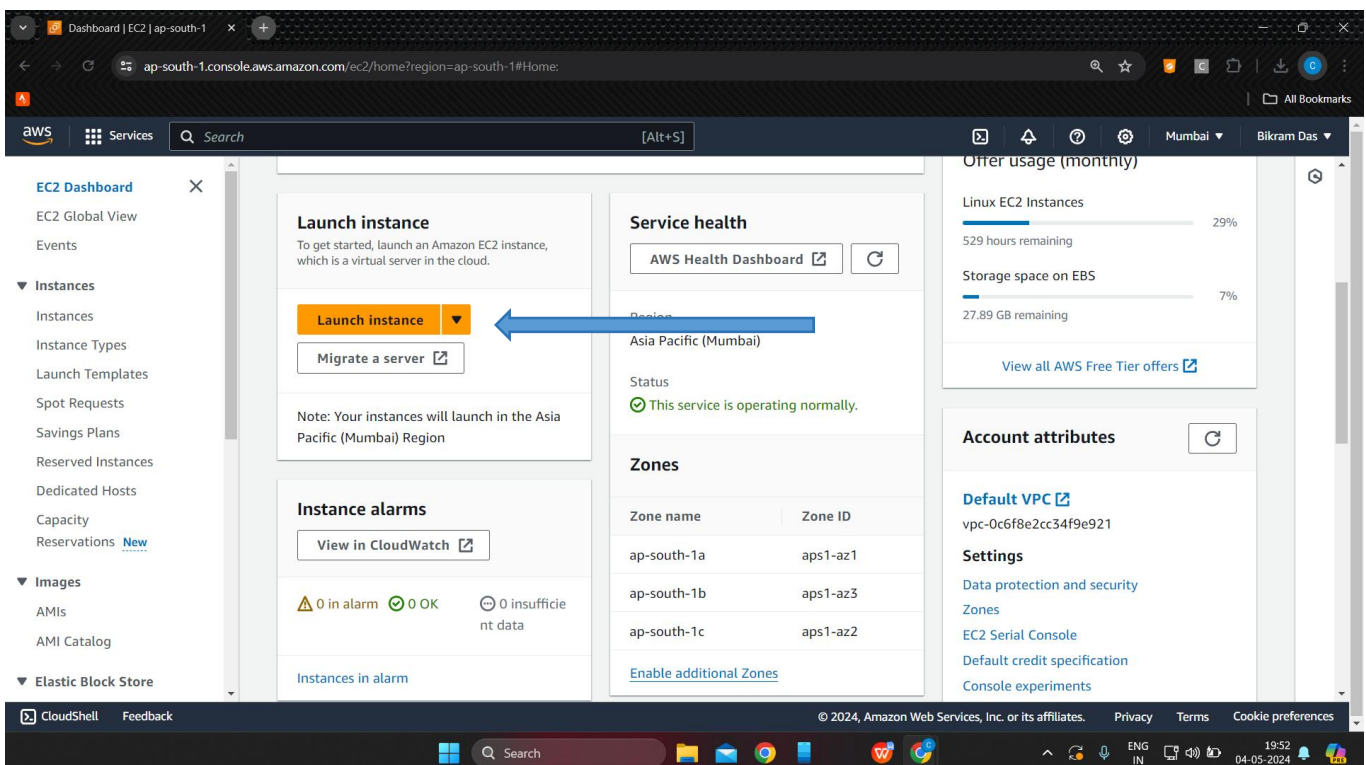
**PROBLEM STATEMENT ->** Deploy a project from GitHub to EC2.

- **To Deploy the project --->**

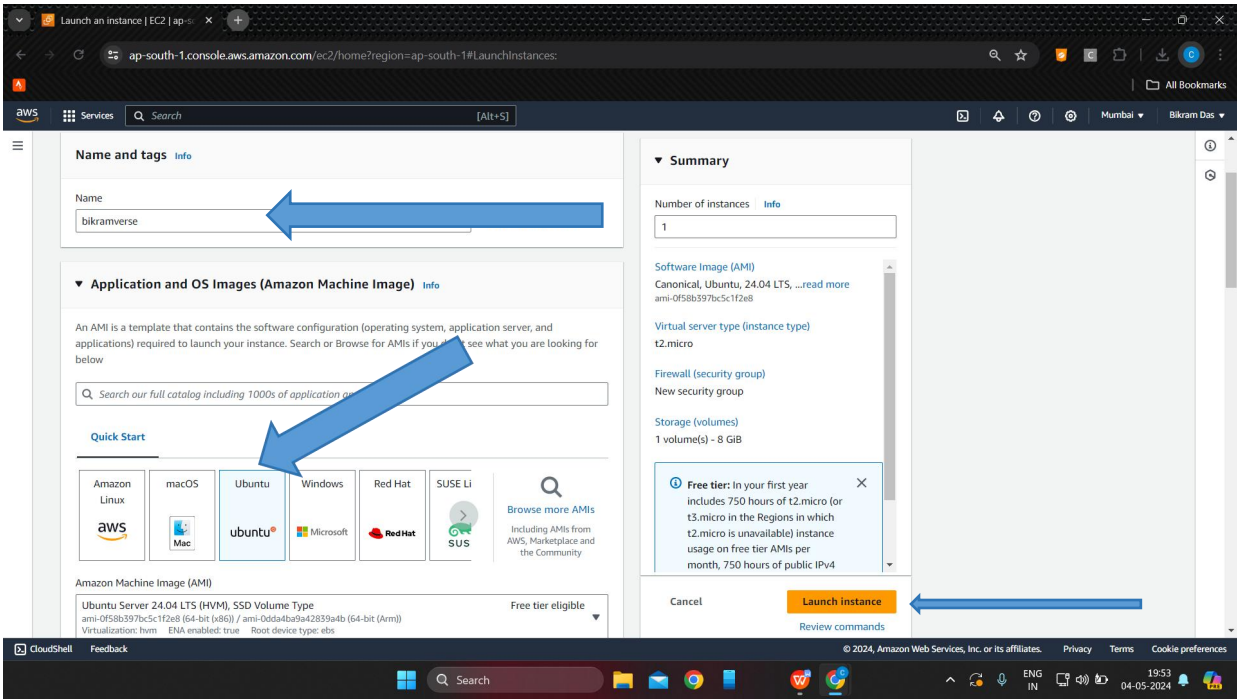
**STEP 1->** Select EC2 option.



