

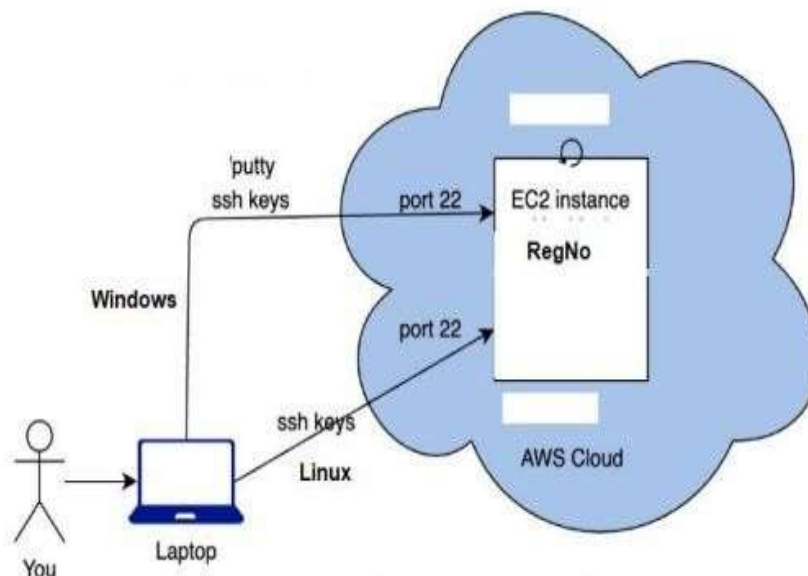
Tejas Rokade

20BDS0033

L45+L46

## LAB ASSESSMENT 2

1. Create an EC2 Instance in the Amazon Web Services and perform the following operation onto that instance. Name the instance with your RegNo.

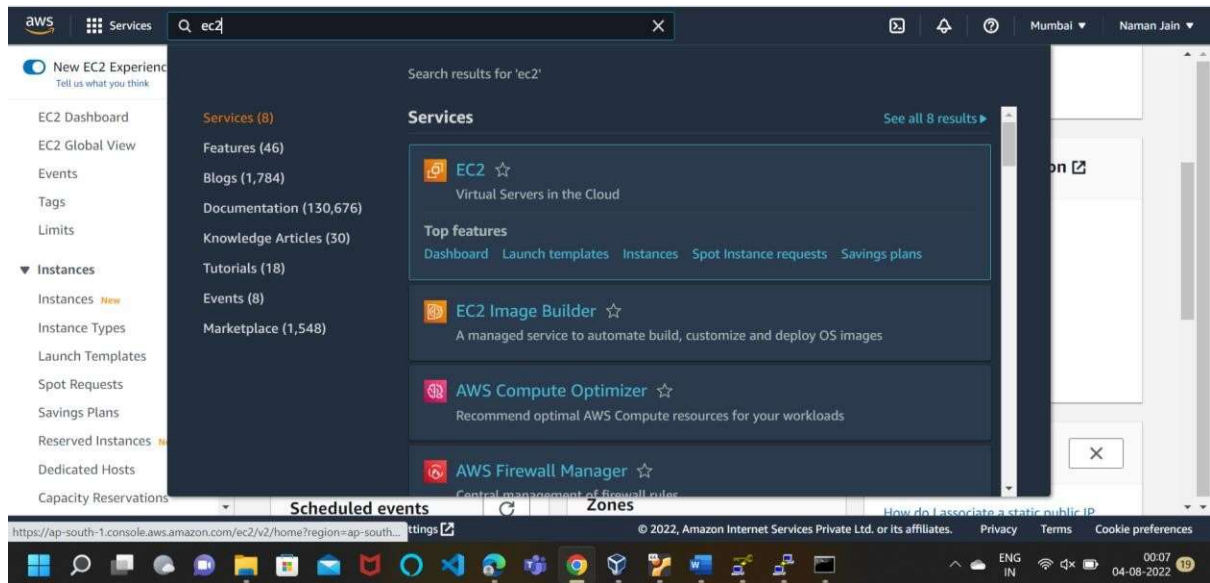


### How to Connect from your local machine to EC2 instance running in AWS?

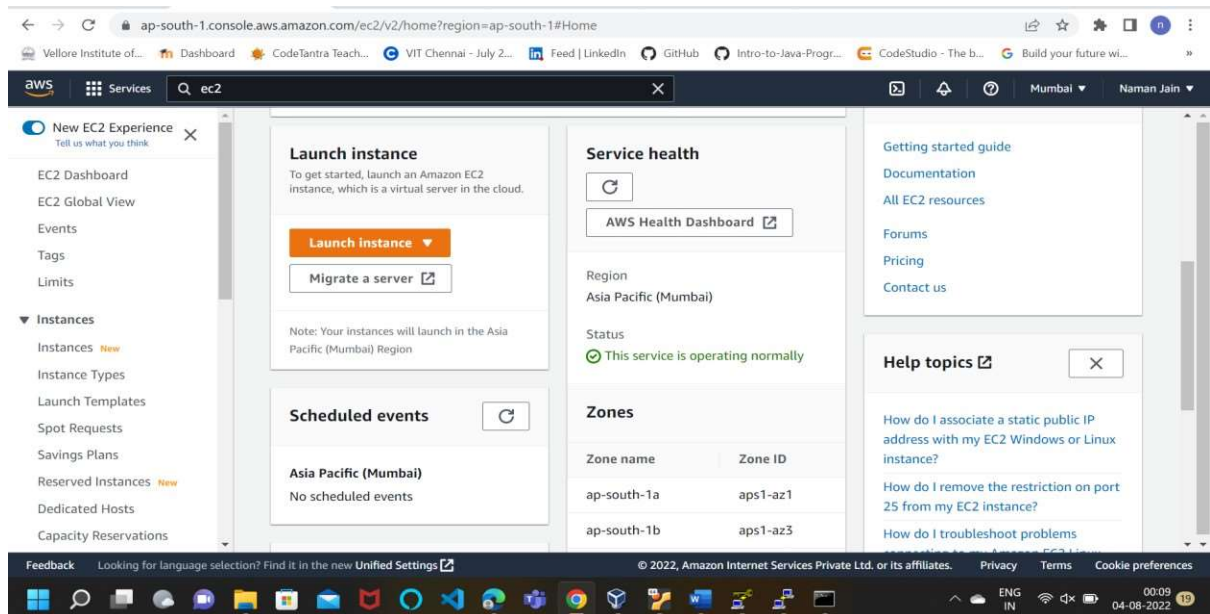
- Connect the Instance through Putty through Windows using the Key pair created during the instance launch
- Connect the same instance through your Ubuntu VM running on your machine using SSH protocol
- Update the OS
- Install the "C" Compiler
- Create a Directory with your Register No
- Type a c program to perform addition of two numbers and save it as yourshortname.c in the Folder you created
- Compile the C Program and Run the C Program

Sign up to the amazon

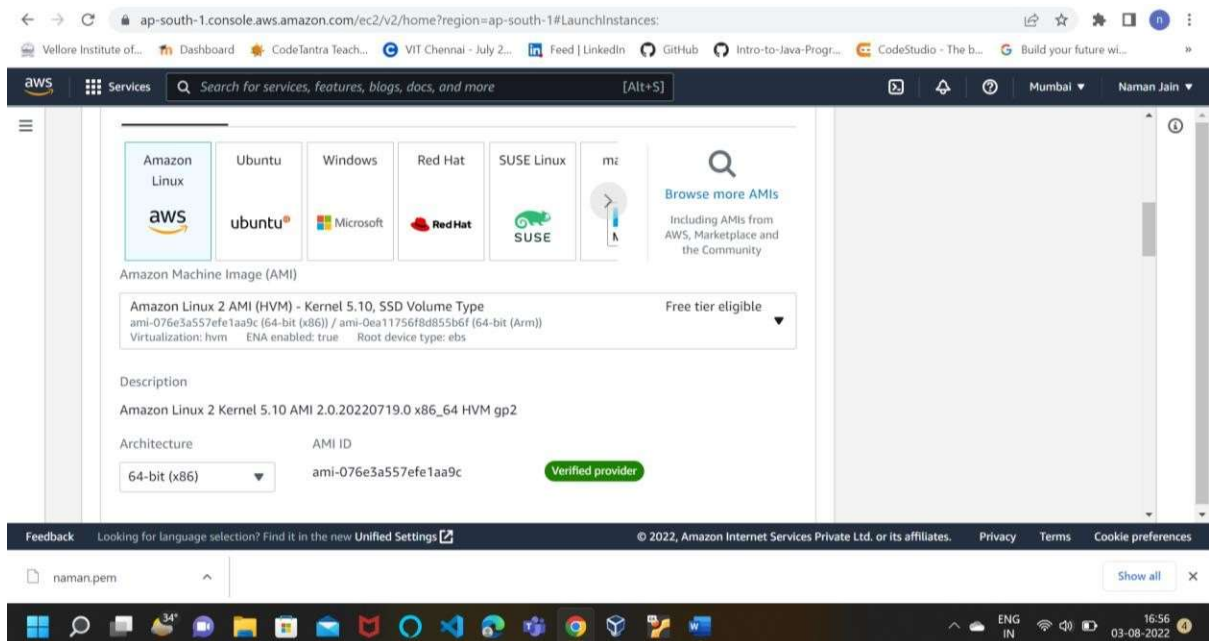
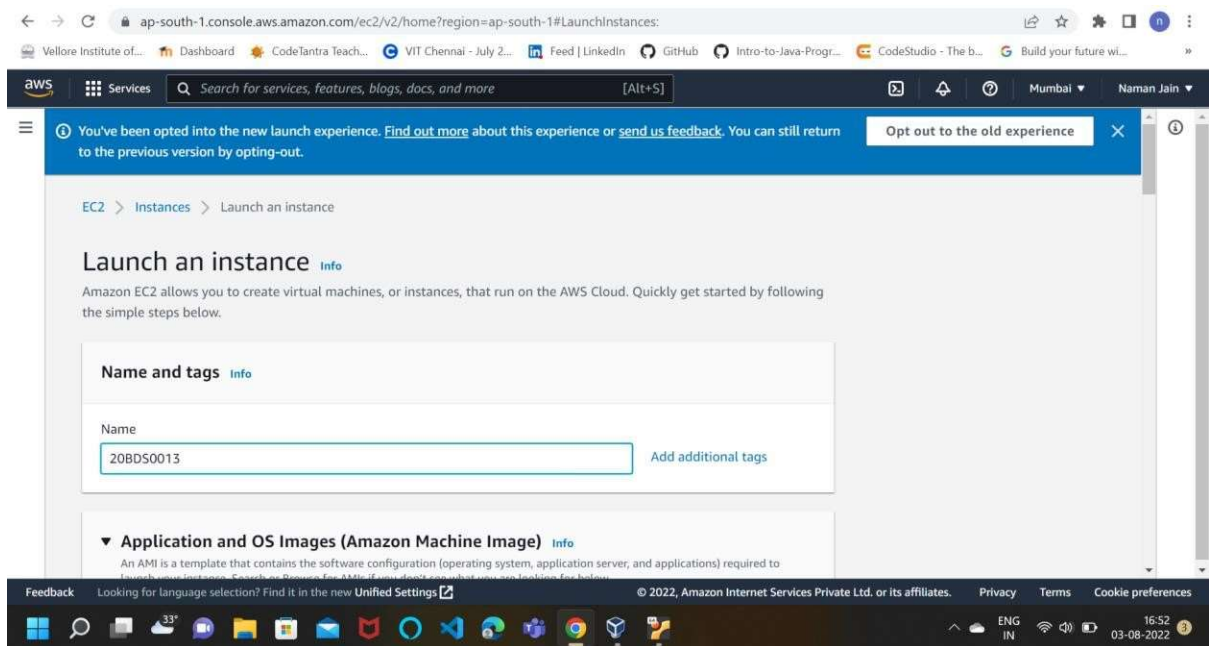
In the search for EC2 and click on EC2



