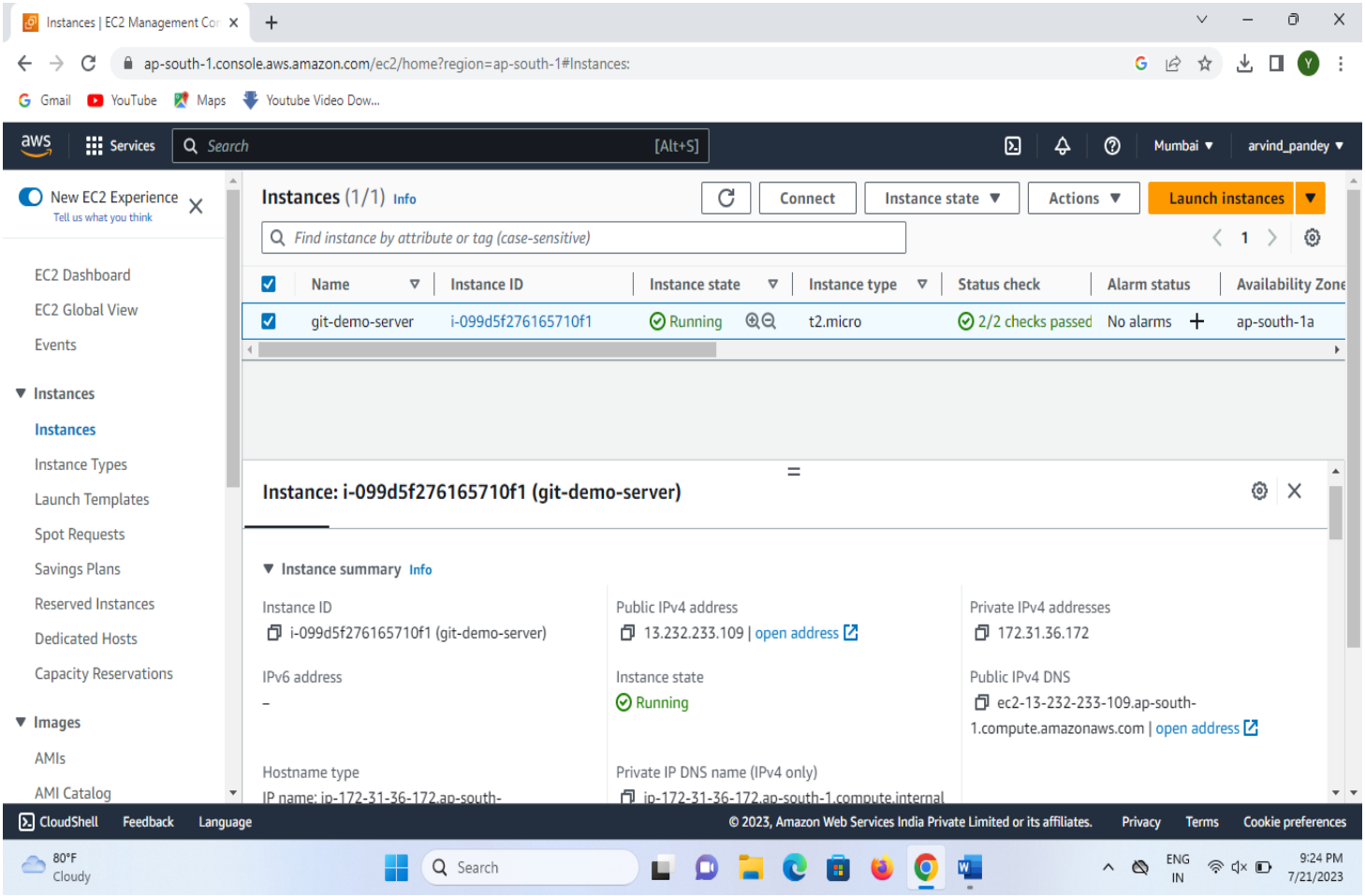
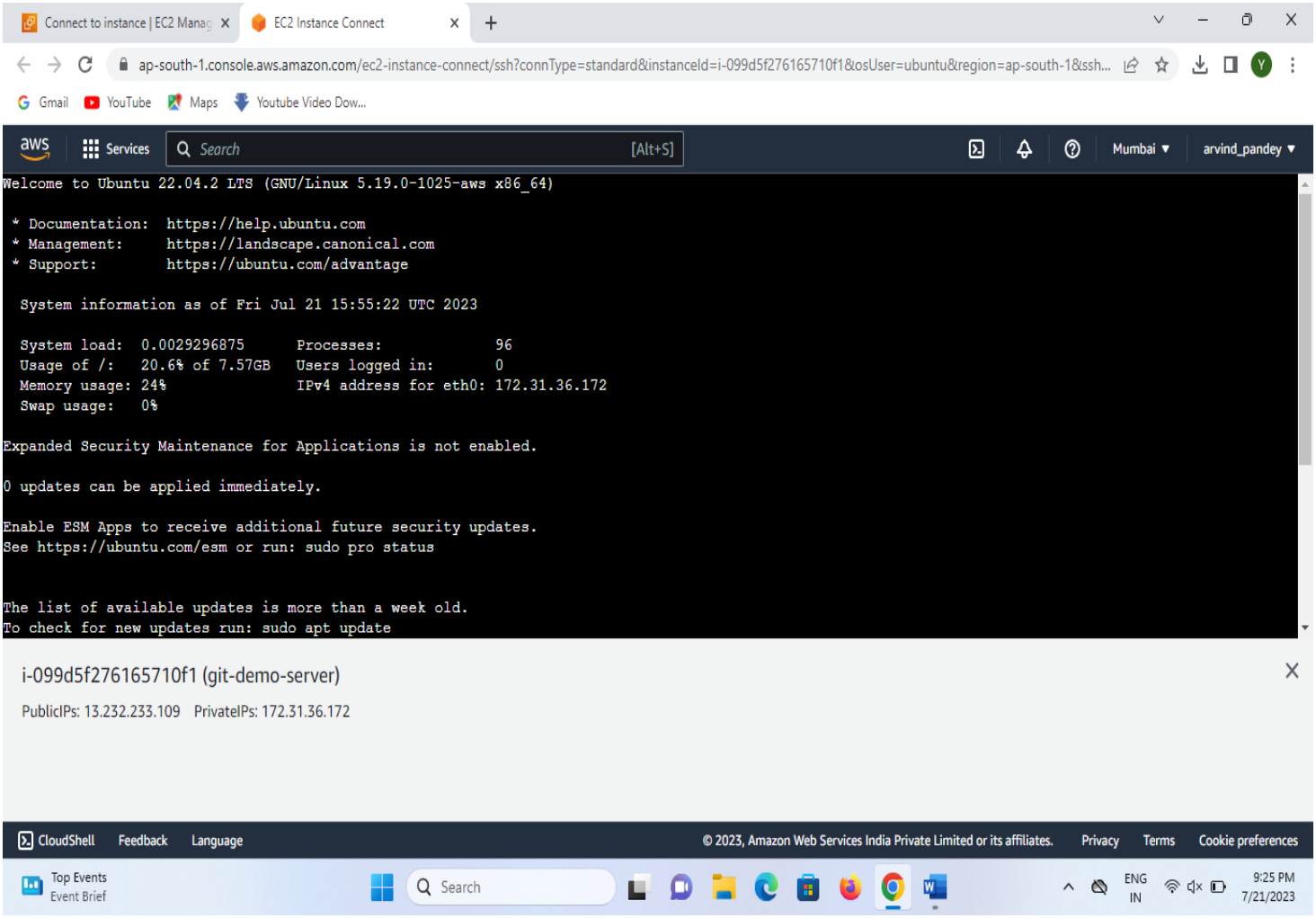
Step 1 ;- Launch a Ubuntu machine with EC2 Instance

