SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

SRM Nagar, Kattankulathur – 603 203,

SCHOOL OF COMPUTING

DEPARTMENT OF NETWORKING & COMMUNICATIONS

COURSE PROJECT

TITLE: HOSTING A WEBSITE ON CLOUD

COURSE CODE: 18CSC310J

COURSE NAME: DATA CENTIC NETWORKING AND SYSTEM DESIGN

FACULTY **:** Dr.SENTHAMARAI

TEAM MEMBERS:

KOLLI LOKA PRASHANTH REDDY-RA2011028010111

ABSTRACT:

Cloud Computing is a paradigm in which data, applications or software are accessed over a network. This network of servers is called as “Cloud”. Using a client such as desktops, entertainment centers, tablet computers, notebooks, wall computers, handhelds etc, users can reach into the cloud for resources as they need them. Cloud computing is on-demand access to virtualized IT resources that are housed outside of your own data center, shared by others, simple to use, paid for via subscription, and accessed over the Web. The main work in this project is to host Permit System as an application in the GoGrid cloud to analyze cloud services and architecture.

INDEX

TITLE : HOSTING A WEBSITE ON CLOUD

OBJECTIVE:

Objective of this project to demonstrate the Platform as a Service (PaaS) cloud service delivery model and to demonstrate the deployment of a website on cloud platform.

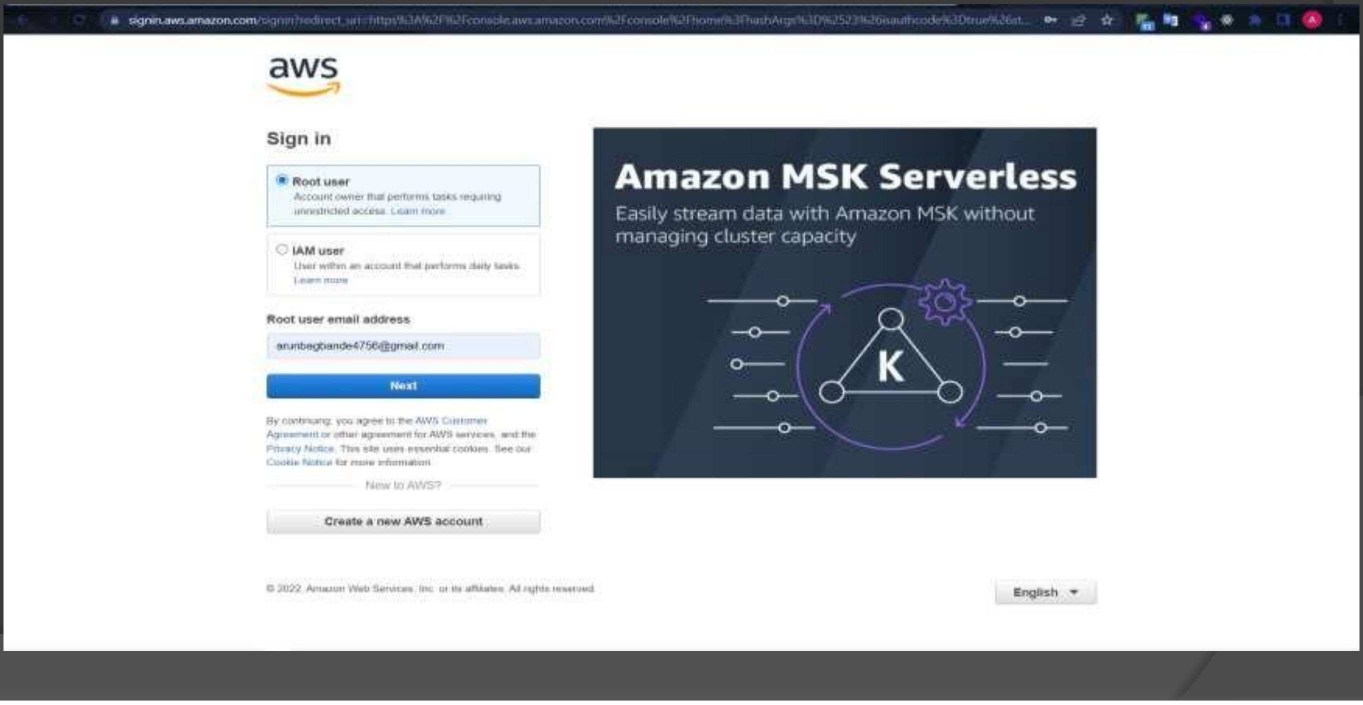
METHODOLOGY

What is Cloud Computing The term cloud referring to a network or the internet. It is a technology that uses remote servers on the internet to store, manage, and access data online rather than local drives. The data can be anything such as files, images, documents, audio, video, and more. There are the following operations that we can do using cloud computing:

□ Developing new applications and services
□ Storage, back up, and recovery of data
□ Hosting blogs and websites
□ Delivery of software on demand
□ Analysis of data
□ Streaming videos and audio

Approach

Step 1 - Create an AWS Account



signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26st...

Sign in

● Root user
Account owner that performs tasks requiring unrestricted access. Learn more