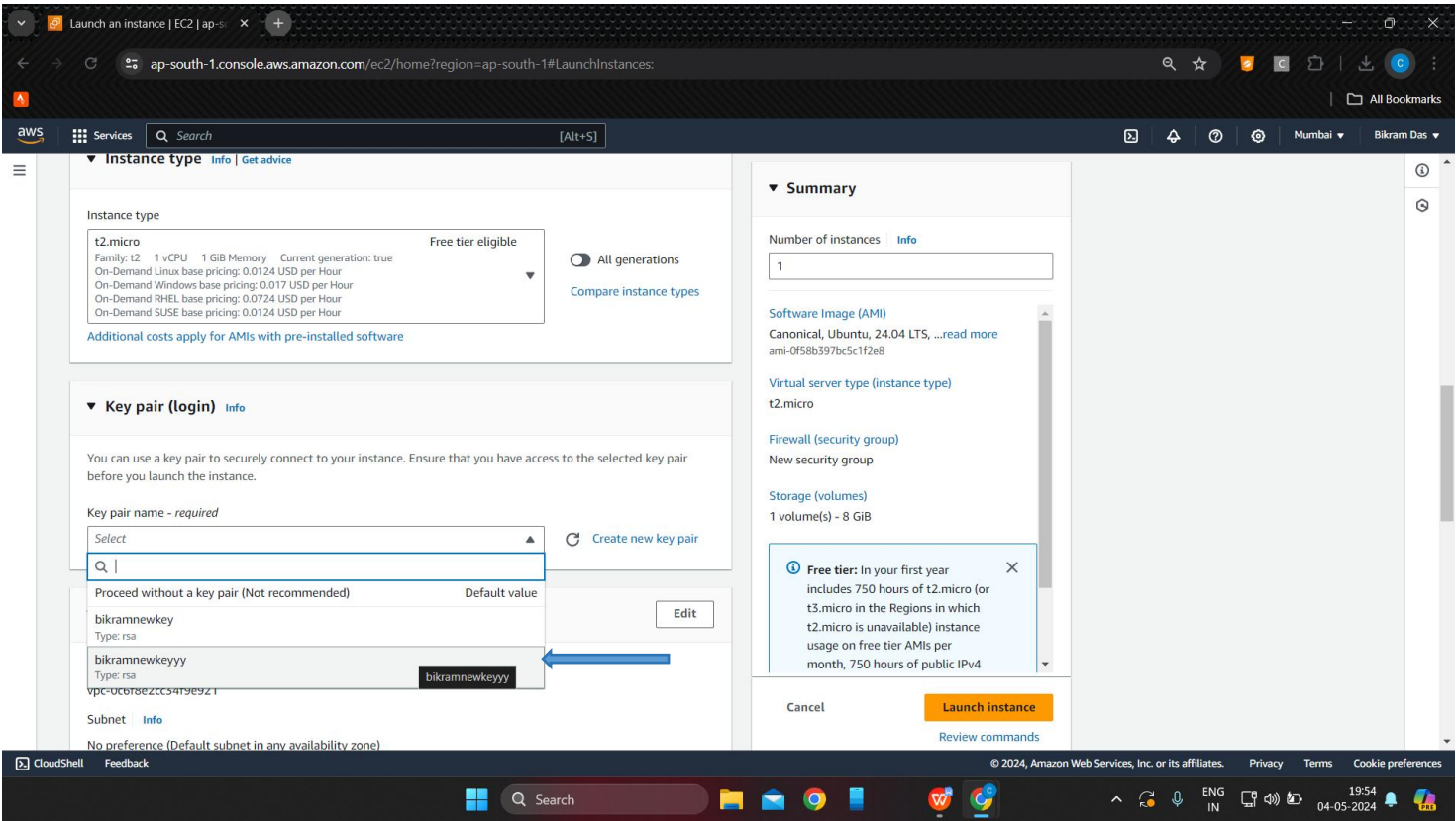
**STEP 2->** Click on Launch Instance.