- Using Ubuntu AMI with t2.micro instance type
- Create key pair to securely connect to your instance
- Create A security group set firewall rules that control the traffic for your instance



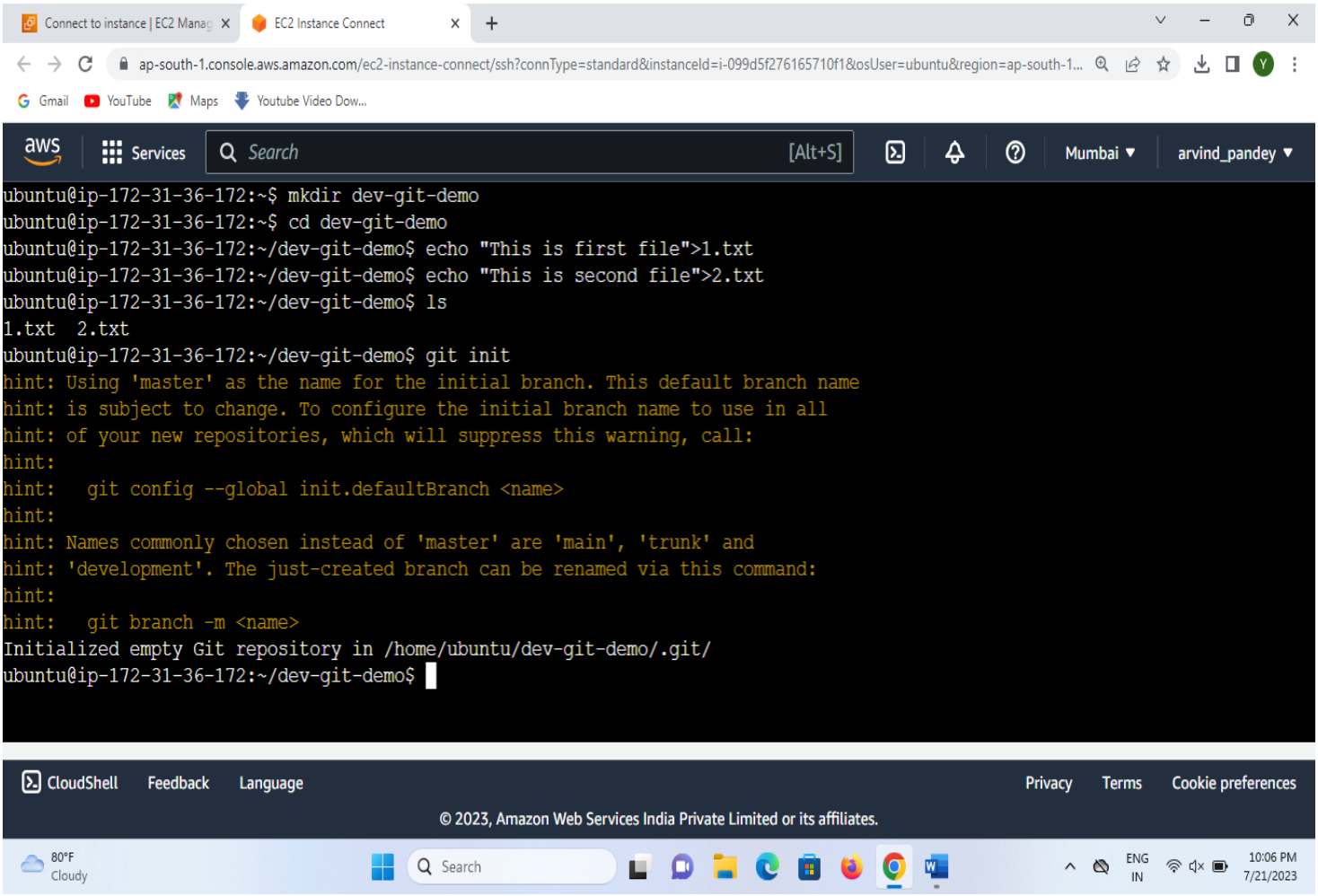
Step 2;- Select the EC2 instance and click on Connect button

- Ubuntu terminals are ready to use



Step 4;- Perform common git commands

- Create Program workspace(project directory) and add file in this.
- Echo is the command which is use to display the argument we passed.
- git init use to convert project directory into working directory.
- git init created a local repository.
- Add our files into staging area (i.e 1.txt & 2.txt)
- git add (1.txt 2.txt)to add file in local repository