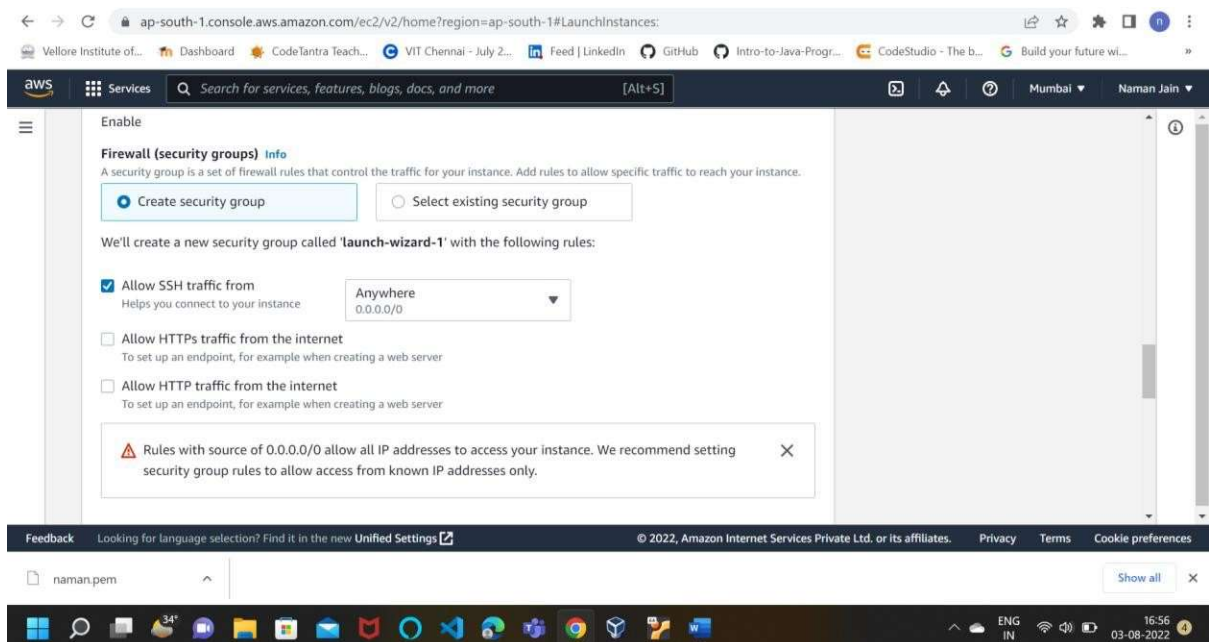
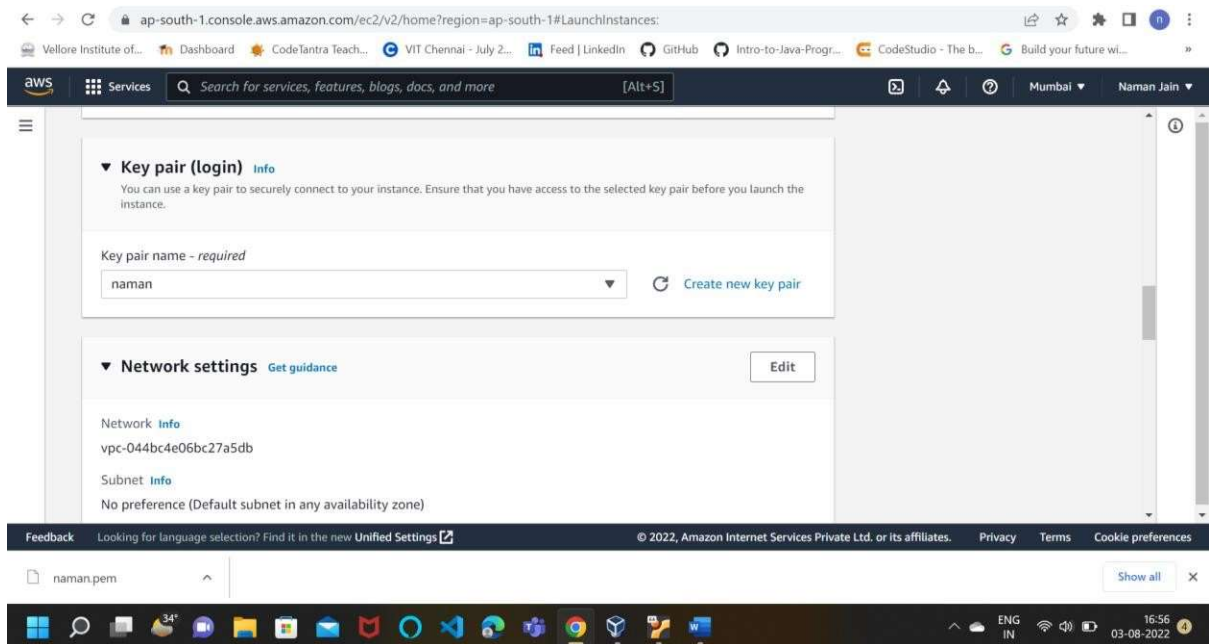
Scroll down to launch instance and create a new instance