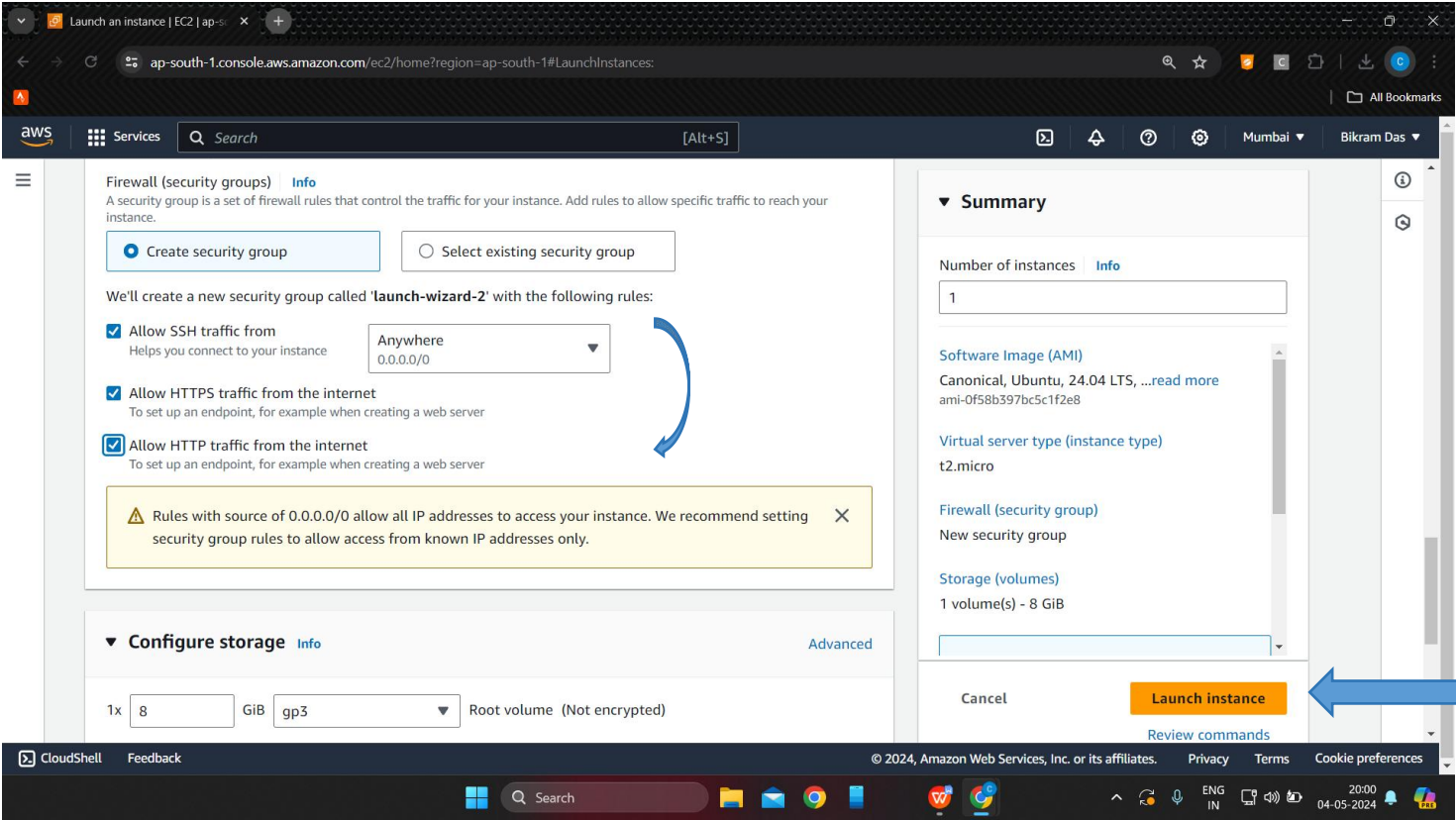
STEP 3-> Give a unique name to the instance and select Ubuntu



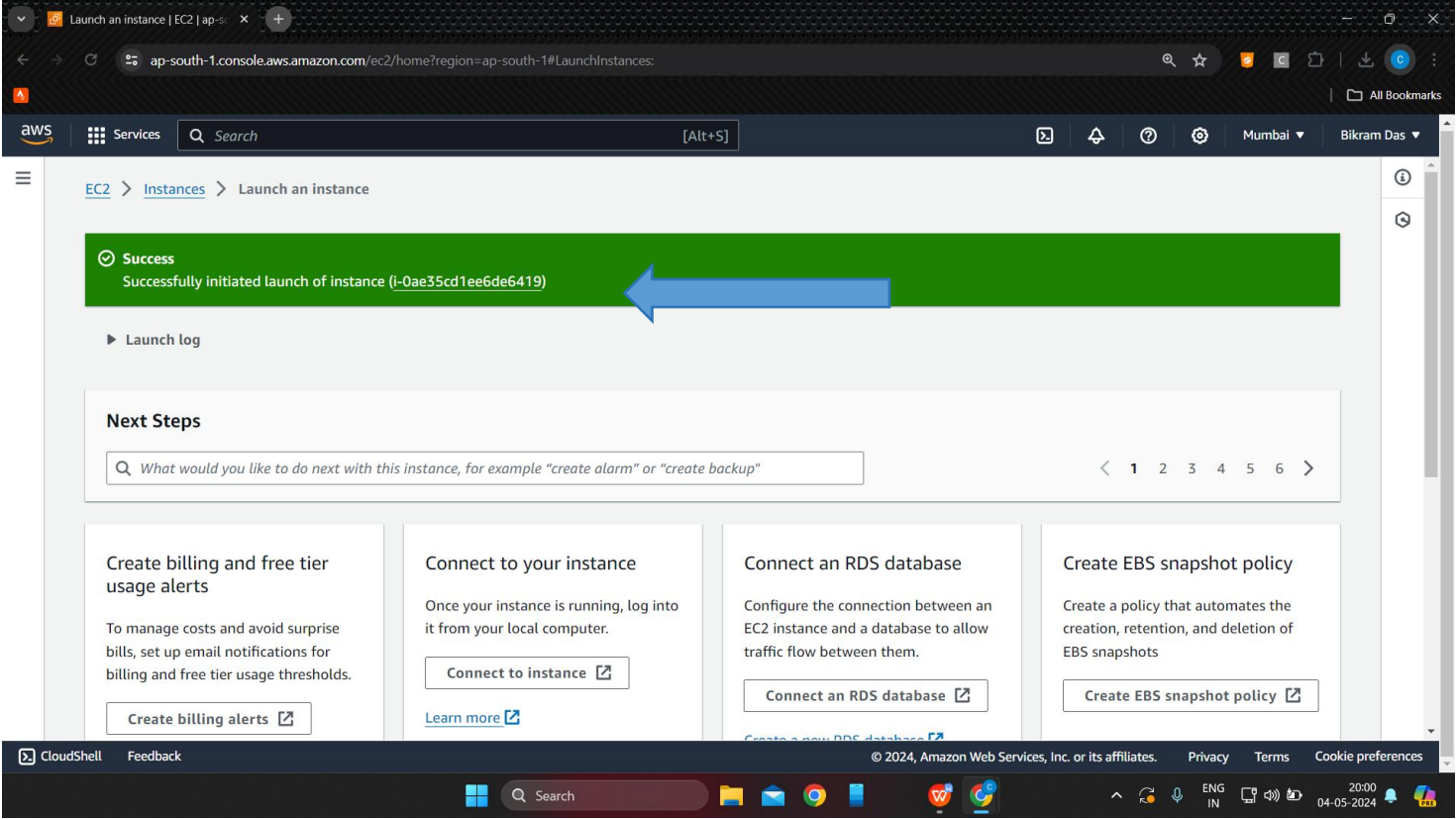
STEP 4-> Select the key from the list or create a new one