Connect to instance | EC2 Manag
EC2 Instance Connect
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
ubuntu@ip-172-31-36-172:~$ mkdir dev-git-demo
ubuntu@ip-172-31-36-172:~$ cd dev-git-demo
ubuntu@ip-172-31-36-172:~/dev-git-demo$ echo "This is first file">1.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ echo "This is second file">2.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ ls
1.txt 2.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint: git branch -m <name>
Initialized empty Git repository in /home/ubuntu/dev-git-demo/.git/
ubuntu@ip-172-31-36-172:~/dev-git-demo$
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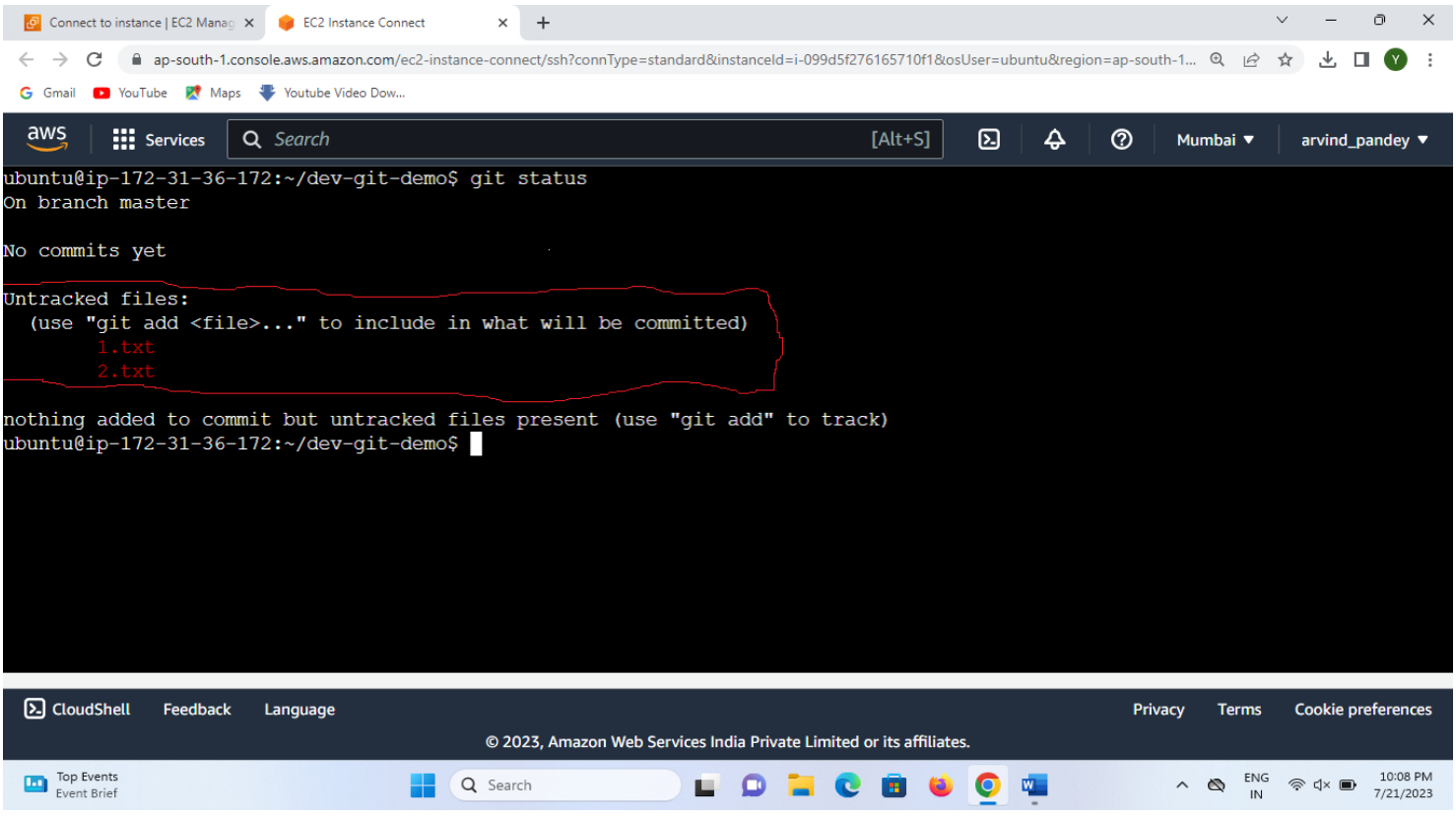
Connect to instance | EC2 Manag
EC2 Instance Connect
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        1.txt
        2.txt
nothing added to commit but untracked files present (use "git add" to track)
ubuntu@ip-172-31-36-172:~/dev-git-demo$
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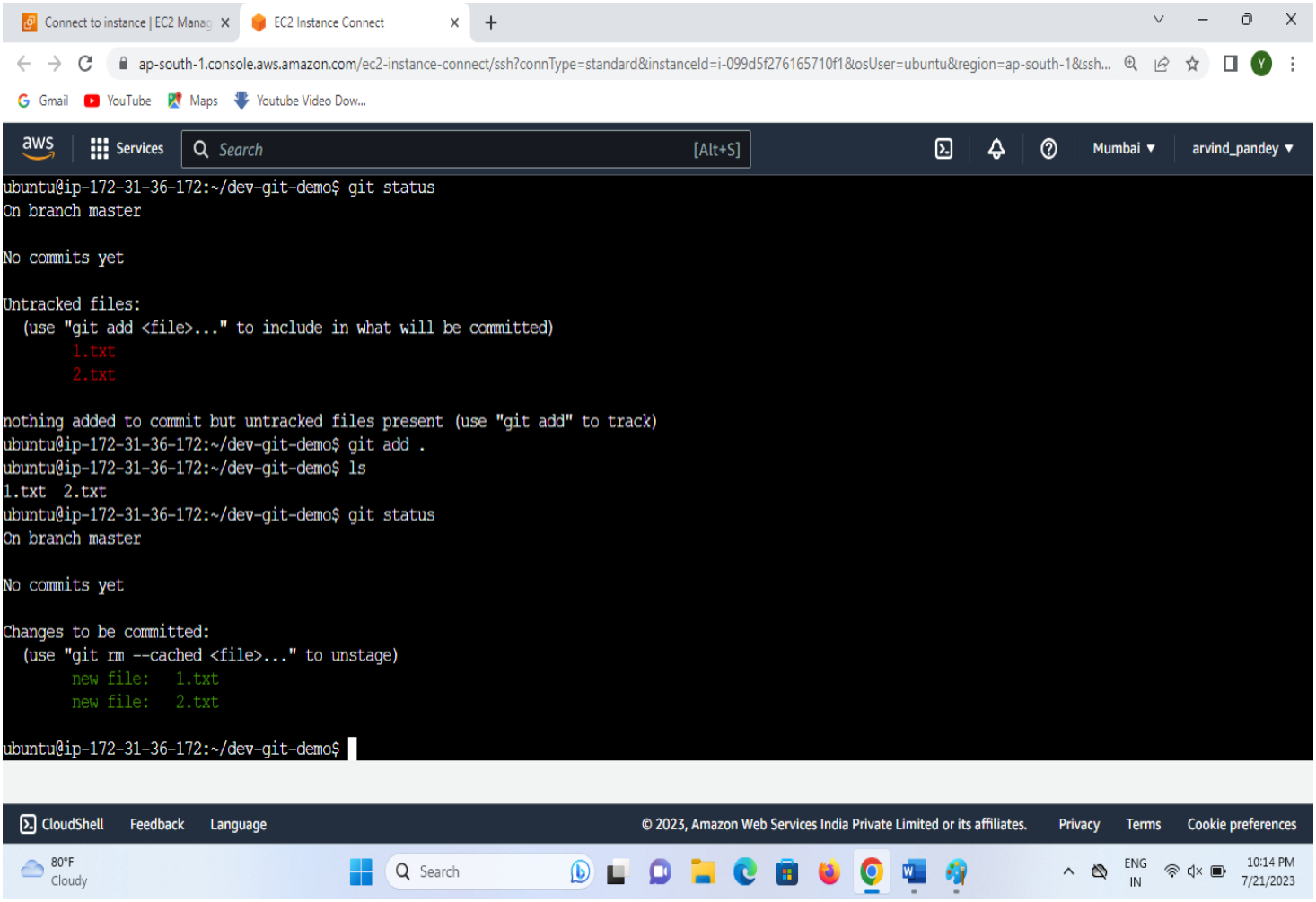
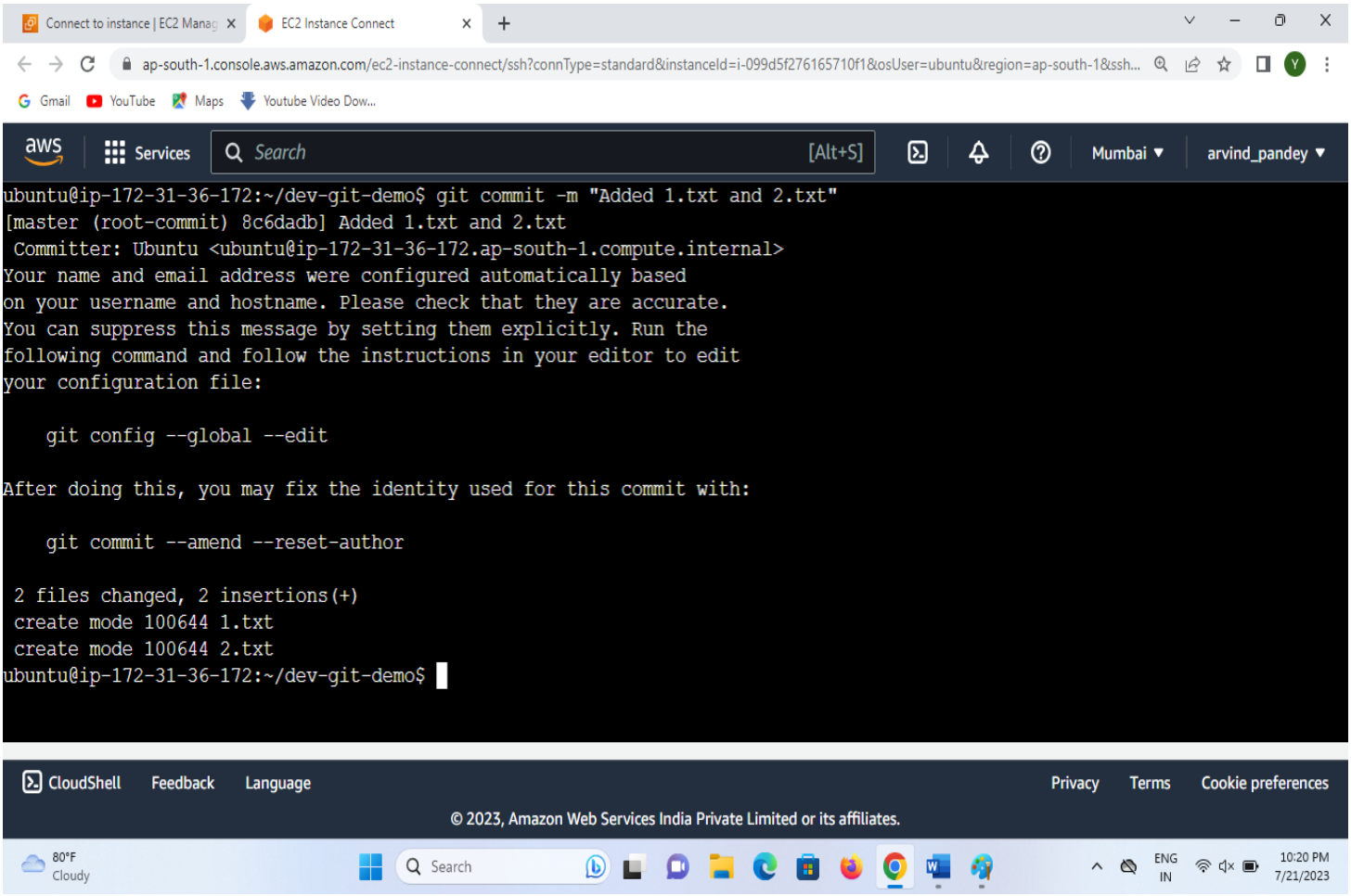