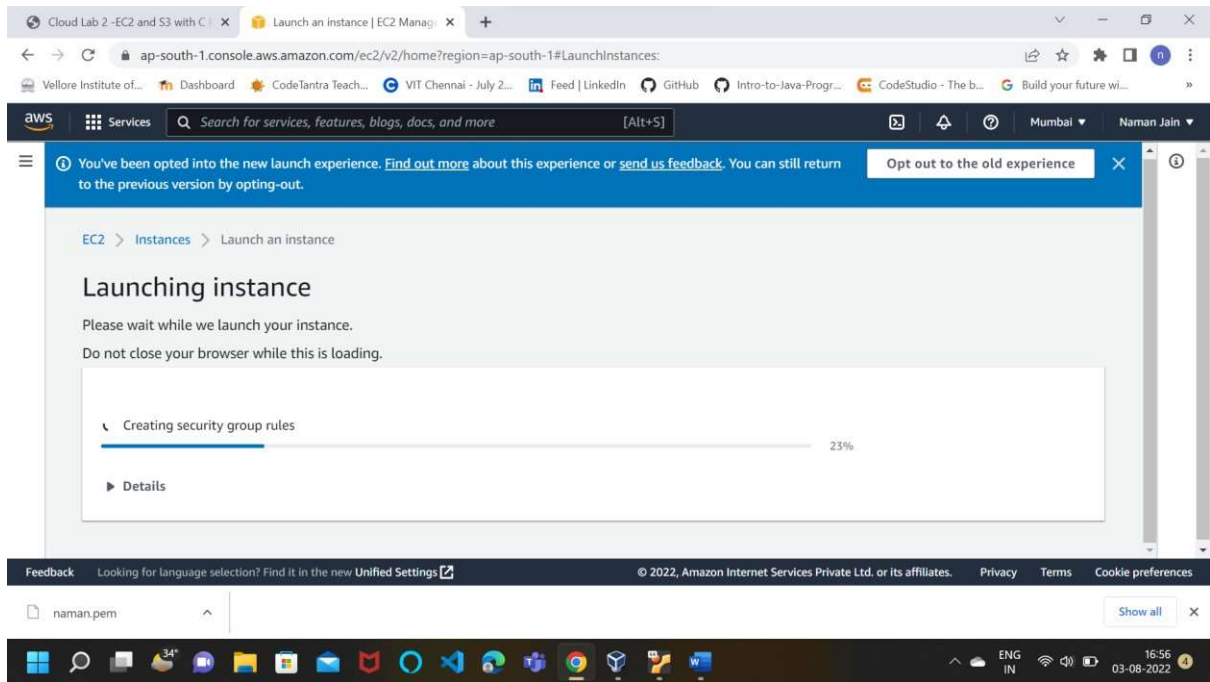


## Enter the name of the instance

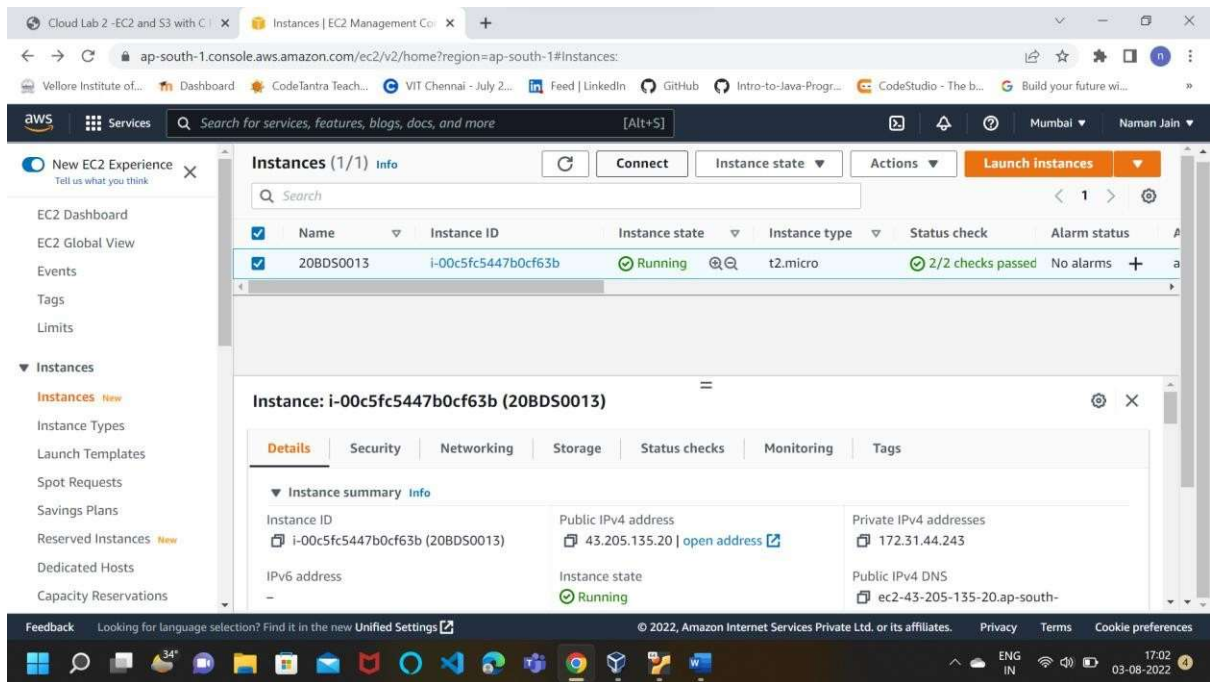


Create new key pair and download .pem file and share this file in to the ubuntu vm



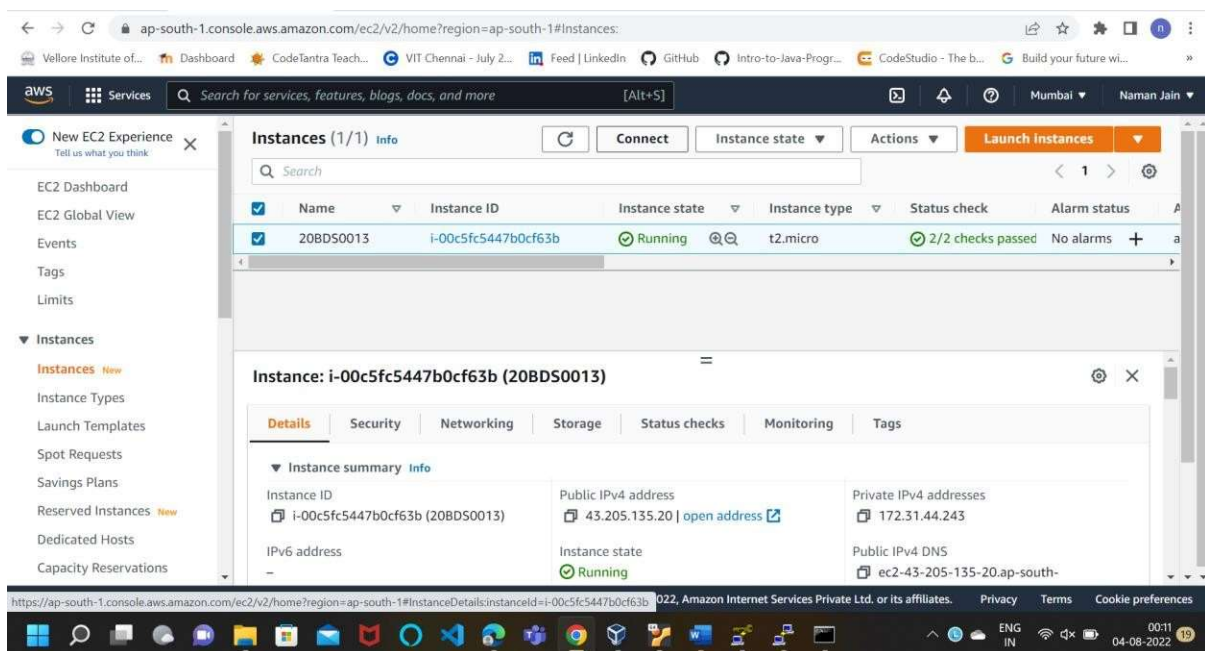


A new instance will be created





Click on the new instance (check box) created and click on connect



The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page displays a table with one instance, '20BD50013', which is in the 'Running' state. The instance details panel shows the public IP address as 43.205.135.20. The 'Connect' button is visible in the top right corner of the instance details panel.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
20BD50013	i-00c5fc5447b0cf63b	Running	t2.micro	2/2 checks passed	No alarms

Instance: i-00c5fc5447b0cf63b (20BD50013)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

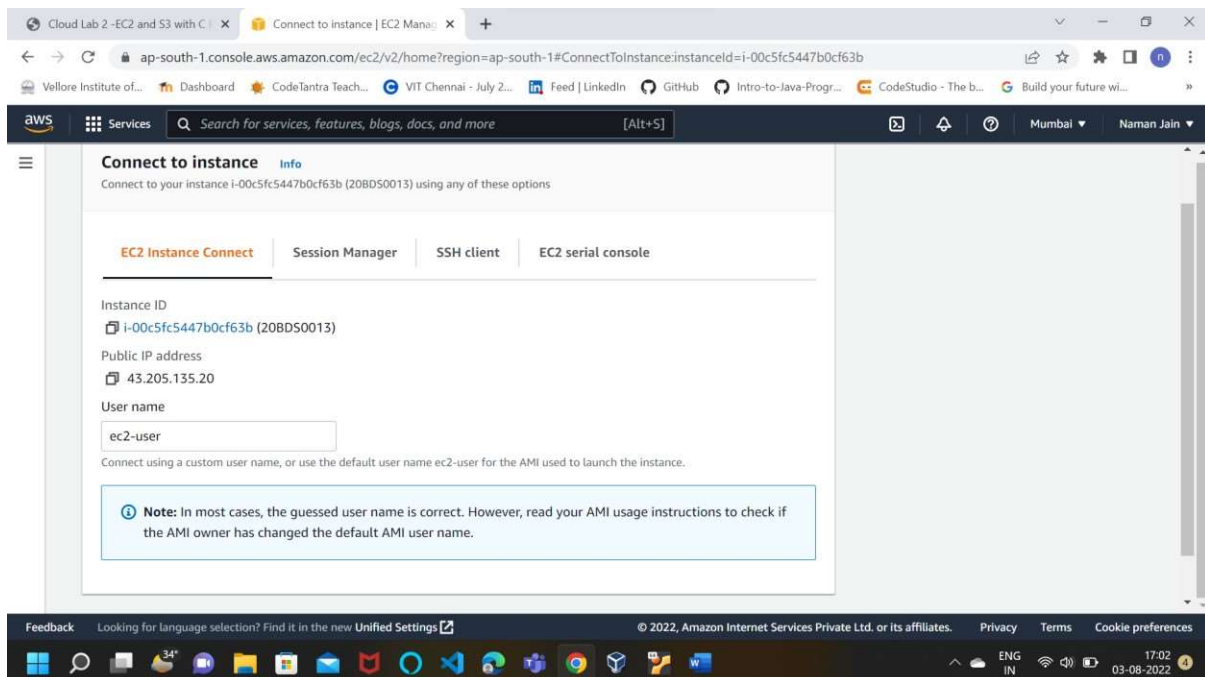
Instance ID	Public IPv4 address	Private IPv4 addresses
i-00c5fc5447b0cf63b (20BD50013)	43.205.135.20   open address	172.31.44.243

IPv6 address: -

Instance state: Running

Public IPv4 DNS: ec2-43-205-135-20.ap-south-

After clicking on connect go to EC2 Instance Connect



The screenshot shows the 'Connect to instance' page in the AWS Management Console. The page displays the instance ID 'i-00c5fc5447b0cf63b (20BD50013)' and the public IP address '43.205.135.20'. The 'User name' field is set to 'ec2-user'. The 'EC2 Instance Connect' tab is active, and the 'Session Manager' tab is also visible. A note at the bottom states: 'Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.'