○ IAM user
User within an account that performs daily tasks. Learn more

Root user email address: arunbagbande4756@gmail.com

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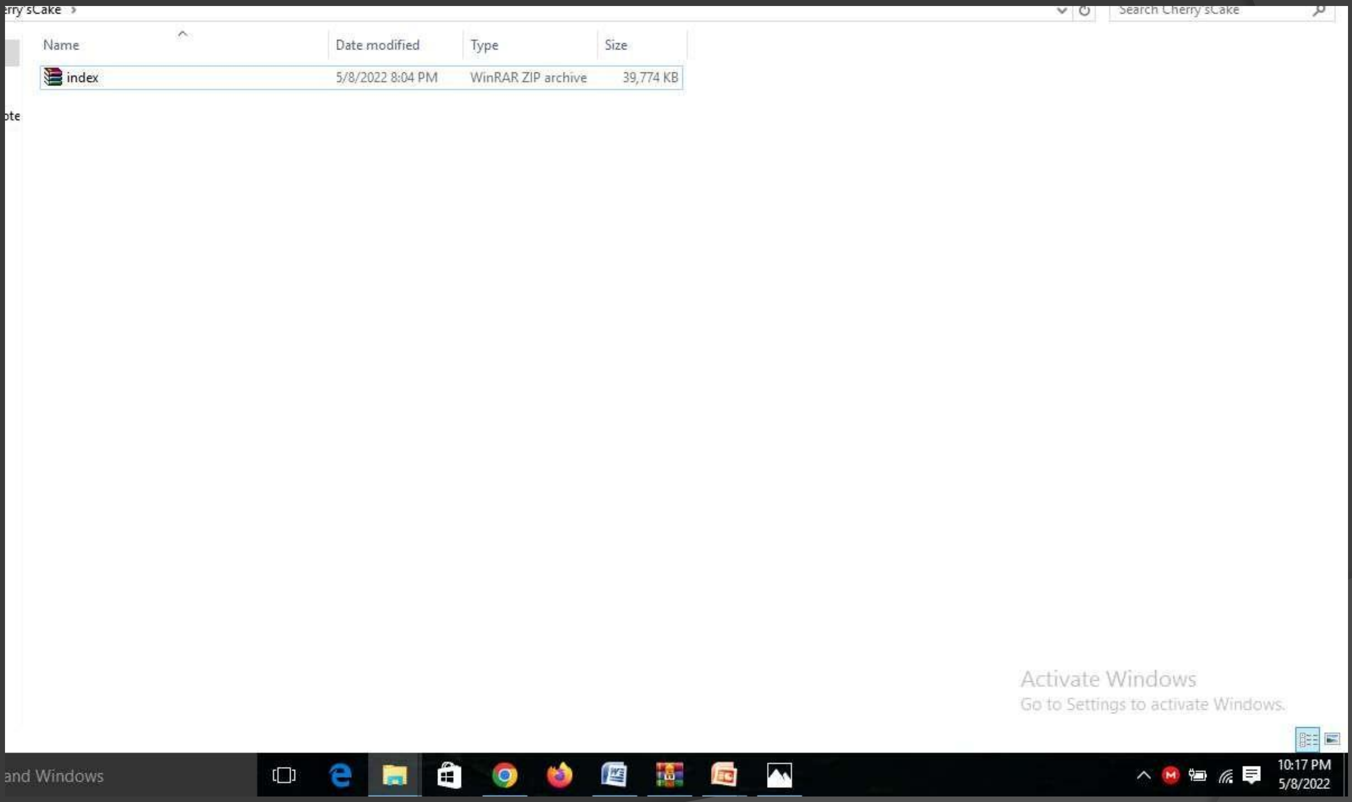
Step 2 - Move all the website files in one folder and zip it.