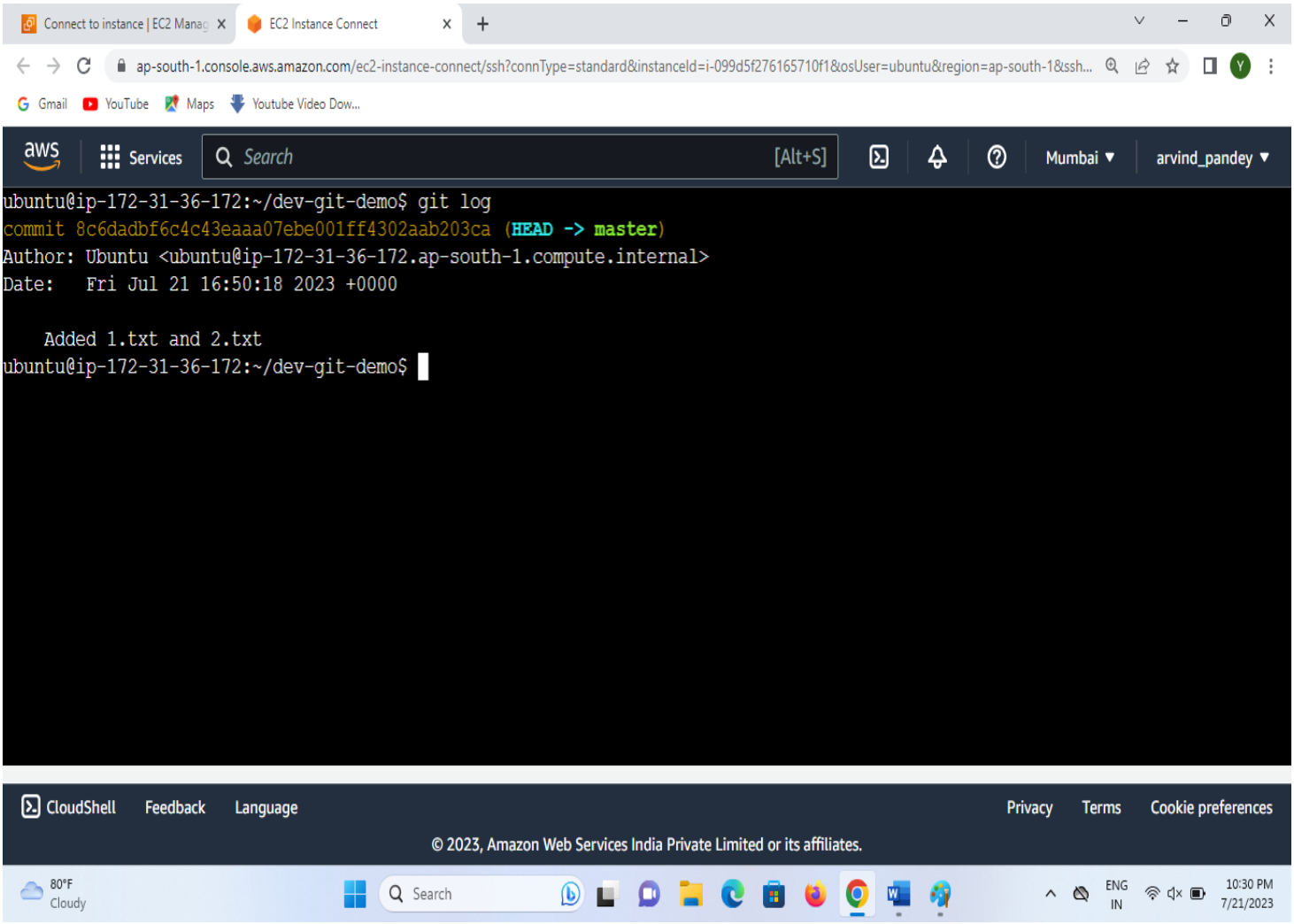
Step 5;- Move Staging Area to Commit

- ➢ git commit save the file in local repository
- It's a temporary storage area (unstage)