Connect to instance Info

Connect to your instance i-00c5fc5447b0cf63b (20BD50013) using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID: i-00c5fc5447b0cf63b (20BD50013)

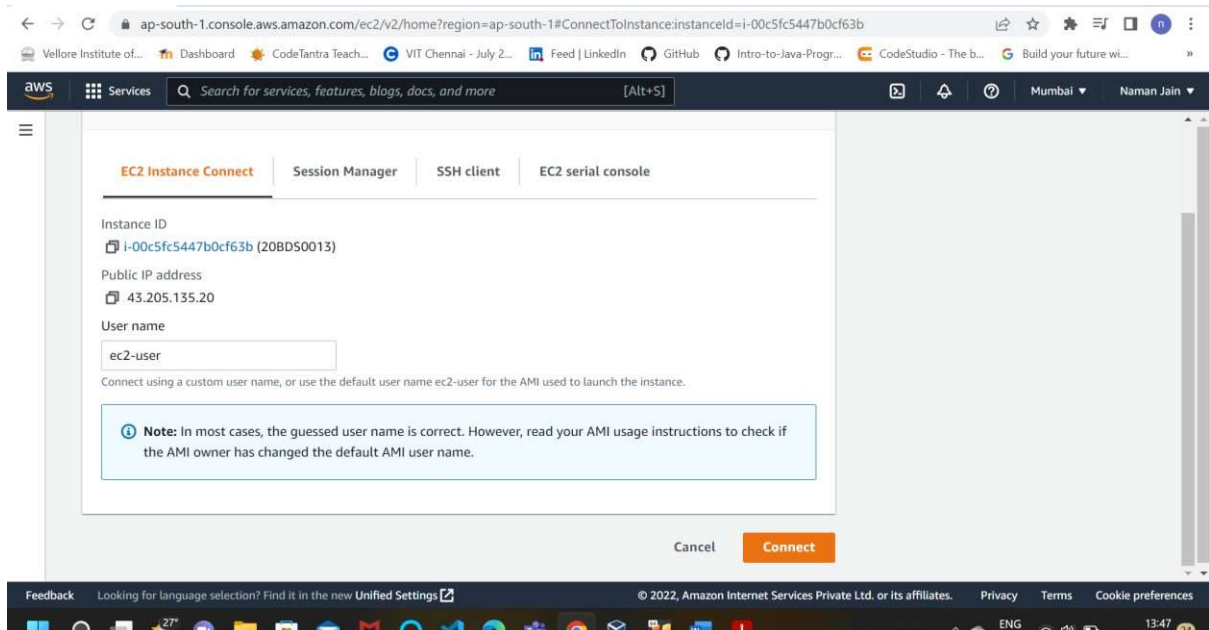
Public IP address: 43.205.135.20

User name: ec2-user

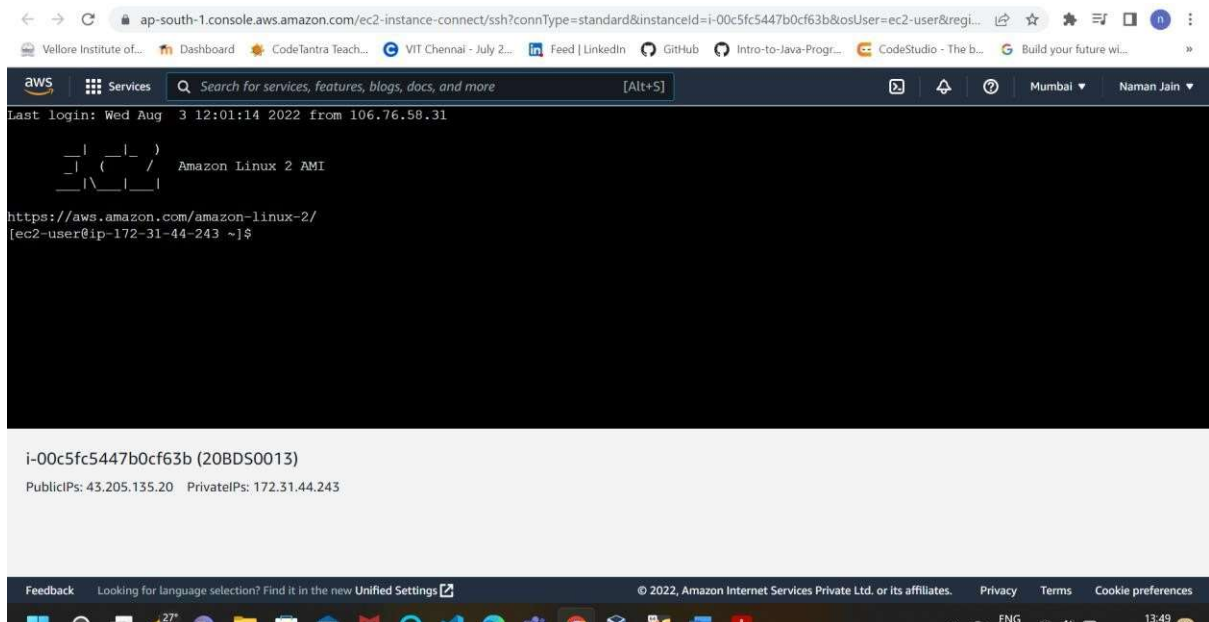
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

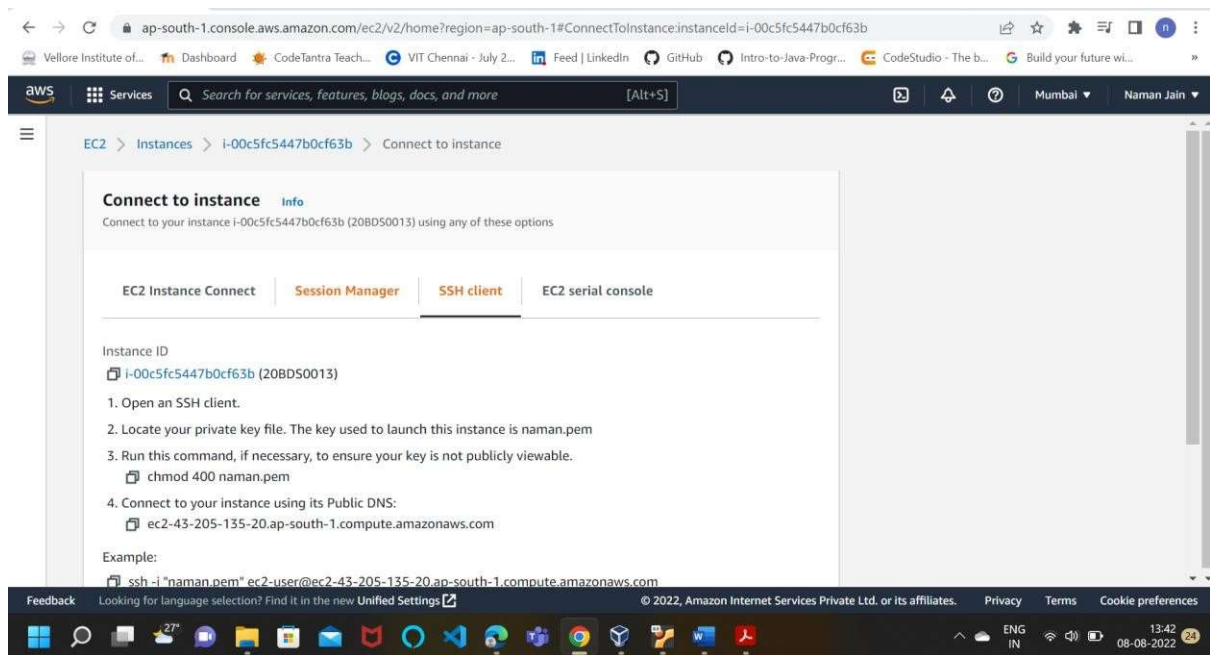
Click connect



After clicking on connect this will open up. Now go back to previous tab to SSH client