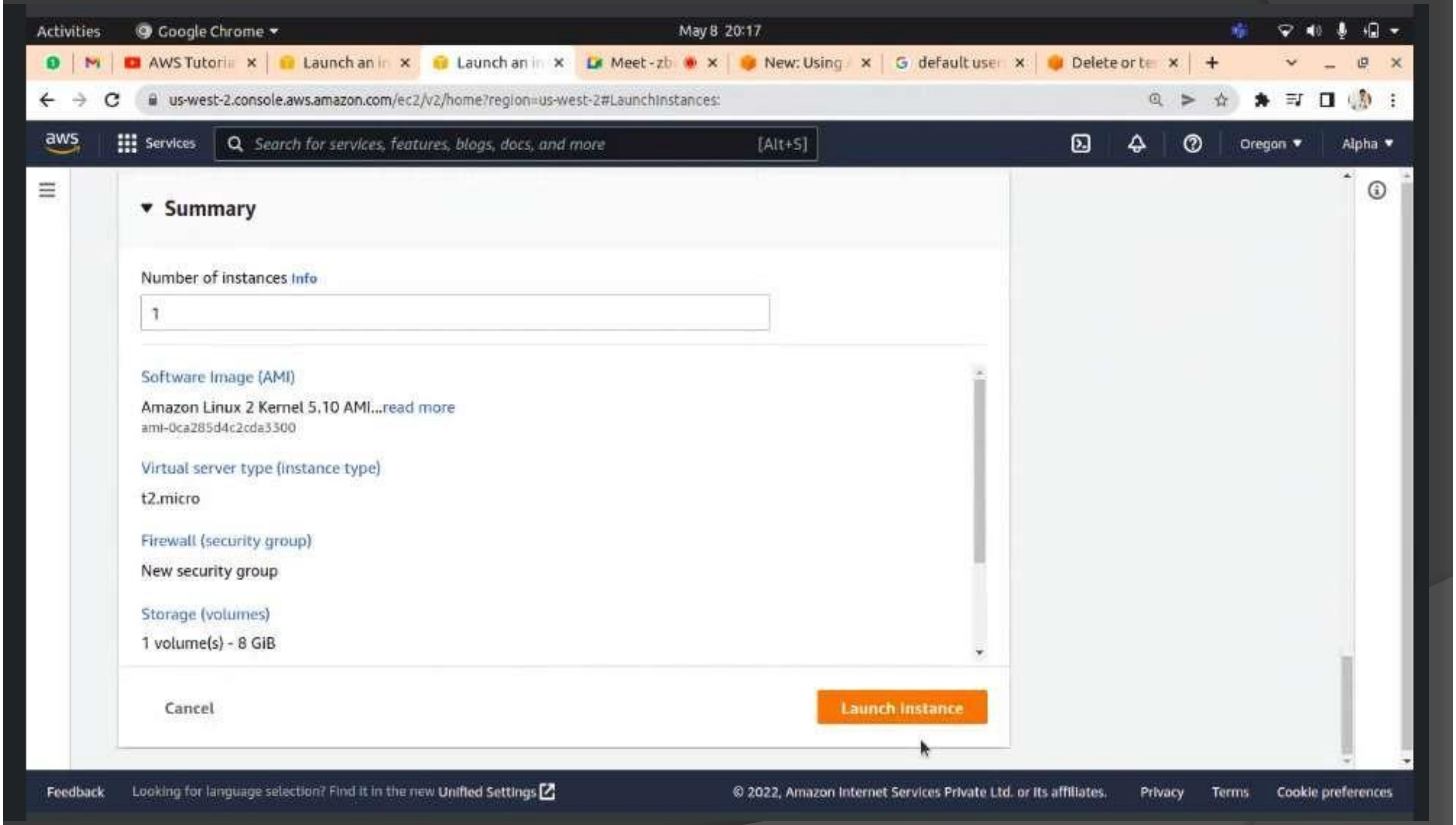


erry sCake ›

Search Cherry sCake

Name	Date modified	Type	Size
index	5/8/2022 8:04 PM	WinRAR ZIP archive	39,774 KB

Step 3 – Create an EC2 instance



Activities
Google Chrome
May 8 20:17
AWS Tutoria
Launch an in
Launch an in
Meet - zb
New: Using
default user
Delete or te
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstances:
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
Alpha

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ca285d4c2cda3300

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel
Launch instance
Feedback
Looking for language selection? Find it in the new Unified Settings
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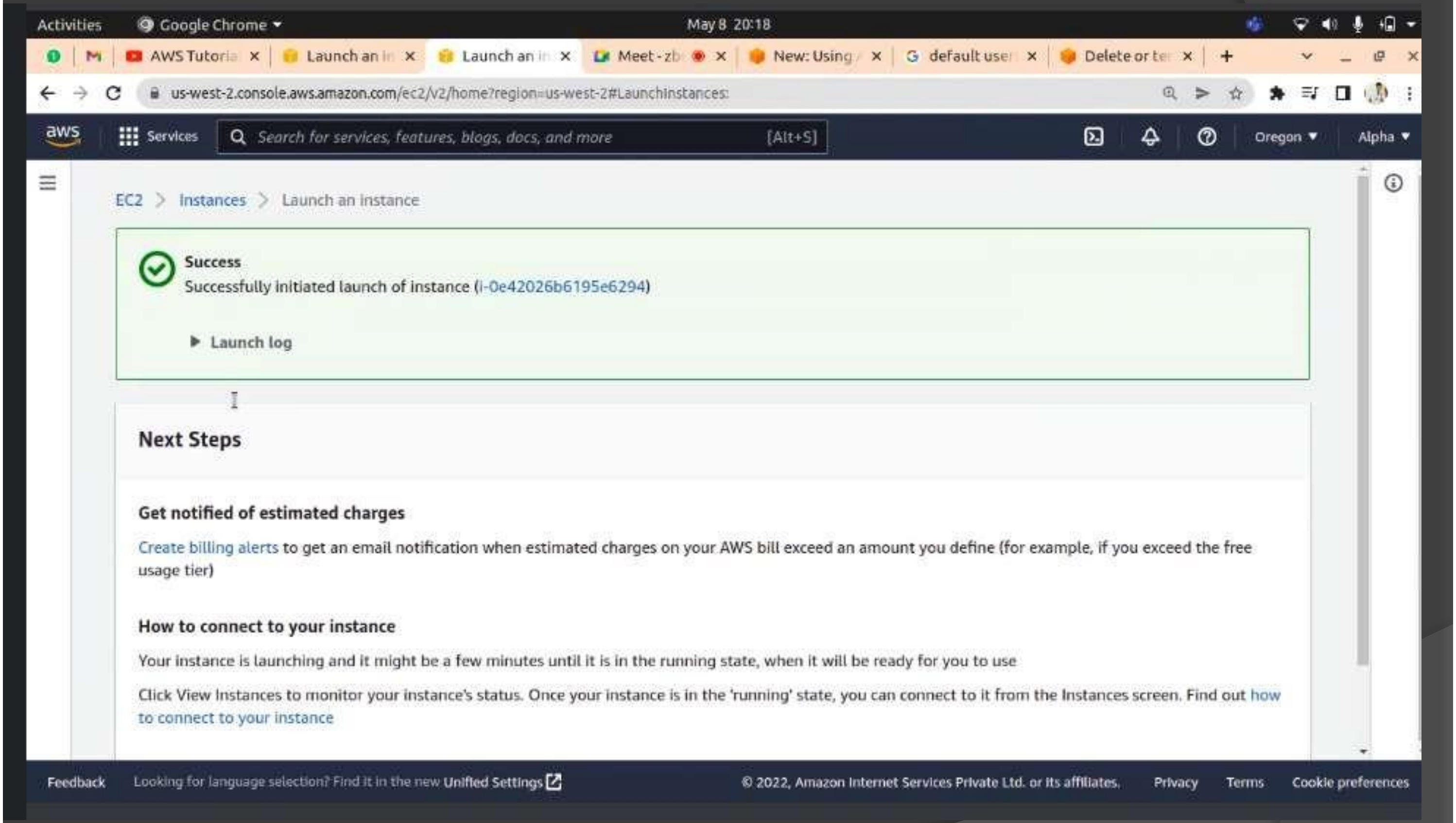
Privacy
Terms
Cookie preferences



Activities
Google Chrome
May 8 20:18
AWS Tutoria
Launch an in
Launch an in
Meet - zb
New: Using
default user
Delete or ter
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstances:
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon ▾
Alpha ▾
EC2 > Instances > Launch an instance

Success

Successfully initiated launch of instance (i-0e42026b6195e6294)

▶ Launch log

Next Steps

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)