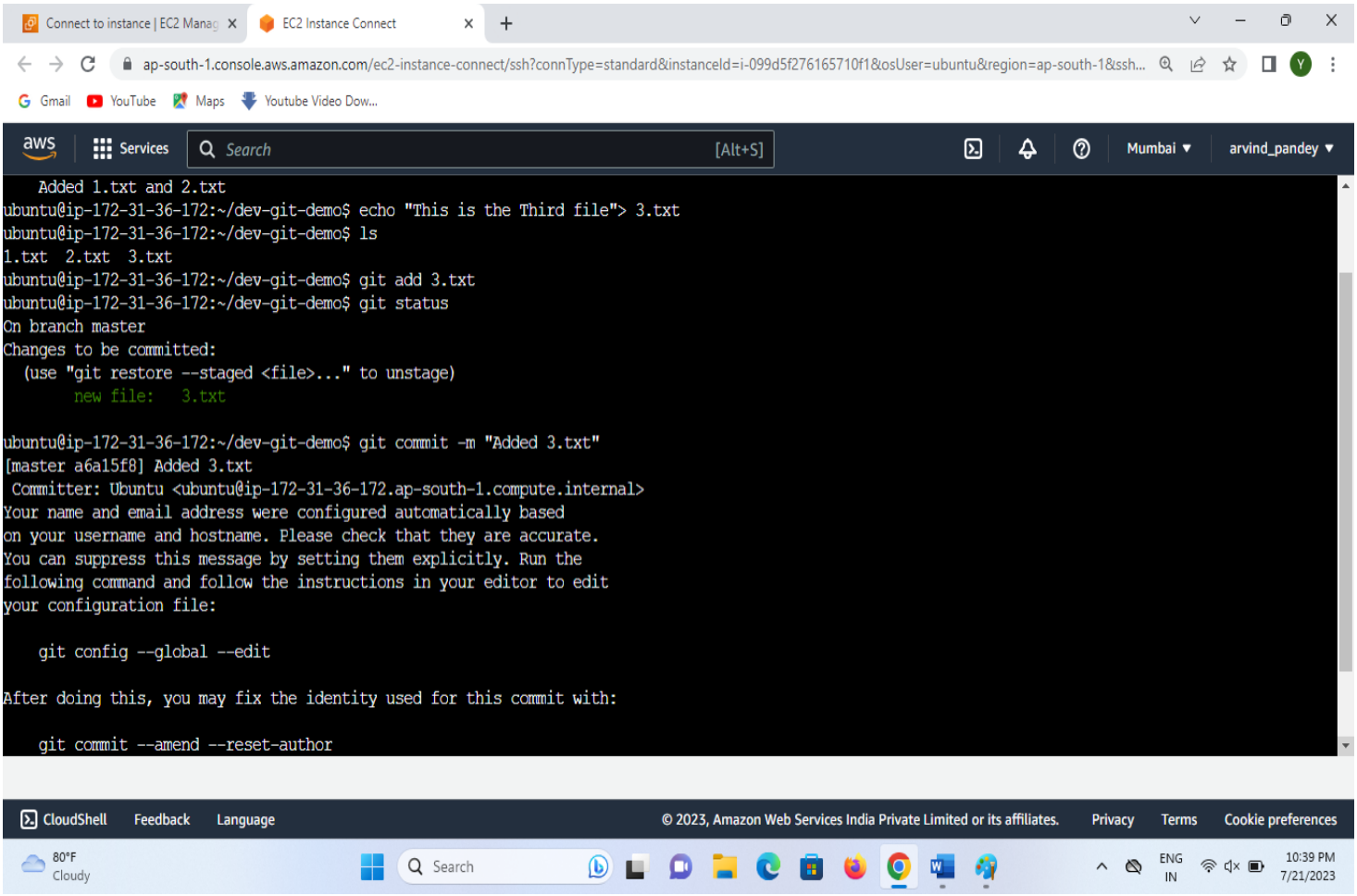
Step 6;- git log

- git log will give entire content of commit
- msg of an Author (who did this commit) and commit ID
- date and time along with commit msg or what user has done
- master is the Branch that we are using (default branch is Master)
- pointer to the latest commit is called as Head (it will refer to the latest commit)



Step 7;-

- Add a Third file


Connect to instance | EC2 Manag
EC2 Instance Connect
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1&ssh...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
Added 1.txt and 2.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ echo "This is the Third file"> 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ ls
1.txt 2.txt 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git add 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
new file: 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git commit -m "Added 3.txt"
[master a6a15f8] Added 3.txt
Committer: Ubuntu <ubuntu@ip-172-31-36-172.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
git config --global --edit
After doing this, you may fix the identity used for this commit with:
git commit --amend --reset-author
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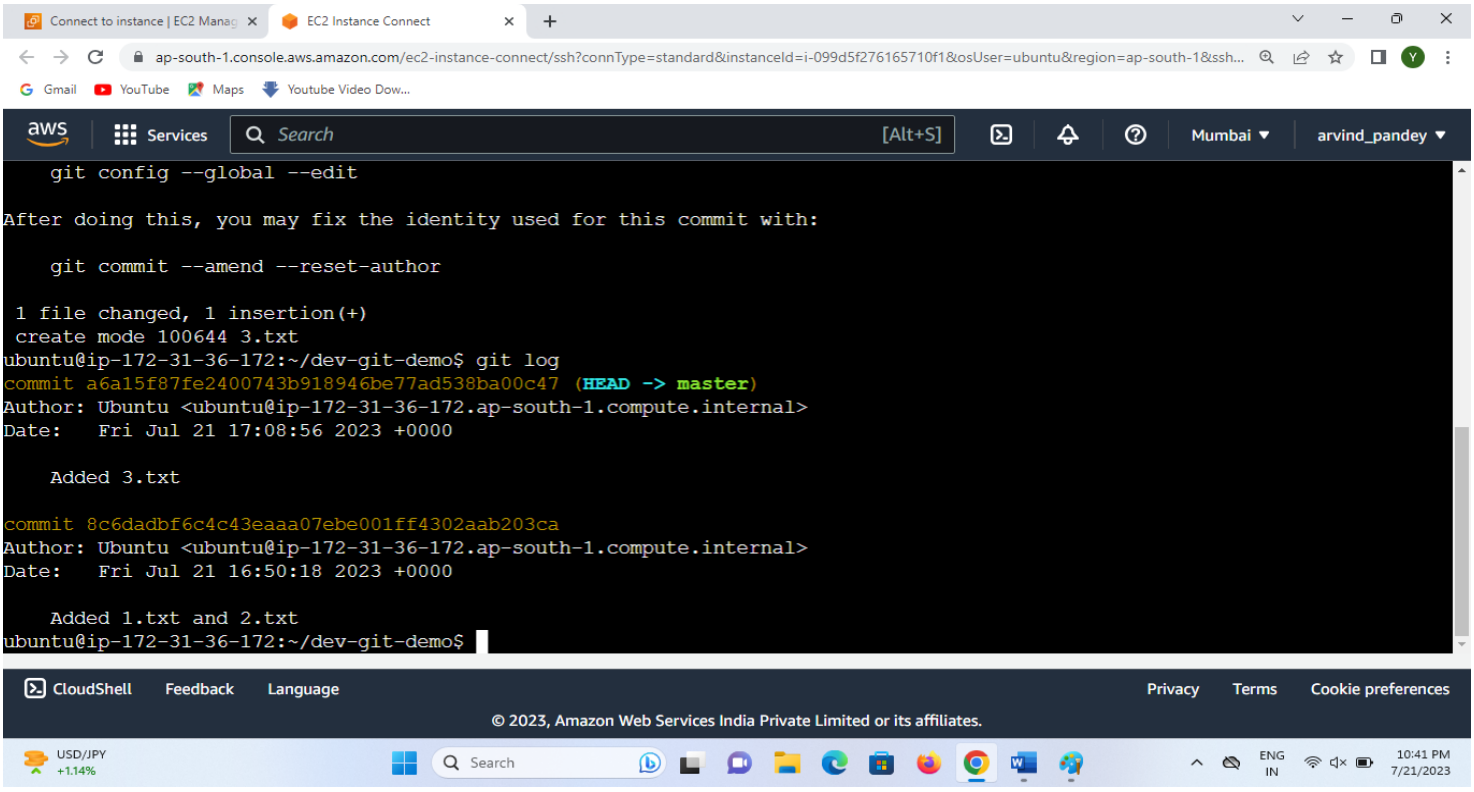
Connect to instance | EC2 Manag
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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1&ssh...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
git config --global --edit
After doing this, you may fix the identity used for this commit with:
git commit --amend --reset-author
1 file changed, 1 insertion(+)
create mode 100644 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git log
commit a6a15f87fe2400743b918946be77ad538ba00c47 (HEAD -> master)
Author: Ubuntu <ubuntu@ip-172-31-36-172.ap-south-1.compute.internal>
Date: Fri Jul 21 17:08:56 2023 +0000
Added 3.txt
commit 8c6dadbf6c4c43eaaa07ebe001ff4302aab203ca
Author: Ubuntu <ubuntu@ip-172-31-36-172.ap-south-1.compute.internal>
Date: Fri Jul 21 16:50:18 2023 +0000
Added 1.txt and 2.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$
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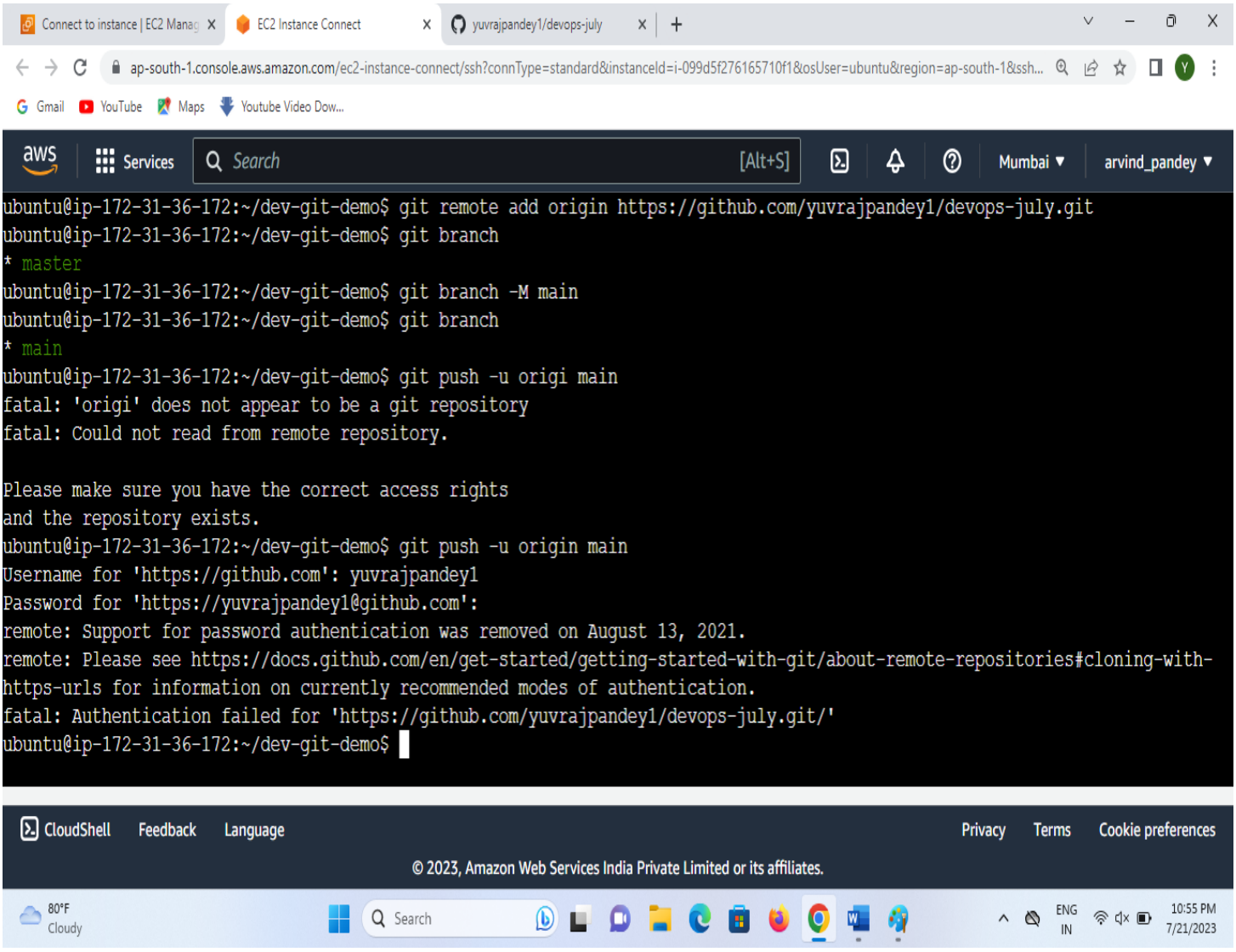
Step 8 ;- Push all changes into GitHub account