## Go to SSH client



Now open Ubuntu OS and then open terminal

Now Locate your private key file which is naman.pem located in Downloads

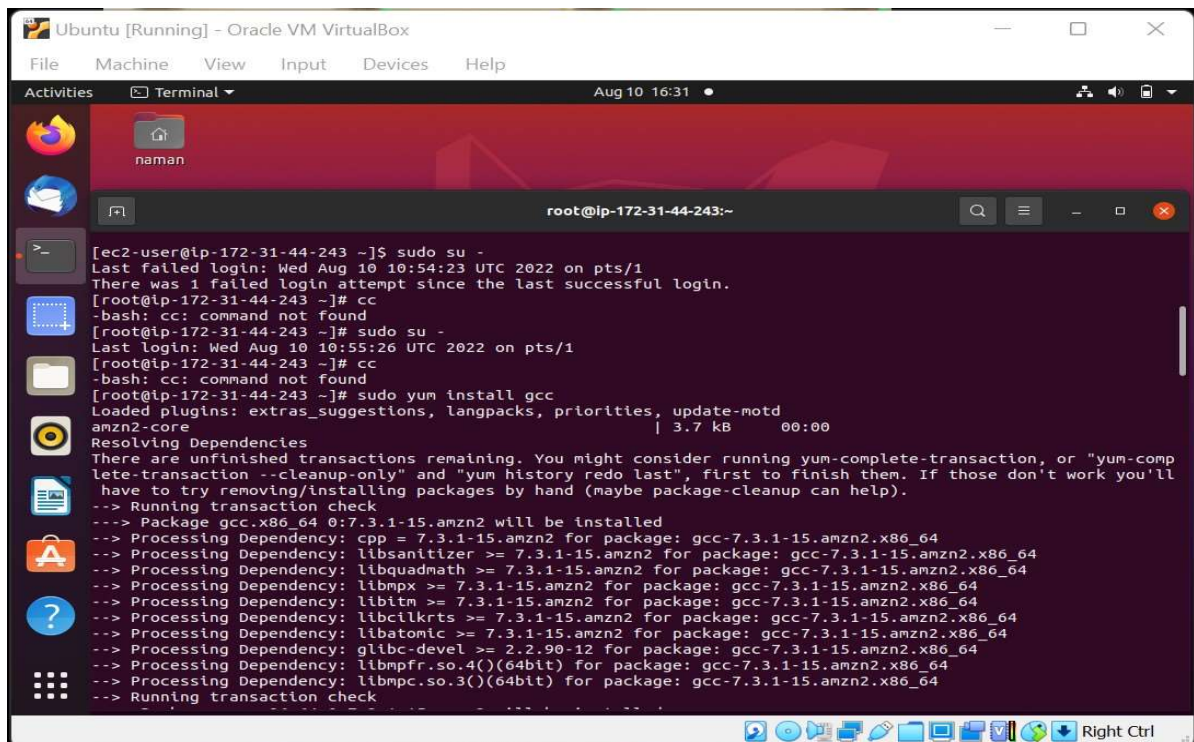
In terminal give command **chmod 400 naman.pem**

Then give command **ssh -i "naman.pem" [ec2-user@ec2-43-205-135-20.ap-south-1.compute.amazonaws.com](https://ec2-43-205-135-20.ap-south-1.compute.amazonaws.com)**

This will connect the SSH client(Ubuntu OS) to the amazon cloud service



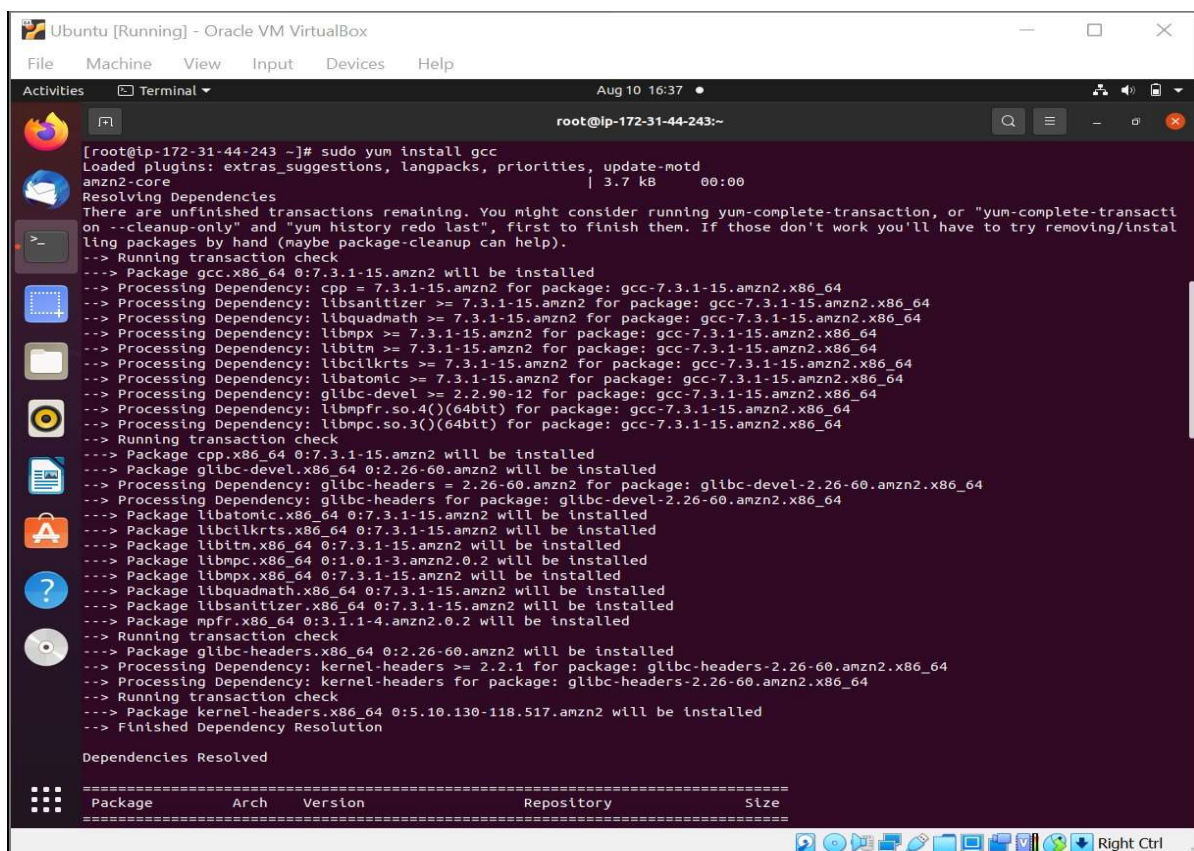
Now to change the mode give command **sudo su -** to switch the user from guest to supervisor



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Aug 10 16:31
root@ip-172-31-44-243:~

[ec2-user@ip-172-31-44-243 ~]$ sudo su -
Last failed login: Wed Aug 10 10:54:23 UTC 2022 on pts/1
There was 1 failed login attempt since the last successful login.
[root@ip-172-31-44-243 ~]# cc
-bash: cc: command not found
[root@ip-172-31-44-243 ~]# sudo su -
Last login: Wed Aug 10 10:55:26 UTC 2022 on pts/1
[root@ip-172-31-44-243 ~]# cc
-bash: cc: command not found
[root@ip-172-31-44-243 ~]# sudo yum install gcc
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-complete-transaction, or "yum-comp
lete-transaction --cleanup-only" and "yum history redo last", first to finish them. If those don't work you'll
have to try removing/installing packages by hand (maybe package-cleanup can help).
--> Running transaction check
--> Package gcc.x86_64 0:7.3.1-15.amzn2 will be installed
--> Processing Dependency: cpp = 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libsanitizer >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libquadmath >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpx >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libitm >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libcilkrts >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libatomic >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: glibc-devel >= 2.2.90-12 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpfr.so.4()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpc.so.3()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Running transaction check
```

Now give command **sudo yum install gcc** to download gcc compiler



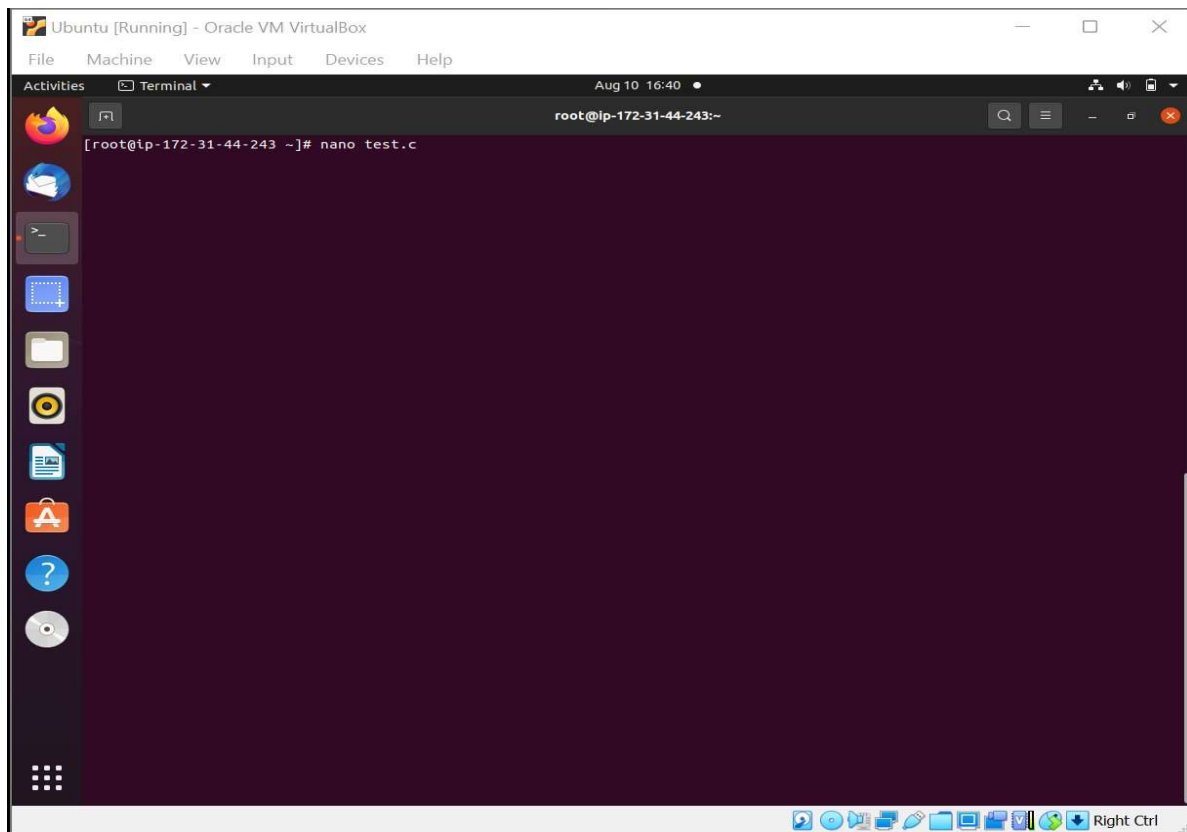
```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Aug 10 16:37
root@ip-172-31-44-243:~