How to connect to your instance

Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use

Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance

Feedback
Looking for language selection? Find it in the new Unified Settings
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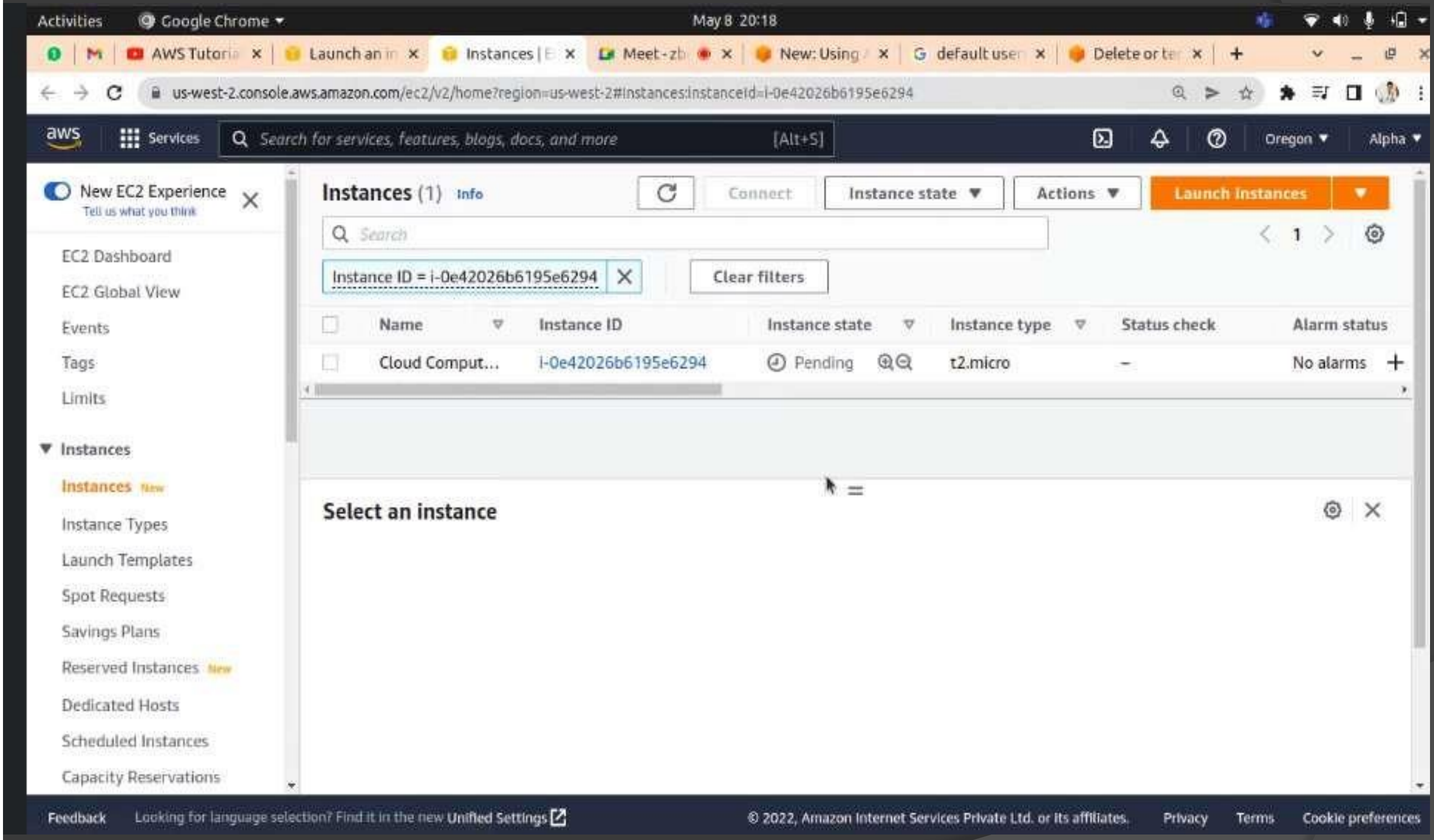
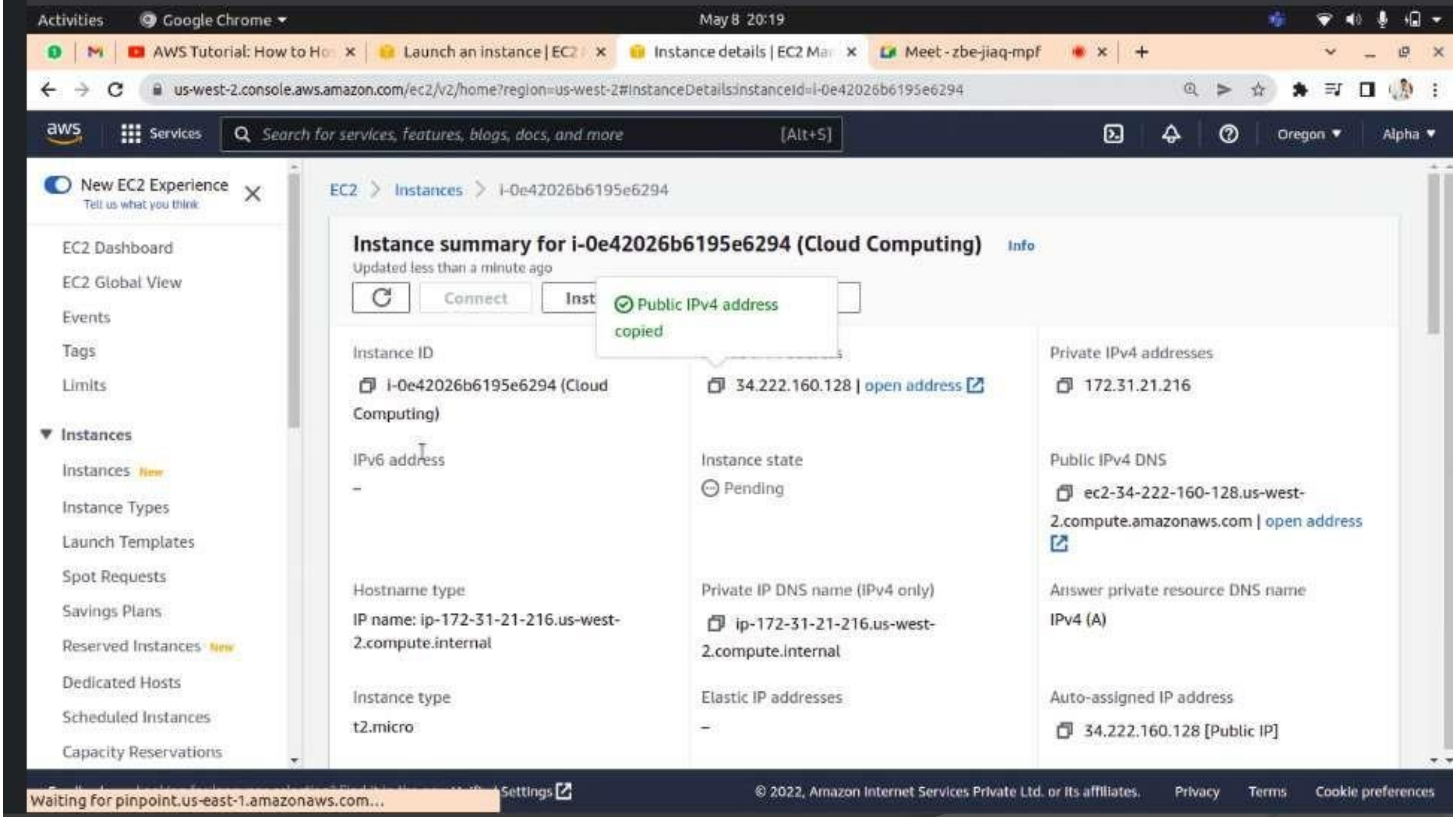