**STEP 5->** Check all the 3 check boxes under the Network Settings. Then click on Launch Instance.

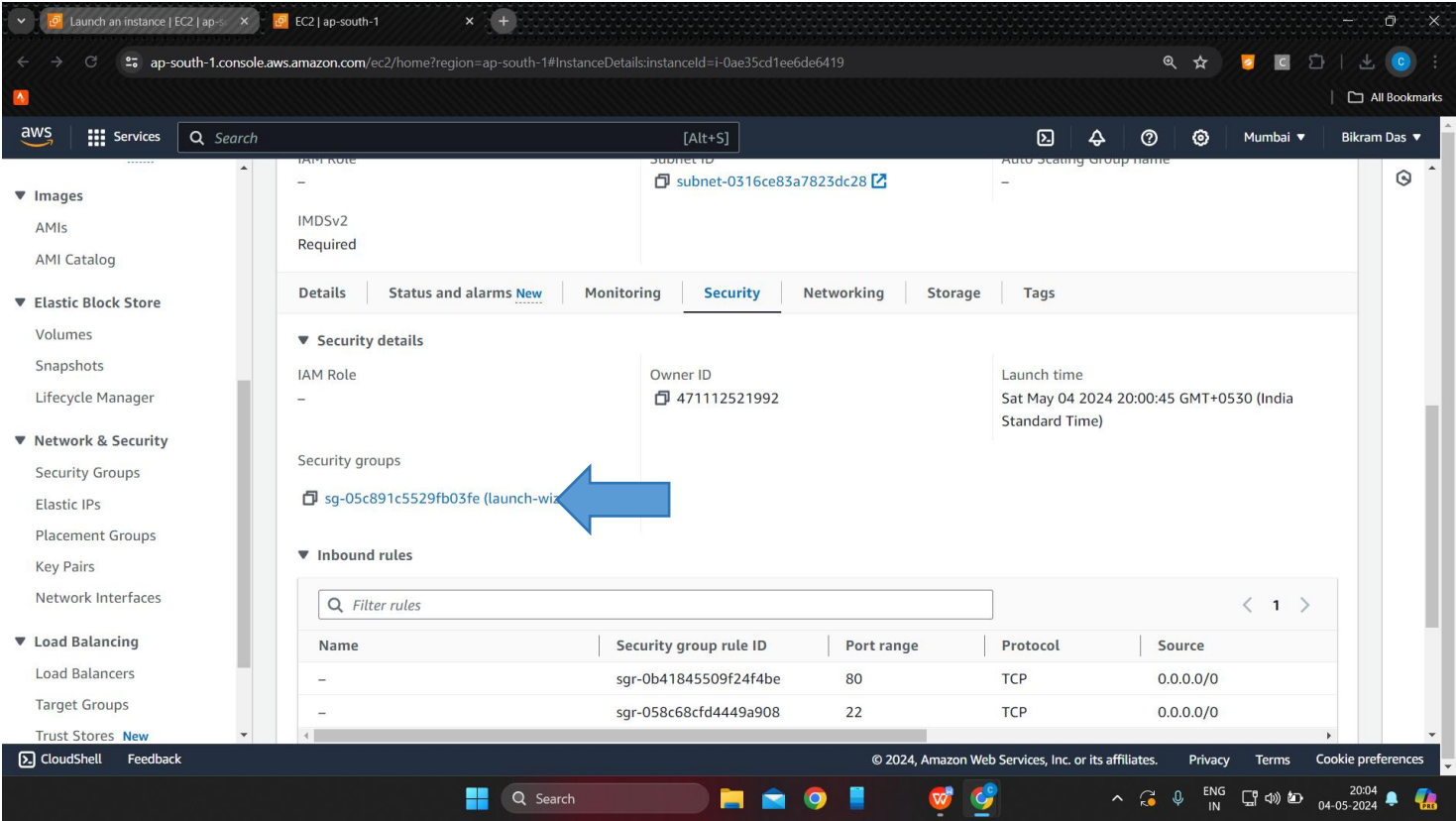


**STEP 6->** Click on instance id to enter into the instance.

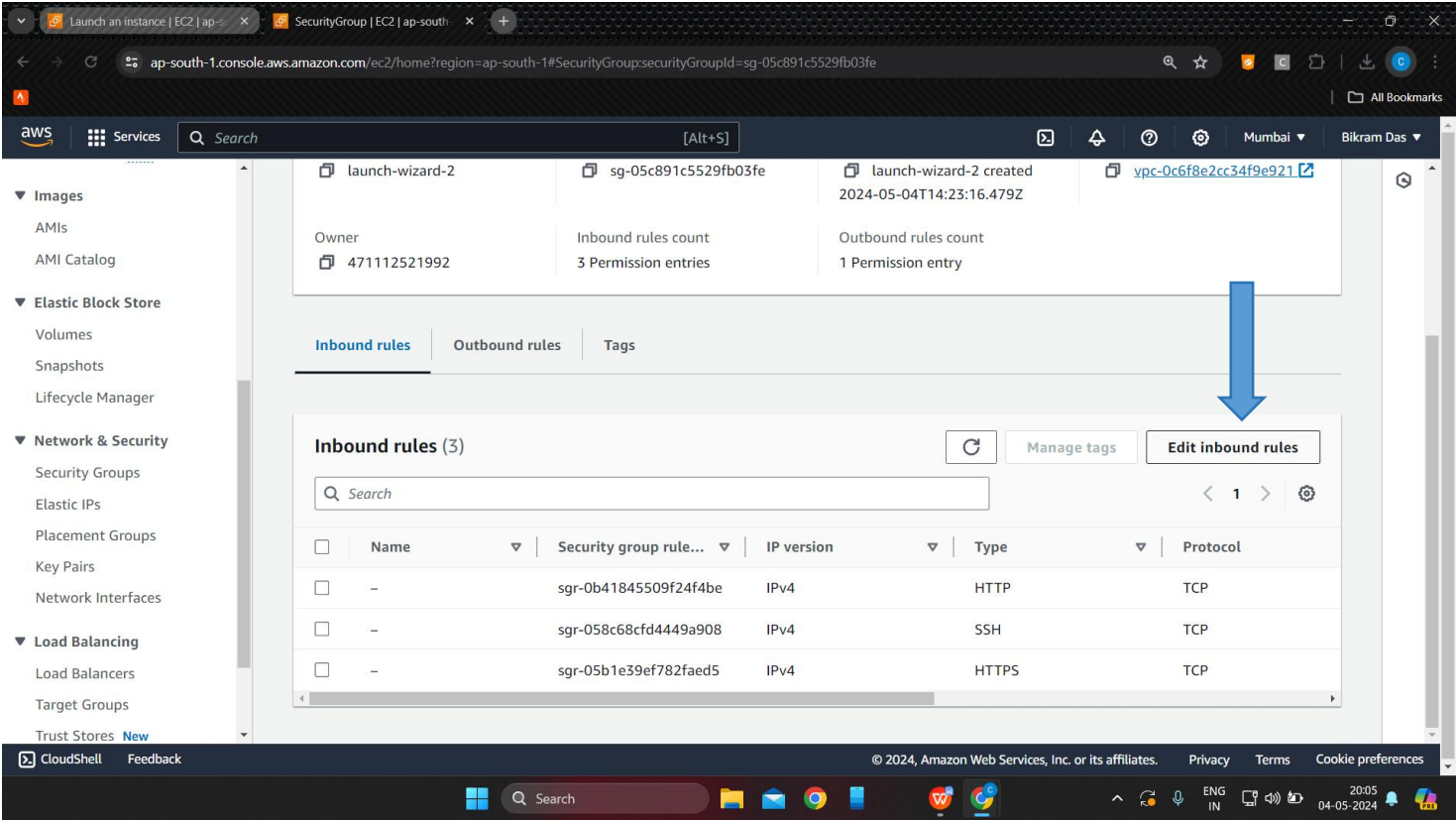




STEP 7-> Select the Security option & Click on the security groupID.



STEP 8->Click on Edit Inbound Rules



**STEP 9->** Click on Add Rules button after which give the port no. 4000, insource info give 0.0.0.0/0. Then click on Save Rules.

Launch an instance | EC2 | ap-south-1 | Modify Inbound Security Group Rules | securityGroupId=sg-05c891c5529fb03fe

aws Services Search [Alt+S] Mumbai Bikram Das

Rule ID	Protocol	Port Range	Source	Action
sgr-0b41845509f24f4be	HTTP	TCP 80	0.0.0.0/0	Delete
sgr-058c68cfd4449a908	SSH	TCP 22	0.0.0.0/0	Delete
sgr-05b1e39ef782faed5	HTTPS	TCP 443	0.0.0.0/0	Delete
	Custom TCP	TCP 4000	0.0.0.0/0	Delete

Add rule

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

Cancel Save rules

**STEP 10->** Go back into the instance and copy the Public IPv4 Address.

Launch an instance | EC2 | ap-south-1 | Instance details | i-0ae35cd1ee6de6419

aws Services Search [Alt+S] Mumbai Bikram Das

EC2 Dashboard EC2 Global View Events

Instances

Instance summary for i-0ae35cd1ee6de6419 (bikramverse) Info Connect Instance state Actions

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0ae35cd1ee6de6419 (bikramverse)	3.111.33.134   open address   Copy public IPv4 address to clipboard	172.31.8.166

Instance state: Running

Public IPv4 DNS: ec2-3-111-33-134.ap-south-1.compute.amazonaws.com | open address