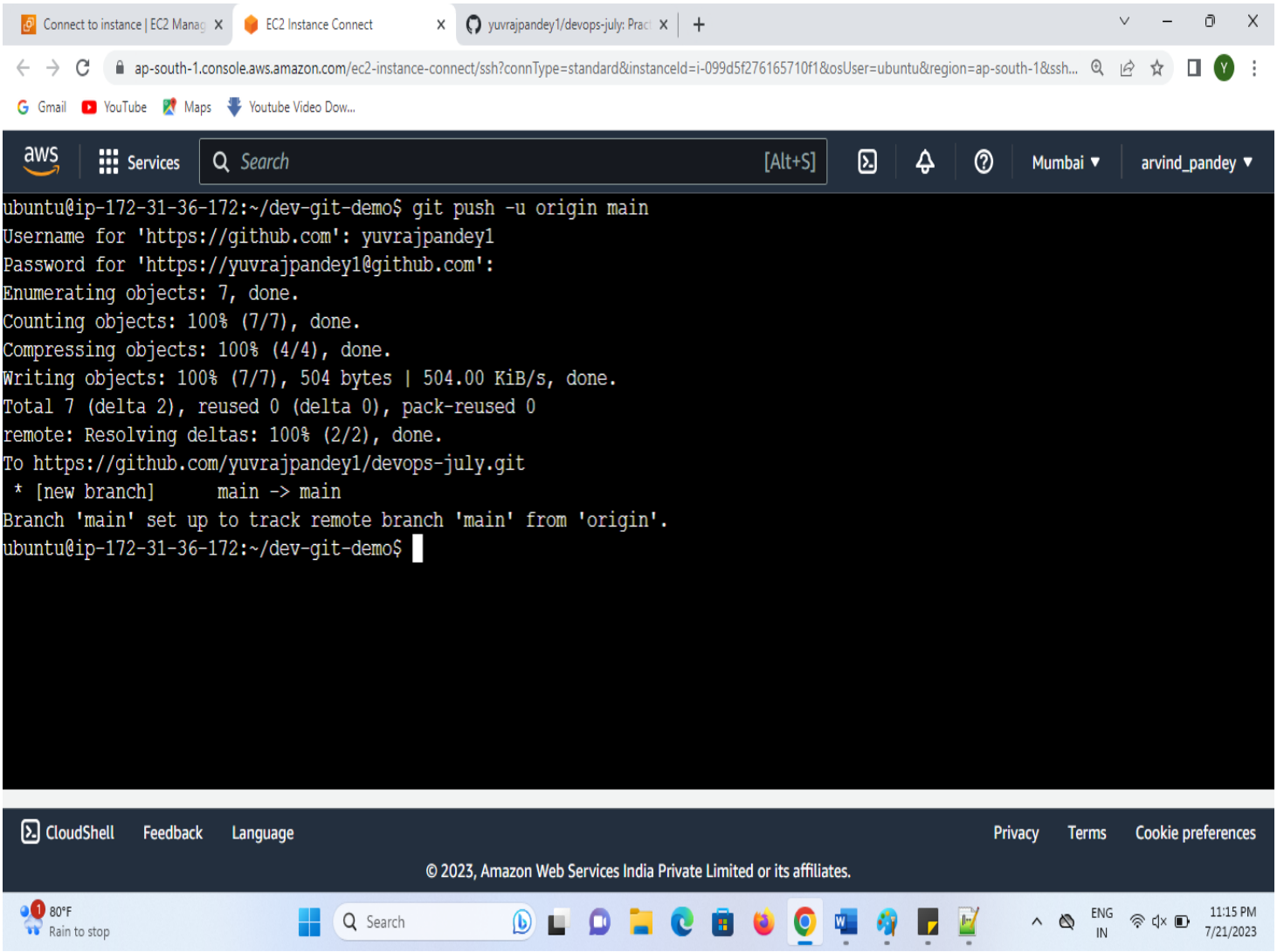
- Create a repository in GitHub
- Copy remote repository command
- Change branch name master to main