us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:instanceId=i-0e42026b6195e6294

Instance ID = i-0e42026b6195e6294

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Cloud Comput...	i-0e42026b6195e6294	Pending	t2.micro	–	No alarms

[illegible]



Instance summary for i-0e42026b6195e6294 (Cloud Computing) Info

Updated less than a minute ago

Public IPv4 address copied

Instance ID: i-0e42026b6195e6294 (Cloud Computing)

Public IPv4 address: 34.222.160.128 | open address

Private IPv4 addresses: 172.31.21.216

IPv6 address: –

Instance state: Pending

Public IPv4 DNS: ec2-34-222-160-128.us-west-2.compute.amazonaws.com | open address

Hostname type: IP name: ip-172-31-21-216.us-west-2.compute.internal

Private IP DNS name (IPv4 only): ip-172-31-21-216.us-west-2.compute.internal

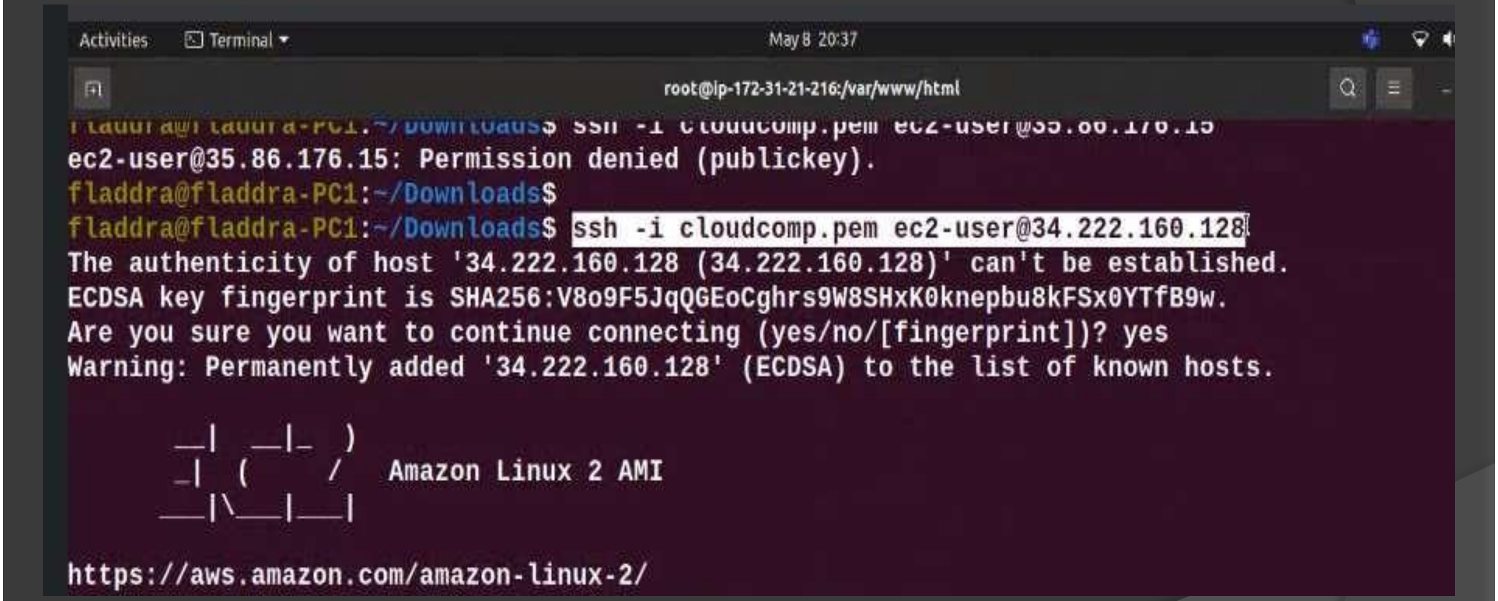
Answer private resource DNS name: IPv4 (A)