Private IP DNS name (IPv4 only): ip-172-31-8-166.ap-south-1.compute.internal

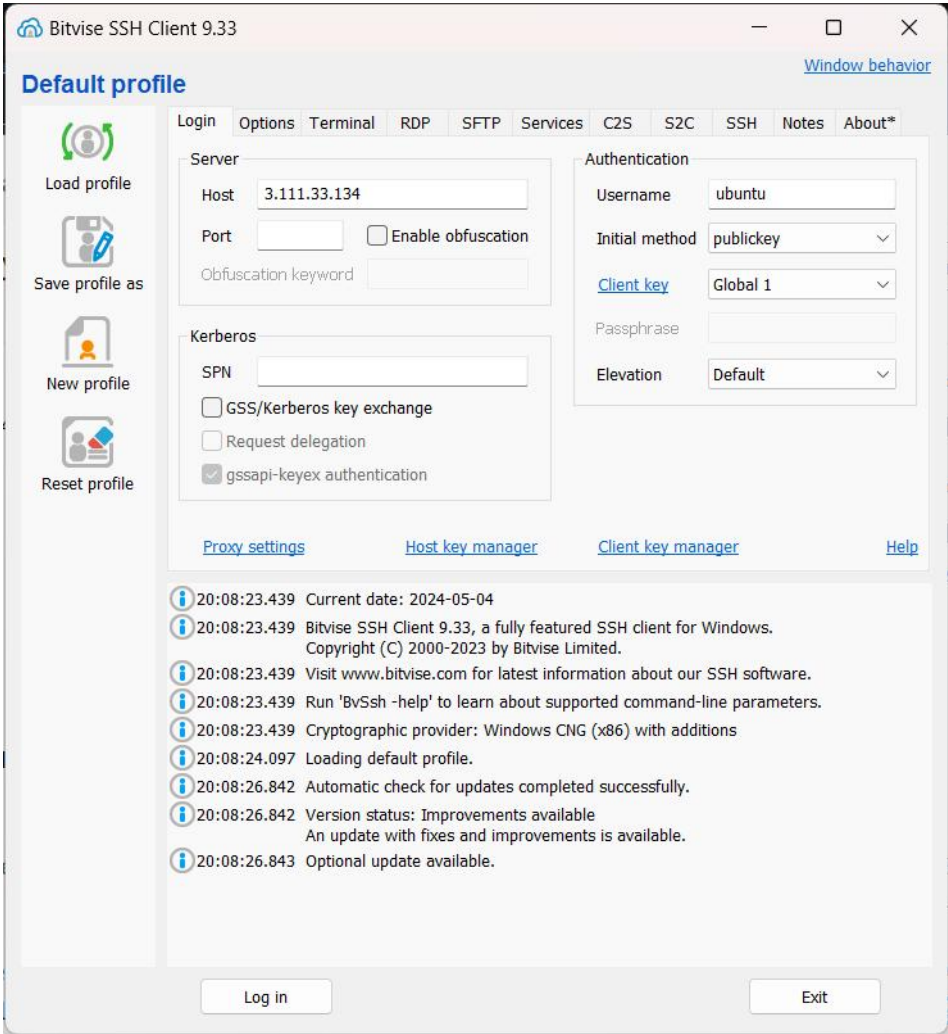
Instance type: t2.micro

VPC ID: vpc-0c6f8e2cc34f9e921

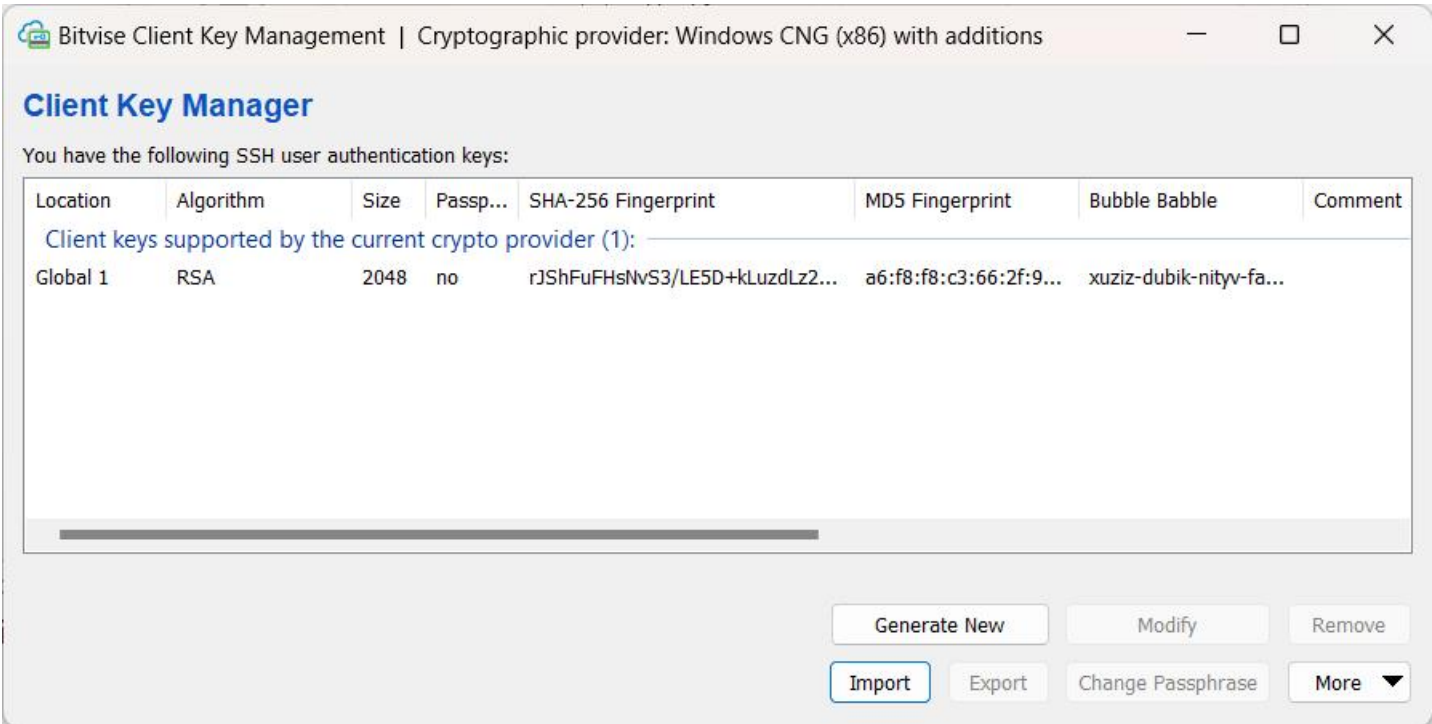
Auto-assigned IP address: 3.111.33.134 [Public IP]

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

**STEP 11->** Paste the address under the host tab. Under the Authenticationtab, give the username as ubuntu, Initial method as publickey. Then clickonClientKey Manager.

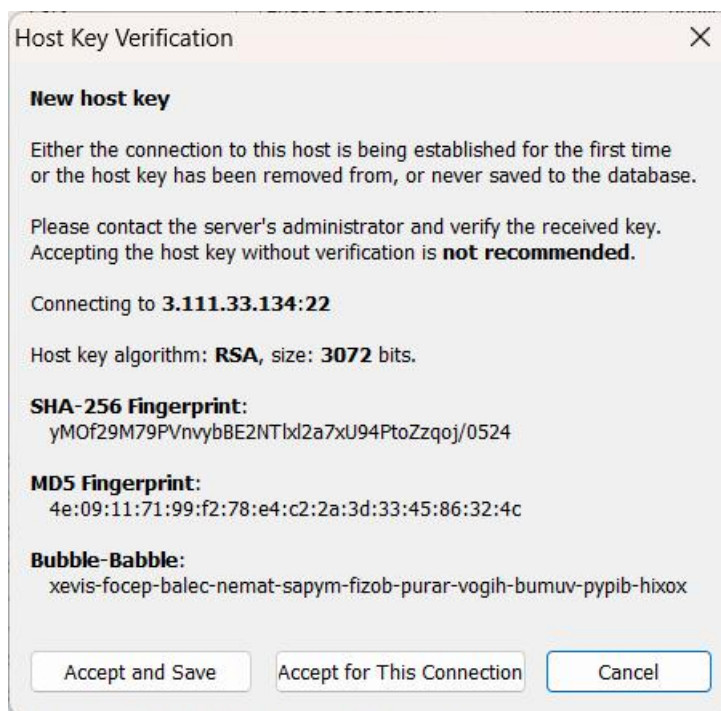


**STEP 12->** Remove any previously selected key if any, the click onImport. Select the key using which instance was created. Then close the window.