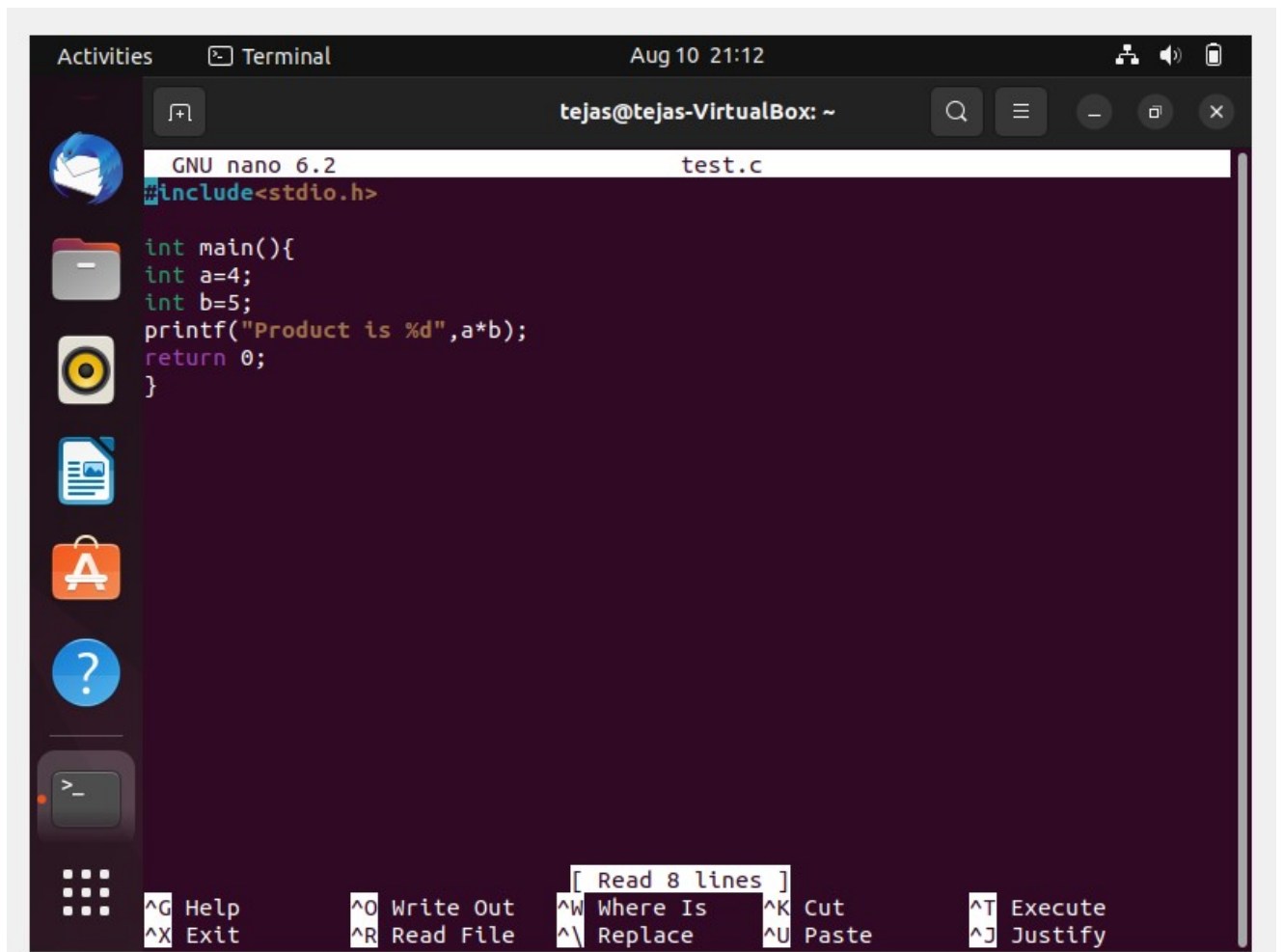
[root@ip-172-31-44-243 ~]# sudo yum install gcc
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-complete-transaction, or "yum-complete-transacti
on --cleanup-only" and "yum history redo last", first to finish them. If those don't work you'll have to try removing/install
ing packages by hand (maybe package-cleanup can help).
--> Running transaction check
--> Package gcc.x86_64 0:7.3.1-15.amzn2 will be installed
--> Processing Dependency: cpp = 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libsanitizer >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libquadmath >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpx >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libitm >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libcilkrts >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libatomic >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: glibc-devel >= 2.2.90-12 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpfr.so.4()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpc.so.3()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Running transaction check
--> Package cpp.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package glibc-devel.x86_64 0:2.26-60.amzn2 will be installed
--> Processing Dependency: glibc-headers = 2.26-60.amzn2 for package: glibc-devel-2.26-60.amzn2.x86_64
--> Processing Dependency: glibc-headers for package: glibc-devel-2.26-60.amzn2.x86_64
--> Package libatomic.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libcilkrts.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libitm.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libmpc.x86_64 0:1.0.1-3.amzn2.0.2 will be installed
--> Package libmpx.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libquadmath.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libsanitizer.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package mpfr.x86_64 0:3.1.1-4.amzn2.0.2 will be installed
--> Running transaction check
--> Package glibc-headers.x86_64 0:2.26-60.amzn2 will be installed
--> Processing Dependency: kernel-headers >= 2.2.1 for package: glibc-headers-2.26-60.amzn2.x86_64
--> Processing Dependency: kernel-headers for package: glibc-headers-2.26-60.amzn2.x86_64
--> Running transaction check
--> Package kernel-headers.x86_64 0:5.10.130-118.517.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
```

Use **nano test.c** to open nano file editor





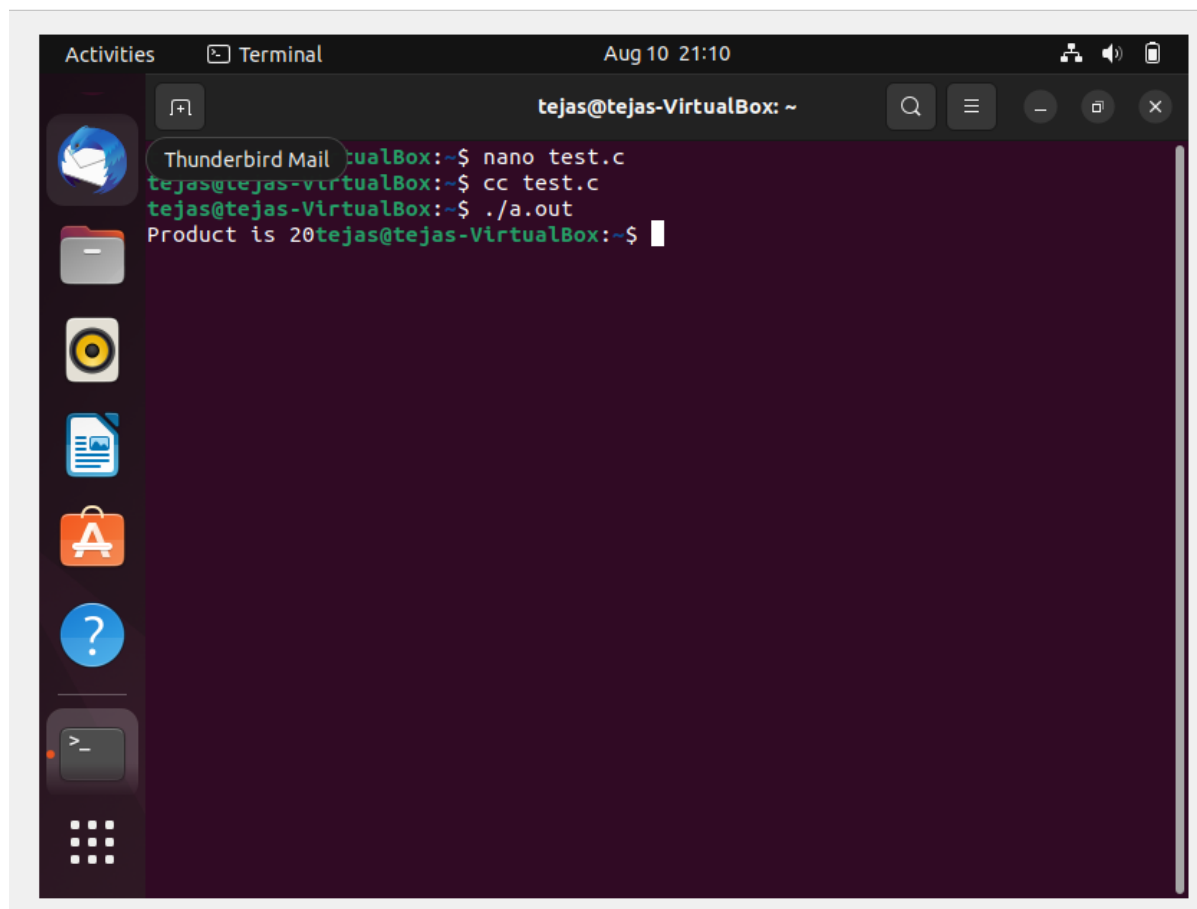
The screenshot shows a terminal window titled "tejas@tejas-VirtualBox: ~" with a timestamp of "Aug 10 21:12". The window contains the GNU nano 6.2 editor editing a file named "test.c". The code in the editor is as follows:

```
#include<stdio.h>

int main(){
int a=4;
int b=5;
printf("Product is %d",a*b);
return 0;
}
```

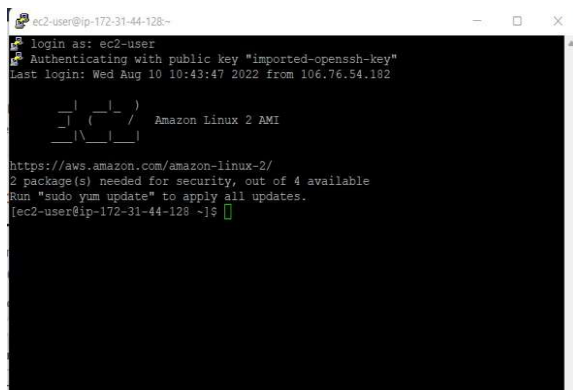
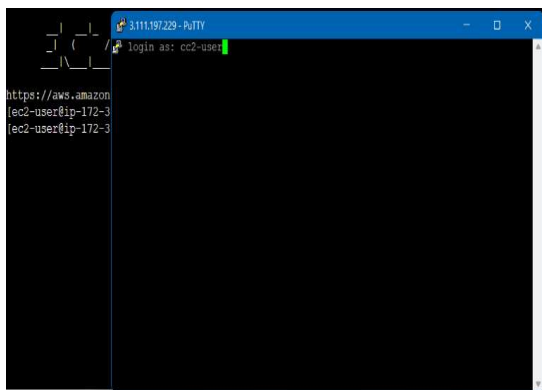
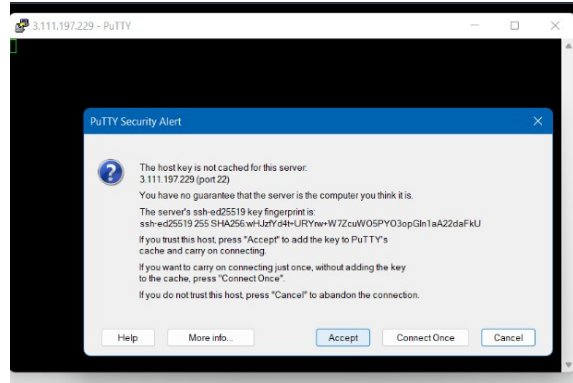
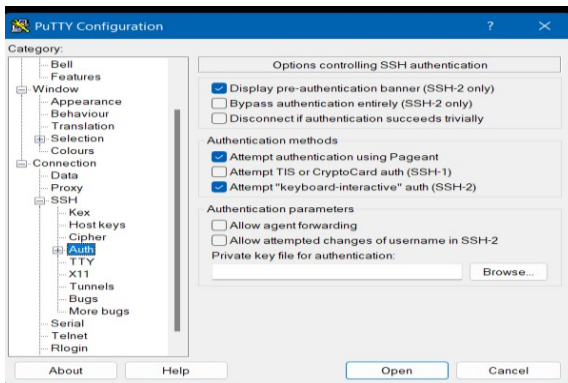
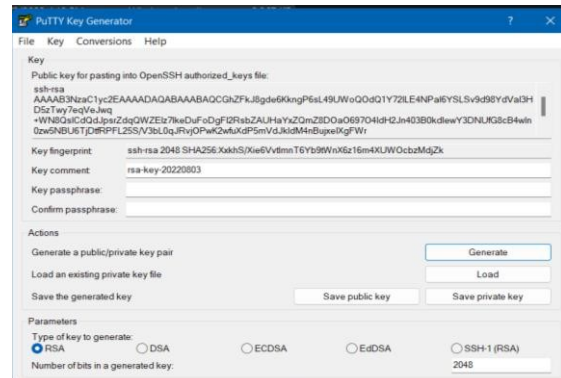
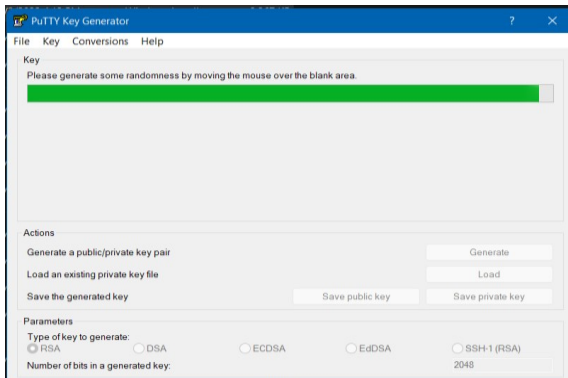
At the bottom of the terminal, there is a status bar with various keyboard shortcuts: `^G Help`, `^X Exit`, `^O Write Out`, `^R Read File`, `^W Where Is`, `^_ Replace`, `^K Cut`, `^U Paste`, `^T Execute`, and `^J Justify`. A message "[ Read 8 lines ]" is also visible in the status bar.

Compile and run the c file



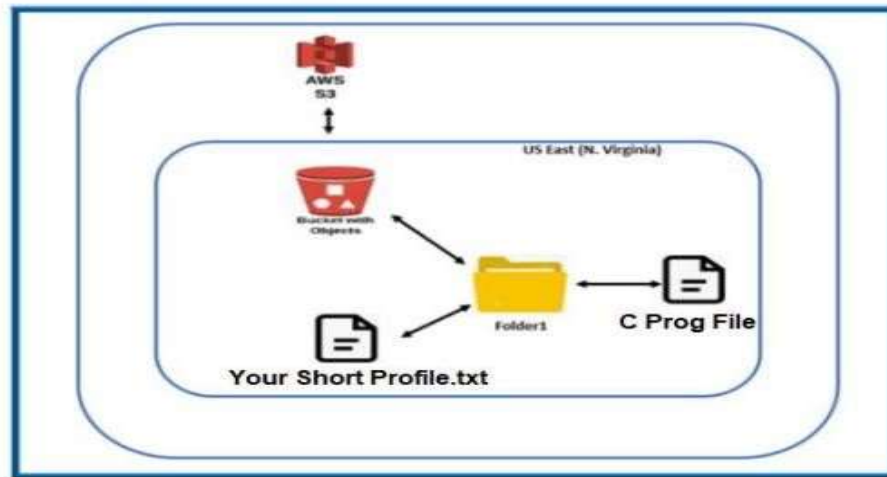
# WINDOWS

Now we will use windows to connect to aws using putty

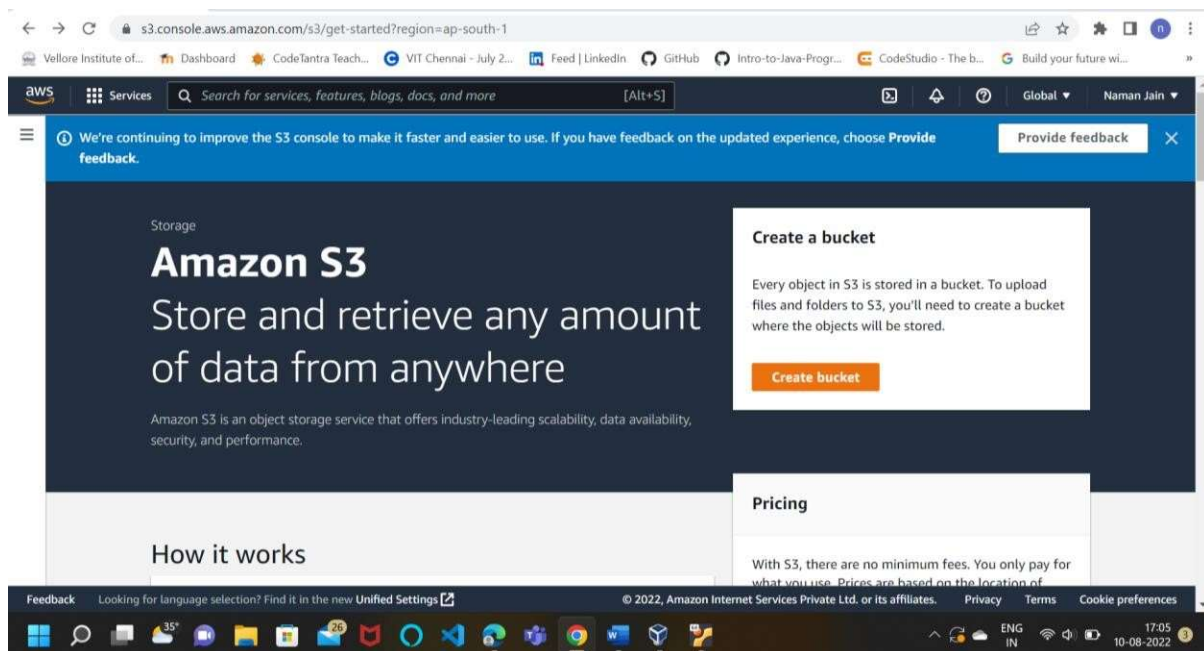




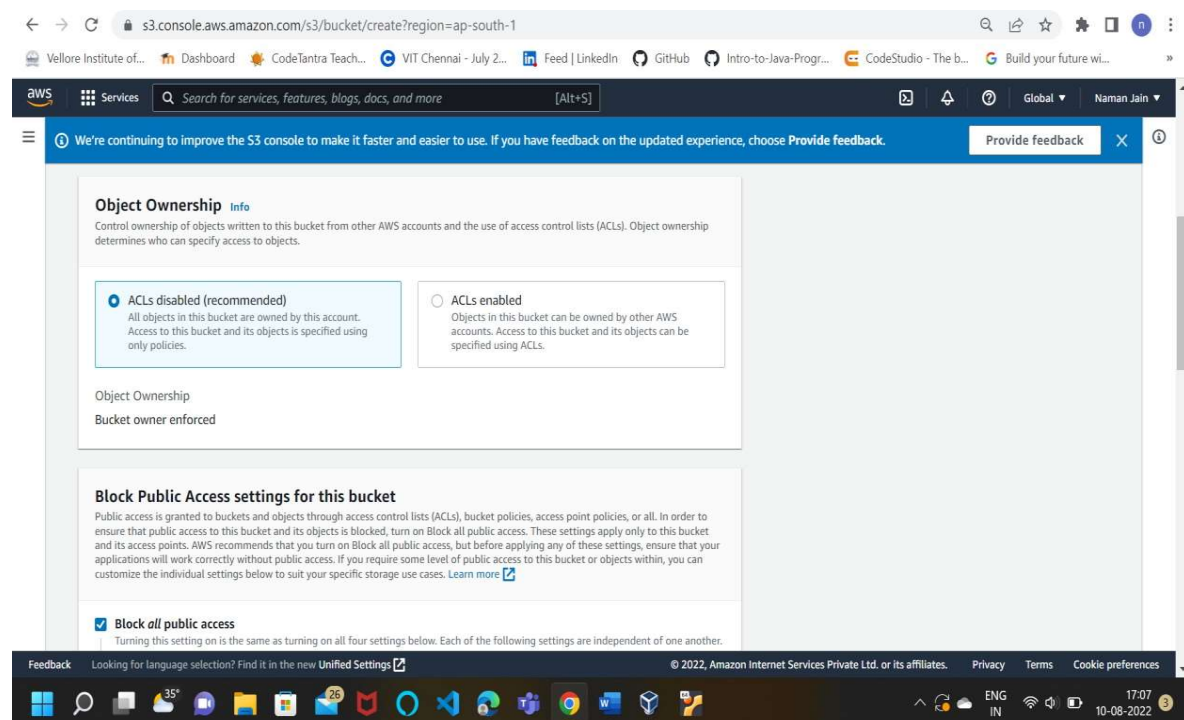
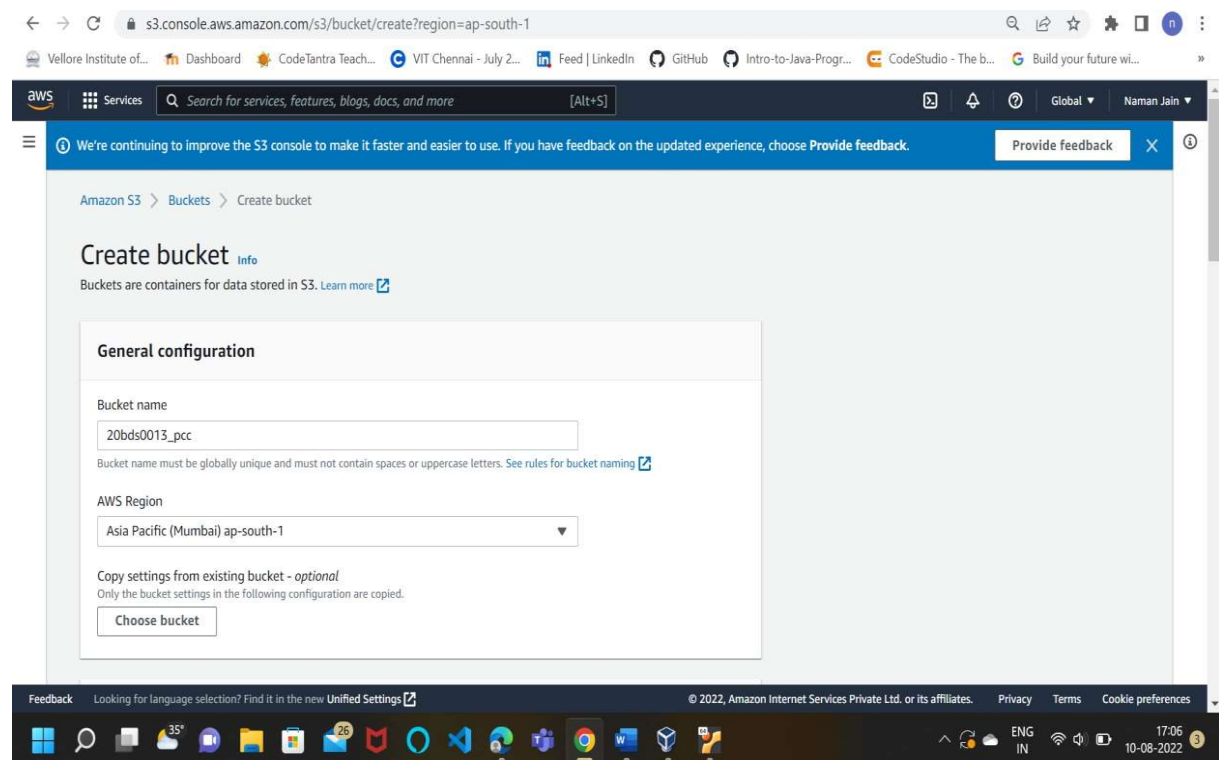
**2. Create a Storage bucket using S3(Simple Storage Service) using AWS and store your c program file and your short profile text file onto the folder created in the S3 bucket.**



Search in the search box for s3 and click the option and then click on create bucket option



Now fill in the bucket name





## Now click on create bucket

The screenshot shows the AWS S3 console 'Create bucket' page for the region 'ap-south-1'. The page includes a search bar, a feedback banner, and a 'Provide feedback' button. The main content area has three sections: 'Tags (0) - optional', 'Default encryption', and 'Advanced settings'. The 'Tags' section has an 'Add tag' button. The 'Default encryption' section has radio buttons for 'Disable' (selected) and 'Enable'. The 'Advanced settings' section is collapsed. At the bottom, there is a 'Cancel' button and a highlighted 'Create bucket' button. The footer shows the AWS logo, a search bar, and the text '© 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences'.

## Create bucket

The screenshot shows the AWS S3 console 'Buckets' page. The left sidebar contains the 'Amazon S3' menu with options like 'Buckets', 'Access Points', 'Object Lambda Access Points', 'Multi-Region Access Points', 'Batch Operations', 'Access analyzer for S3', 'Block Public Access settings for this account', 'Storage Lens', 'Dashboards', 'AWS Organizations settings', 'Feature spotlight', and 'AWS Marketplace for S3'. The main content area has a 'Buckets (1)' section with a search bar and a table of buckets. The table has columns for Name, AWS Region, Access, and Creation date. The first row shows a bucket named '20bds0033pcc' in the 'Asia Pacific (Mumbai) ap-south-1' region, with 'Objects can be public' access and a creation date of 'August 10, 2022, 21:22:07 (UTC+05:30)'. The 'Create bucket' button is highlighted in orange. The footer shows the AWS logo, a search bar, and the text '© 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences'.