Instance type: t2.micro

Elastic IP addresses: –

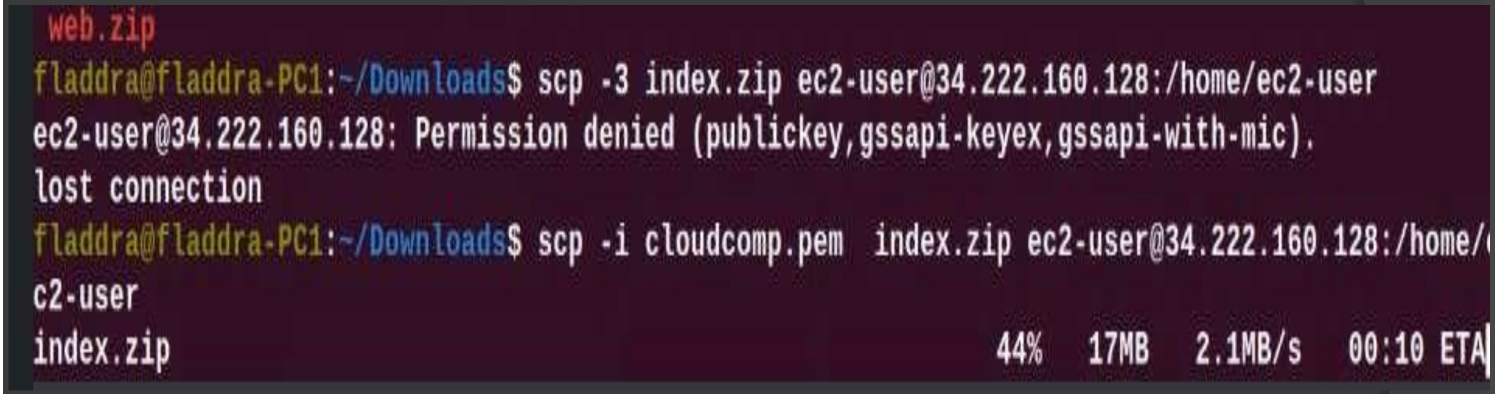
Auto-assigned IP address: 34.222.160.128 [Public IP]

Step 4 – instance into SSH

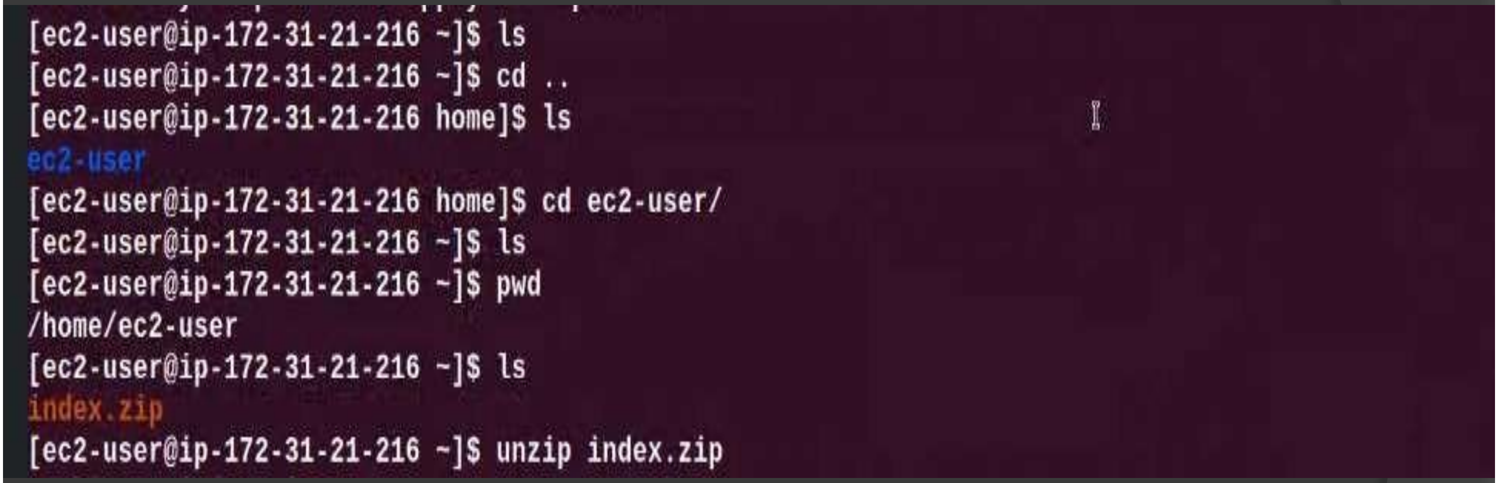


```
fladdra@fladdra-PC1:~/Downloads$ ssh -i cloudcomp.pem ec2-user@35.86.176.15
ec2-user@35.86.176.15: Permission denied (publickey).
fladdra@fladdra-PC1:~/Downloads$
fladdra@fladdra-PC1:~/Downloads$ ssh -i cloudcomp.pem ec2-user@34.222.160.128
The authenticity of host '34.222.160.128 (34.222.160.128)' can't be established.
ECDSA key fingerprint is SHA256:V8o9F5JqQGEoCghrs9W8SHxK0knepbu8kFSx0YTfB9w.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '34.222.160.128' (ECDSA) to the list of known hosts.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
```