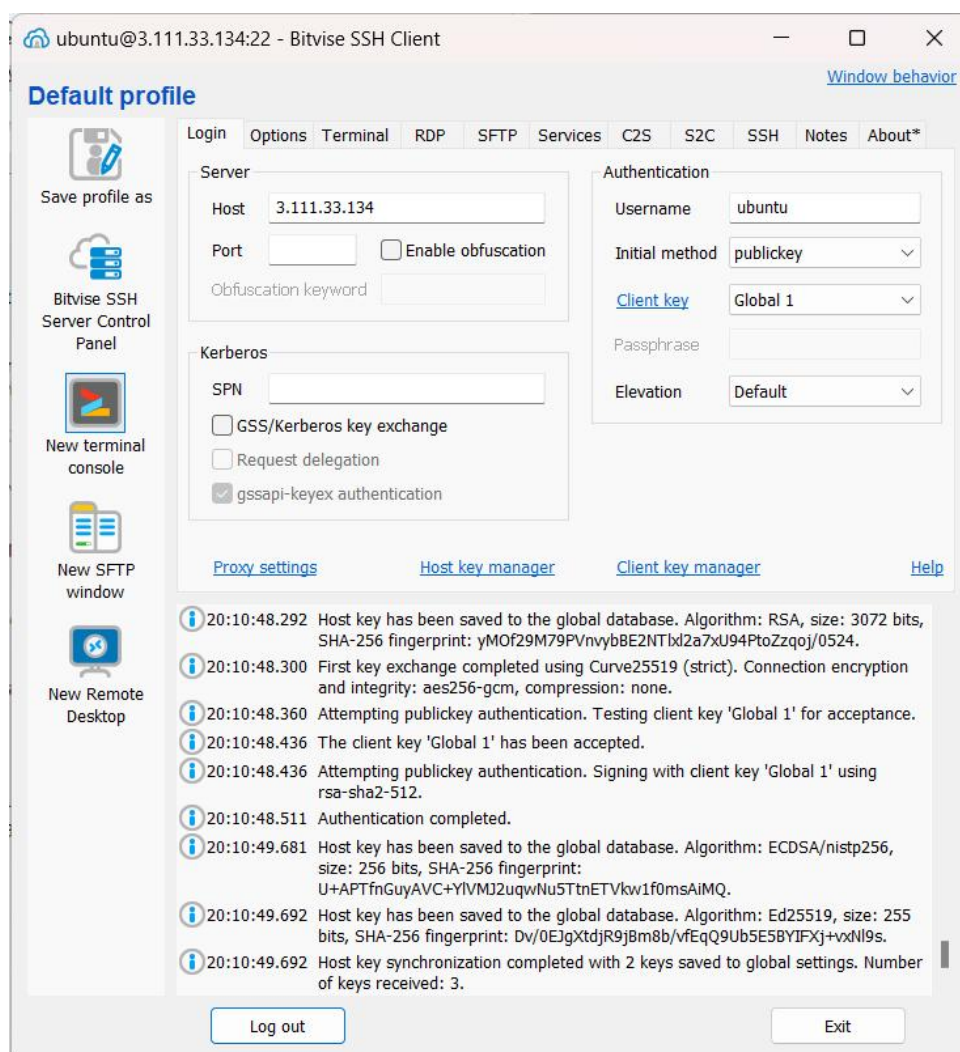




**STEP 13->** Click on Login after that in host key verification click accept and save.



**STEP 14->** Open a new terminal by clicking on New Terminal Console.

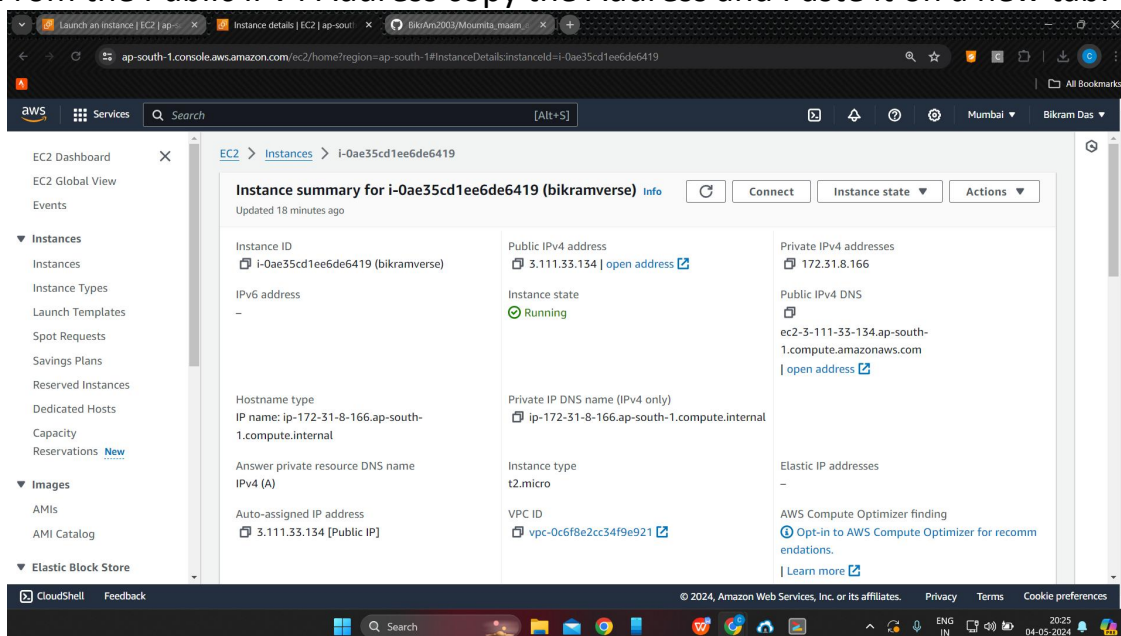


**STEP 15->** In the console type the following commands in sequential order:

```
ubuntu@13.51.200.9:22 - Bitwise xterm - ubuntu@ip-172-31-40-254: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-40-254:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-40-254:~$ sudo apt-get update
ubuntu@ip-172-31-40-254:~$ sudo apt-get upgrade
ubuntu@ip-172-31-40-254:~$ sudo apt-get install nginx
ubuntu@ip-172-31-40-254:~$ nginx -v
nginx version: nginx/1.18.0 (Ubuntu)
ubuntu@ip-172-31-40-254:~$ curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -
ubuntu@ip-172-31-40-254:~$ sudo apt install nodejs
ubuntu@ip-172-31-8-166:~$ git clone https://github.com/BikrAm2003/Moumita_maam_aws_repo.git
Cloning into 'Moumita_maam_aws_repo'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
ubuntu@ip-172-31-8-166:~$ cd Moumita_maam_aws_repo
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ ls
'New Text Document.txt'  index.js  package.json
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm install
receiving objects: 100% (0/0), done.
ubuntu@ip-172-31-8-166:~$ cd Moumita_maam_aws_repo
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ ls