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

Global

tejas273

ⓘ We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

✔ Upload succeeded

View details below.

Summary

Destination

s3://20bds0033pcc

Succeeded

✔ 2 files, 59.7 KB (100.00%)

Failed

⊖ 0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (2 Total, 59.7 KB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
Tejas's Resume 2.pdf	-	application/pdf	59.6 KB	✔ Succeeded	-
test.c	-	-	112.0 B	✔ Succeeded	-

Feedback

Looking for language selection? Find it in the new [Unified Settings](#)

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Privacy

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Cookie preferences





The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information (Global, Naman Jain). The left-hand navigation pane shows the 'Amazon S3' service selected, with a sub-menu for 'Buckets'. The main content area shows the details for the bucket '20bds0013pcc' and the object 'Resume.pdf'. The 'Object overview' tab is active, displaying the following information:

- Owner:** 4ec1152c2bfe4aff92b0c834a62355ee8c8edbf32225a196a97277074748cce
- AWS Region:** Asia Pacific (Mumbai) ap-south-1
- Last modified:** August 10, 2022, 17:19:57 (UTC+05:30)
- Size:** 141.5 KB
- Type:** pdf
- Key:** Resume.pdf
- S3 URI:** s3://20bds0013pcc/Resume.pdf
- Amazon Resource Name (ARN):** arn:aws:s3::20bds0013pcc/Resume.pdf
- Entity tag (ETag):** d6ec4debd521cbf21ed7205cbe16564
- Object URL:** https://20bds0013pcc.s3.ap-south-1.amazonaws.com/Resume.pdf

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 17:21 on 10-08-2022.

The image is a screenshot of a web browser displaying a resume for Tejas Rokade. The browser's address bar shows a URL from amazonaws.com. The resume is titled "Tejas's Resume 2.pdf" and features a profile picture of Tejas Rokade, a Software Developer. The resume includes sections for Education (High School, Junior College, Computer Science Engineering), Skills (React, NodeJS, PHP, MySQL, JavaScript, HTML & CSS, Git & GitHub, C, Cpp, Java, Python), Personal Projects (Real Time Chat Application, Music Recommender System, MI-Store-Clone Frontend), Languages (English, Hindi, Marathi), Work Experience (ACM-VIT Student's Chapter), and Interests. The browser interface includes navigation buttons, a search bar, and a sidebar with a file explorer showing "Tejas's Resume 2.pdf".

<https://20bds0033pcc.s3.ap-south-1.amazonaws.com/Tejas%27s%20Resume%202.pdf?response-content-disposition=inline&X-Amz-Security->

[illegible]