Step 9;- Generate PAT (Personal Access Token) to overcome this error

- Steps to create Personal Access Token

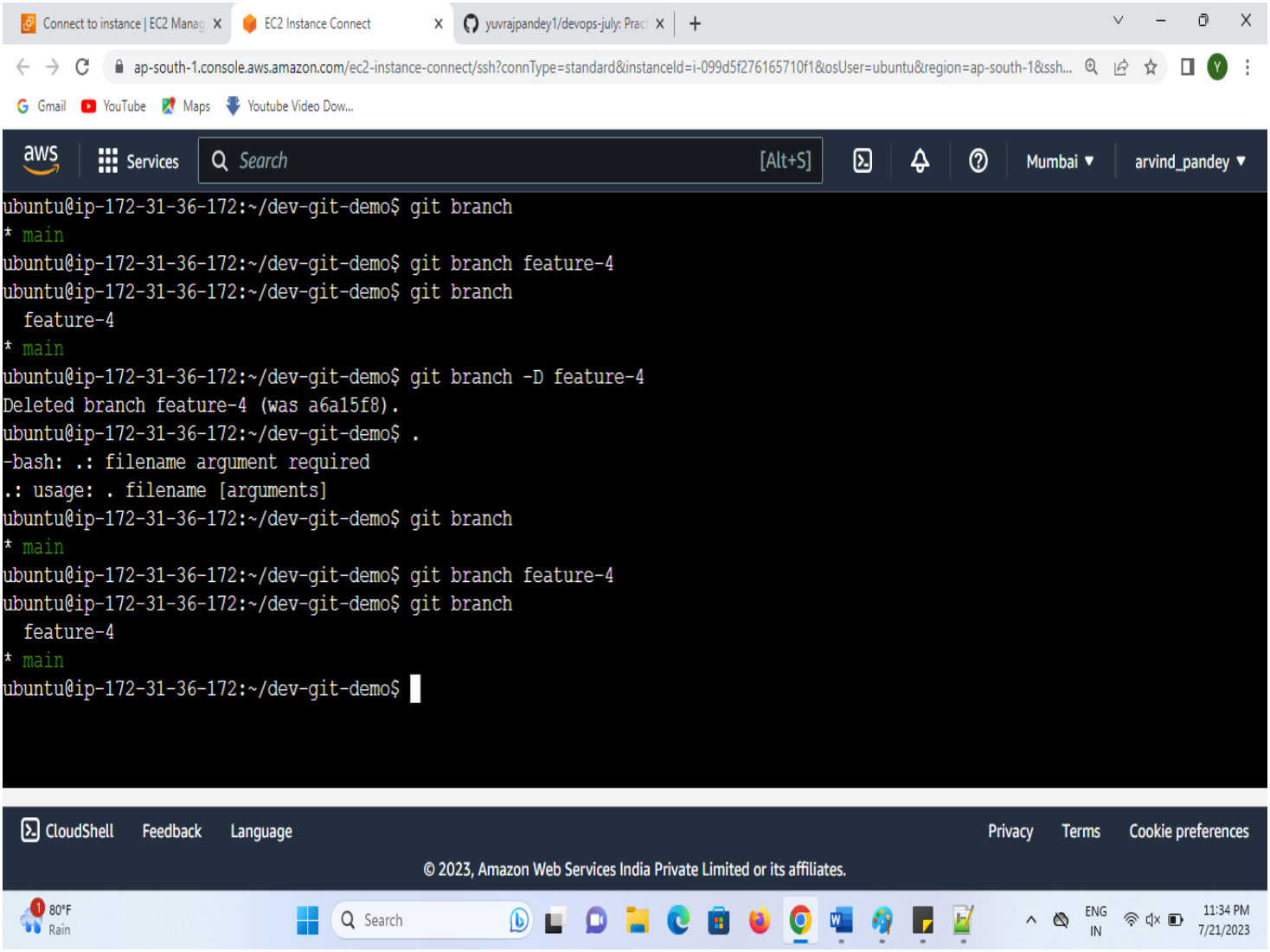
1. Go to the GitHub profile to settings
2. From settings go to Developer settings
3. https://github.com/settings/apps
4. Personal access tokens->Tokens(classic)
5. Generate new token