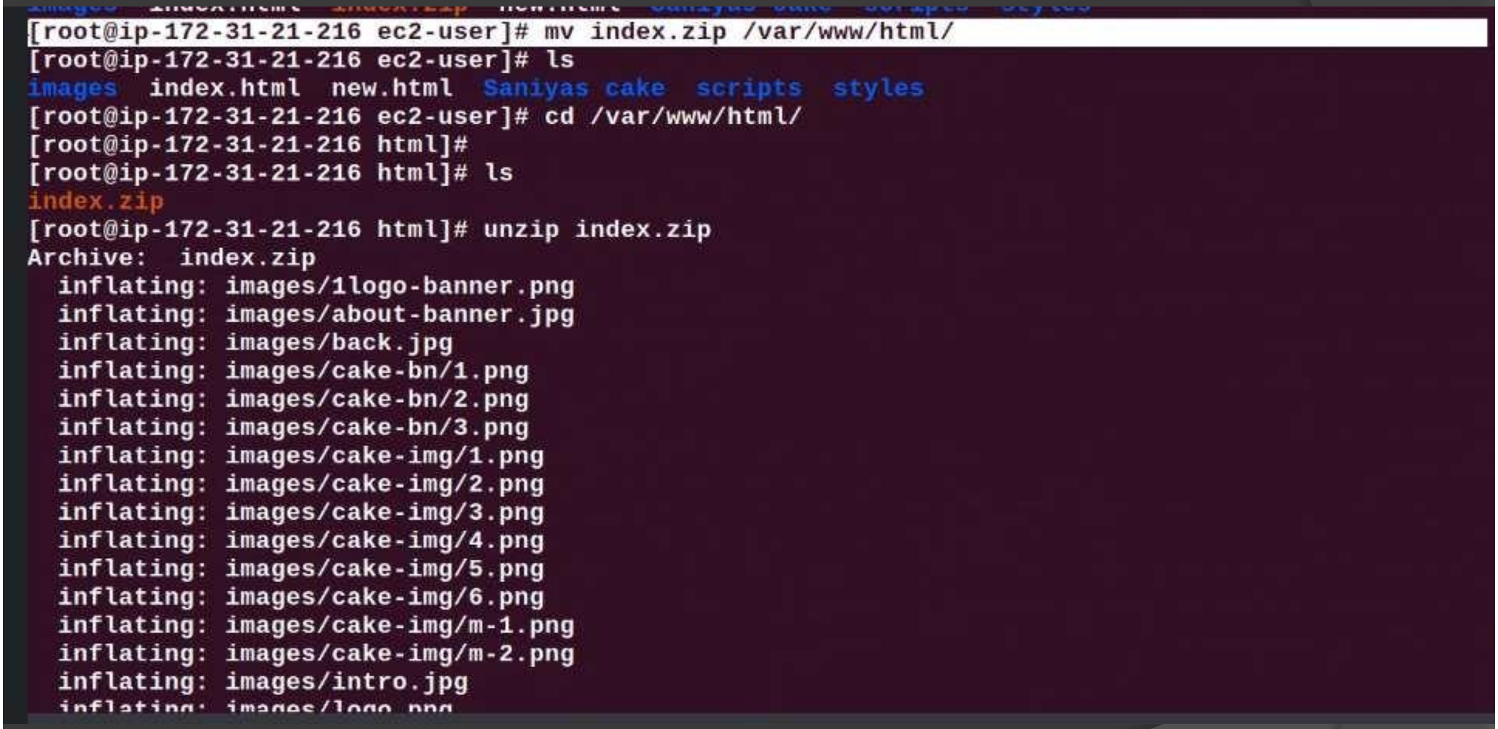
Step 5 – Download the project files



```
 web.zip
fladdra@fladdra-PC1:~/Downloads$ scp -3 index.zip ec2-user@34.222.160.128:/home/ec2-user
ec2-user@34.222.160.128: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
lost connection
fladdra@fladdra-PC1:~/Downloads$ scp -i cloudcomp.pem  index.zip ec2-user@34.222.160.128:/home/e
c2-user
index.zip                                              44%   17MB   2.1MB/s   00:10 ETA
```

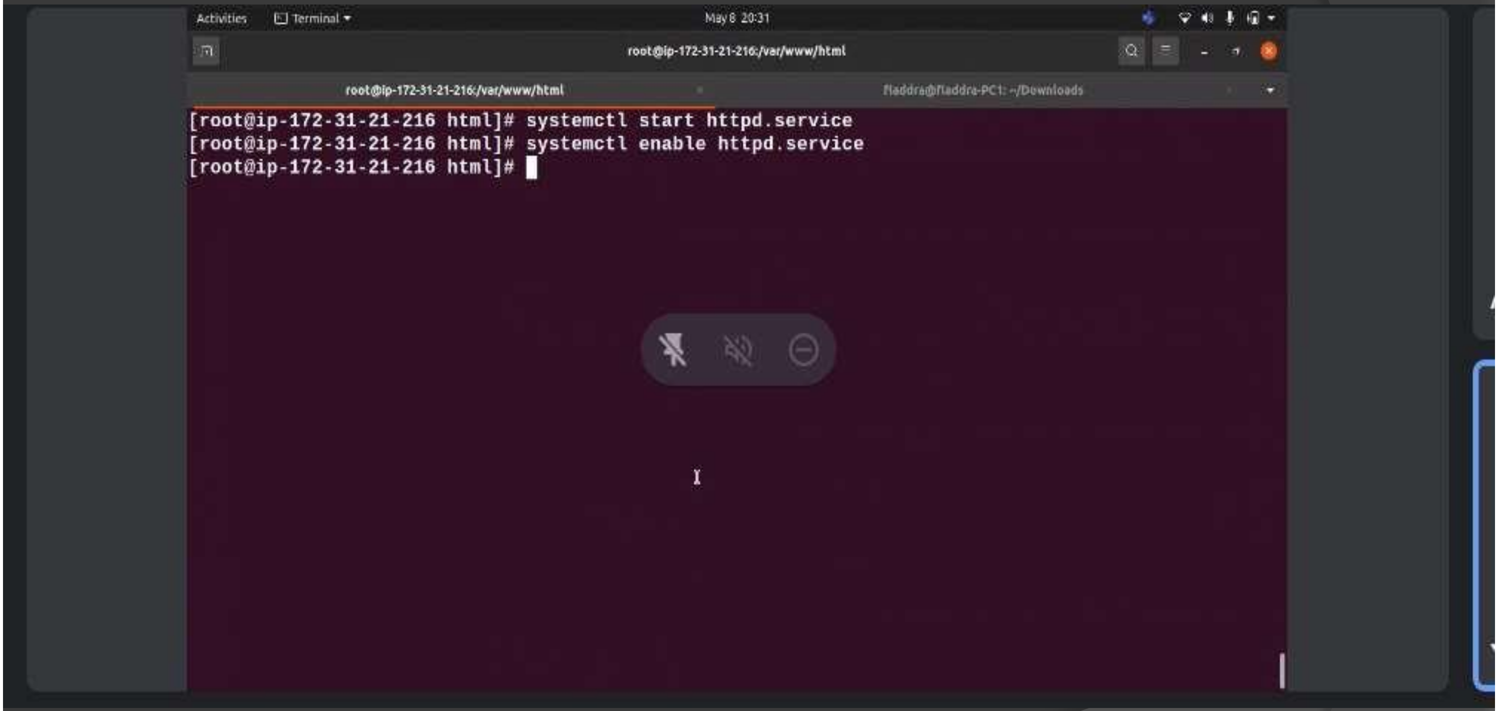


```
[ec2-user@ip-172-31-21-216 ~]$ ls
[ec2-user@ip-172-31-21-216 ~]$ cd ..
[ec2-user@ip-172-31-21-216 home]$ ls
ec2-user
[ec2-user@ip-172-31-21-216 home]$ cd ec2-user/
[ec2-user@ip-172-31-21-216 ~]$ ls
[ec2-user@ip-172-31-21-216 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-21-216 ~]$ ls
index.zip
[ec2-user@ip-172-31-21-216 ~]$ unzip index.zip
```



```
images  index.html  index.zip  new.html  Saniyas cake  scripts  styles
[root@ip-172-31-21-216 ec2-user]# mv index.zip /var/www/html/
[root@ip-172-31-21-216 ec2-user]# ls
images  index.html  new.html  Saniyas cake  scripts  styles
[root@ip-172-31-21-216 ec2-user]# cd /var/www/html/
[root@ip-172-31-21-216 html]#
[root@ip-172-31-21-216 html]# ls
index.zip
[root@ip-172-31-21-216 html]# unzip index.zip
Archive:  index.zip
  inflating: images/1logo-banner.png
  inflating: images/about-banner.jpg
  inflating: images/back.jpg
  inflating: images/cake-bn/1.png
  inflating: images/cake-bn/2.png
  inflating: images/cake-bn/3.png
  inflating: images/cake-img/1.png
  inflating: images/cake-img/2.png
  inflating: images/cake-img/3.png
  inflating: images/cake-img/4.png
  inflating: images/cake-img/5.png
  inflating: images/cake-img/6.png
  inflating: images/cake-img/m-1.png
  inflating: images/cake-img/m-2.png
  inflating: images/intro.jpg
  inflating: images/logo.png
```