'New Text Document.txt'  index.js  package.json
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm install
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm -v
8.19.4
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ node index.js
Started server
```

**STEP 16->** From the Public IPv4 Address copy the Address and Paste it on a new tab.



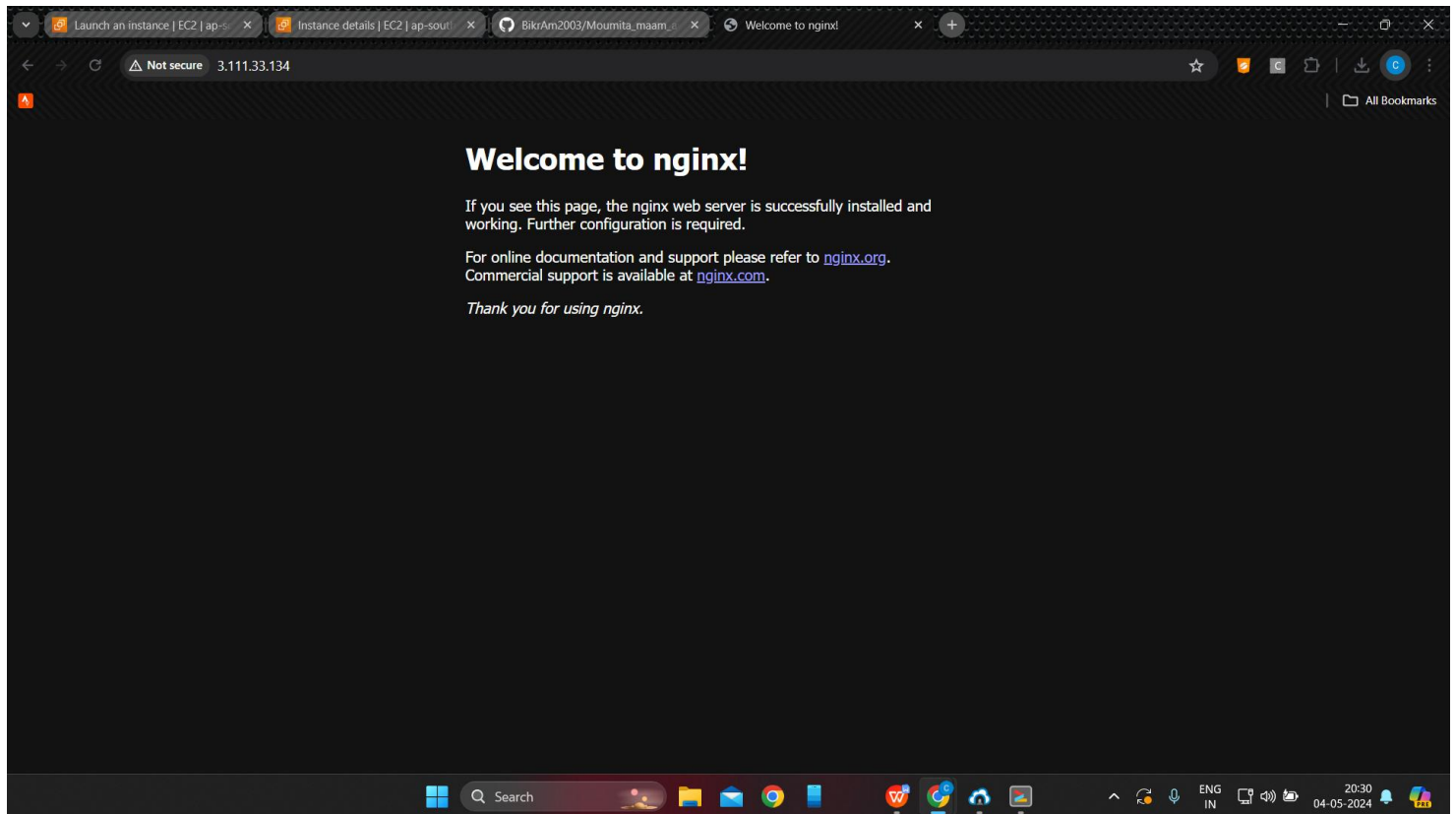
The screenshot shows the AWS Management Console interface. The main content area displays the 'Instance summary for i-0ae35cd1ee6de6419 (bikramverse)'. The instance is in the 'Running' state. Key details include:

- Instance ID:** i-0ae35cd1ee6de6419 (bikramverse)
- Public IPv4 address:** 3.111.33.134 | [open address](#)
- Private IPv4 addresses:** 172.31.8.166
- Public IPv4 DNS:** ec2-3-111-33-134.ap-south-1.compute.amazonaws.com | [open address](#)
- Private IP DNS name (IPv4 only):** ip-172-31-8-166.ap-south-1.compute.internal
- Instance type:** t2.micro
- VPC ID:** vpc-0c6f8e2cc34f9e921 | [open address](#)
- Auto-assigned IP address:** 3.111.33.134 [Public IP]

The left sidebar shows the navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity, Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 20:25 on 04-05-2024.



**STEP 17->** Nginx window will open. Now add :4000 at the end of the IPv4Address.



**STEP 18->** The Nodejs file content will be visible.

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Hello mckv