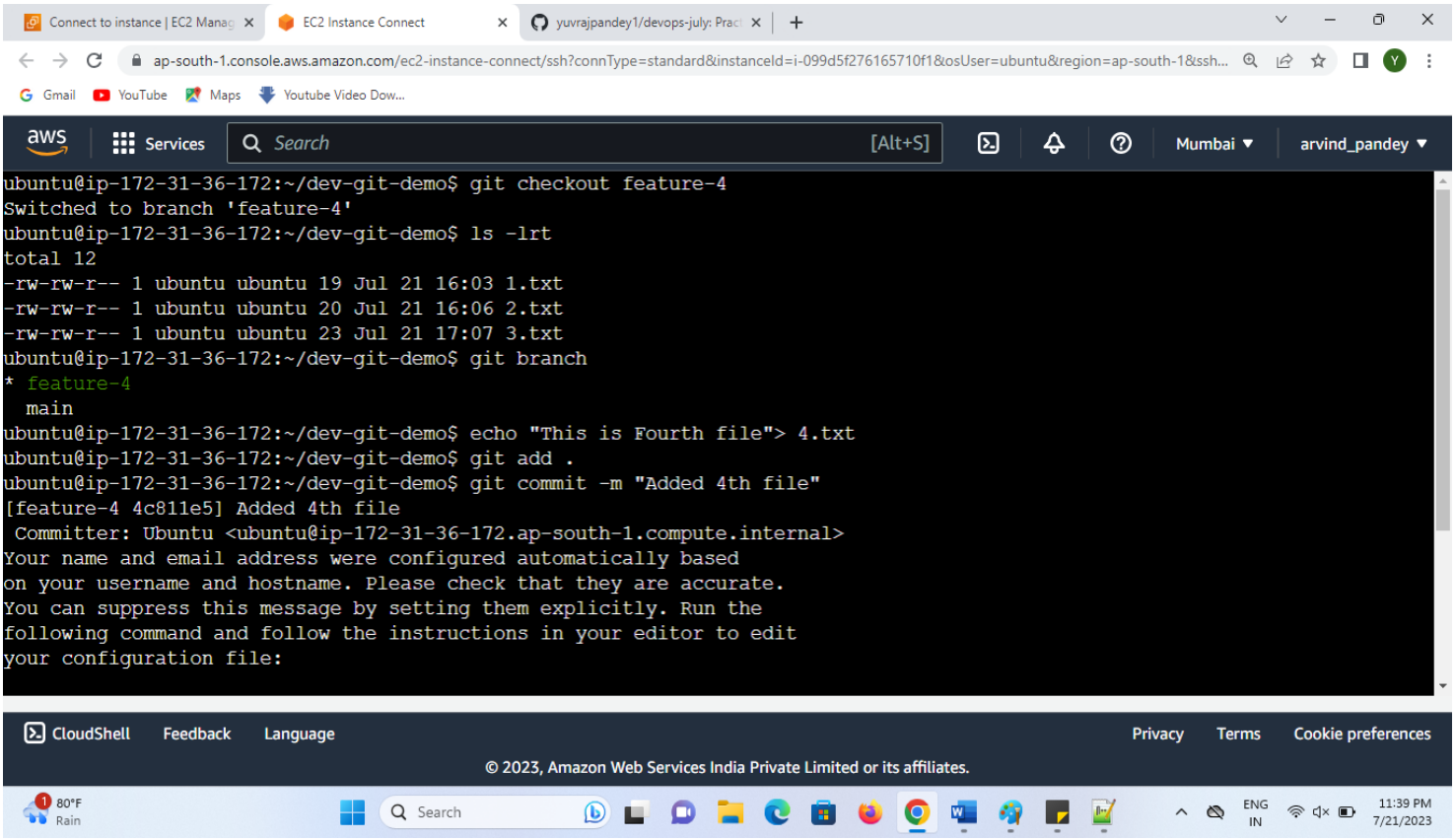


Step 10;- What are the need of the Branch

- If you want to add new file we should not directly push to Master Branch
- Create a new Branch under Master Branch and then push new file
- Master/Main branch will contain only the finalized code
- Only Main code will be their in Master/Main Branch
- If any error or defect is their in Branch it will Not effect the Master/Main Branch
- After doing changes at last we can merge in Master/Main Branch

➢ Created new branch feature-4 (git branch feature-4)




Connect to instance | EC2 Manag
EC2 Instance Connect
yuvrajpandey1/devops-july: Prac
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1&ssh...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git checkout feature-4
Switched to branch 'feature-4'
ubuntu@ip-172-31-36-172:~/dev-git-demo$ ls -lrt
total 12
-rw-rw-r-- 1 ubuntu ubuntu 19 Jul 21 16:03 1.txt
-rw-rw-r-- 1 ubuntu ubuntu 20 Jul 21 16:06 2.txt
-rw-rw-r-- 1 ubuntu ubuntu 23 Jul 21 17:07 3.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git branch
* feature-4
main
ubuntu@ip-172-31-36-172:~/dev-git-demo$ echo "This is Fourth file"> 4.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git add .
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git commit -m "Added 4th file"
[feature-4 4c811e5] Added 4th file
Committer: Ubuntu <ubuntu@ip-172-31-36-172.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
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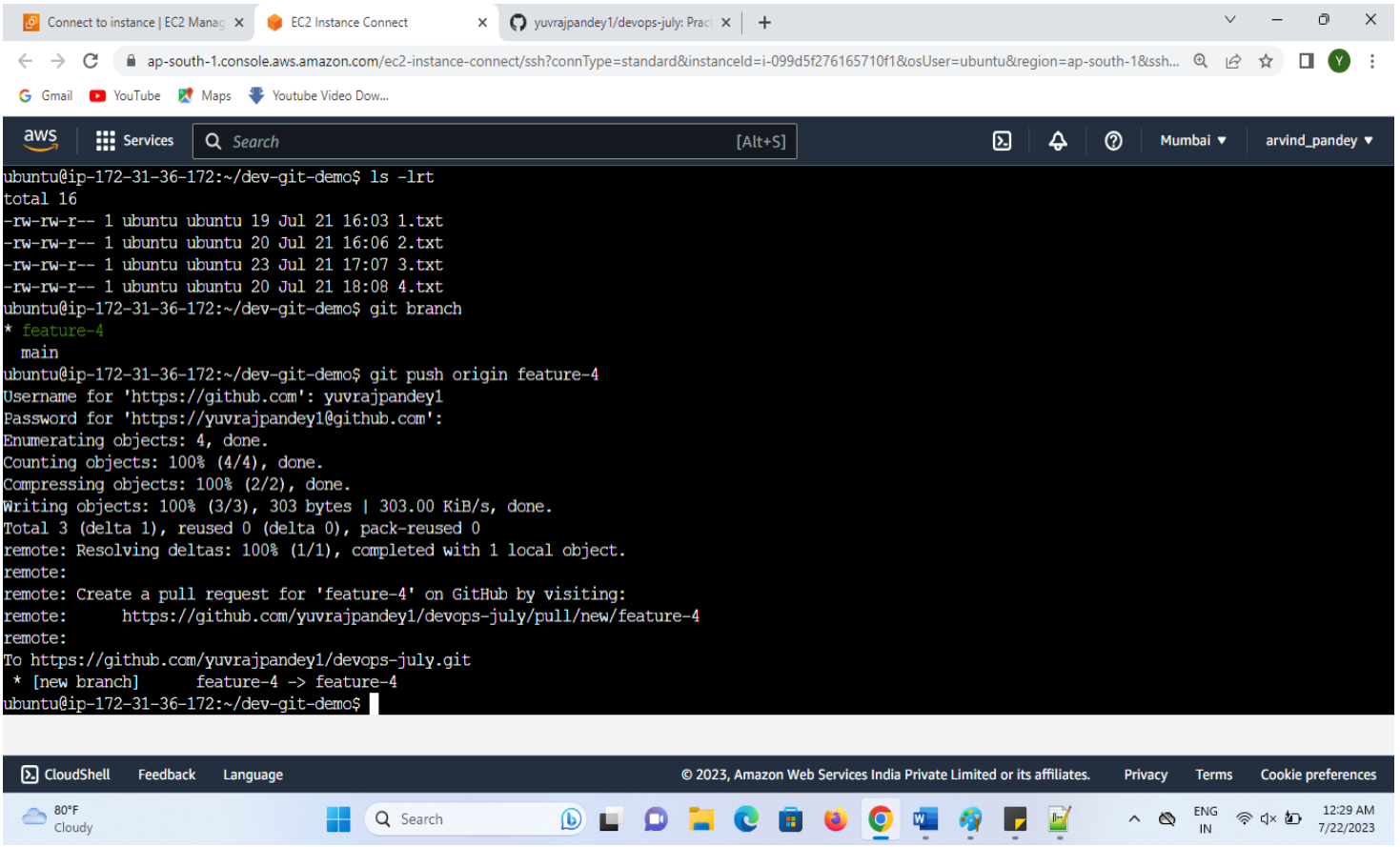
Connect to instance | EC2 Manag
EC2 Instance Connect
yuvrajpandey1/devops-july: Prac
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-099d5f276165710f1&osUser=ubuntu&region=ap-south-1&ssh...
Gmail
YouTube
Maps
Youtube Video Dow...
aws
Services
Search
[Alt+S]
Mumbai
arvind_pandey
ubuntu@ip-172-31-36-172:~/dev-git-demo$ ls -lrt
total 16
-rw-rw-r-- 1 ubuntu ubuntu 19 Jul 21 16:03 1.txt
-rw-rw-r-- 1 ubuntu ubuntu 20 Jul 21 16:06 2.txt
-rw-rw-r-- 1 ubuntu ubuntu 23 Jul 21 17:07 3.txt
-rw-rw-r-- 1 ubuntu ubuntu 20 Jul 21 18:08 4.txt
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git branch
* feature-4
main
ubuntu@ip-172-31-36-172:~/dev-git-demo$ git push origin feature-4
Username for 'https://github.com': yuvrajpandey1
Password for 'https://yuvrajpandey1@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 303 bytes | 303.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-4' on GitHub by visiting:
remote: https://github.com/yuvrajpandey1/devops-july/pull/new/feature-4
remote:
To https://github.com/yuvrajpandey1/devops-july.git
* [new branch] feature-4 -> feature-4
ubuntu@ip-172-31-36-172:~/dev-git-demo$
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