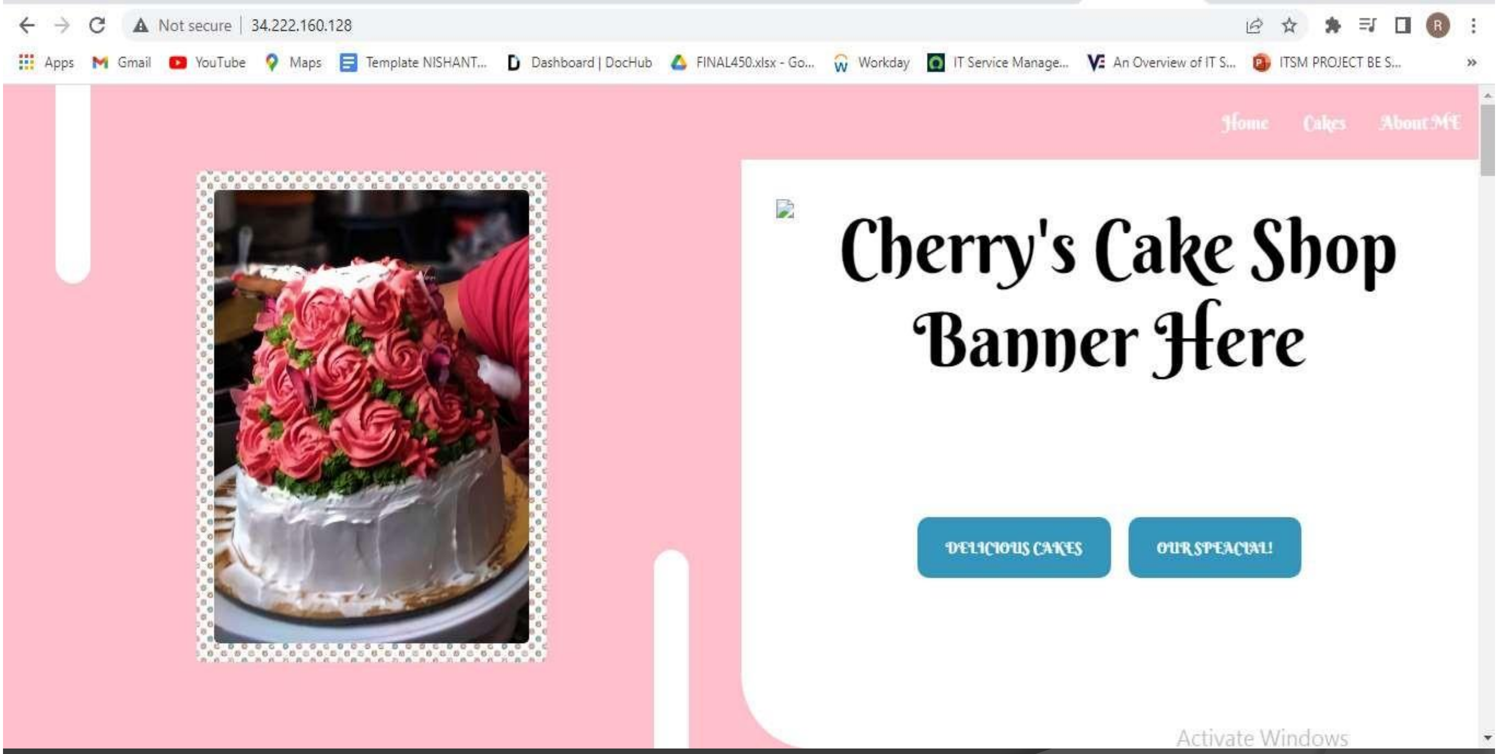
Step 6 – Enable the service



Activities
Terminal
May 8 20:31
root@ip-172-31-21-216:/var/www/html
root@ip-172-31-21-216:/var/www/html
fladdra@fladdra-PC1: ~/Downloads

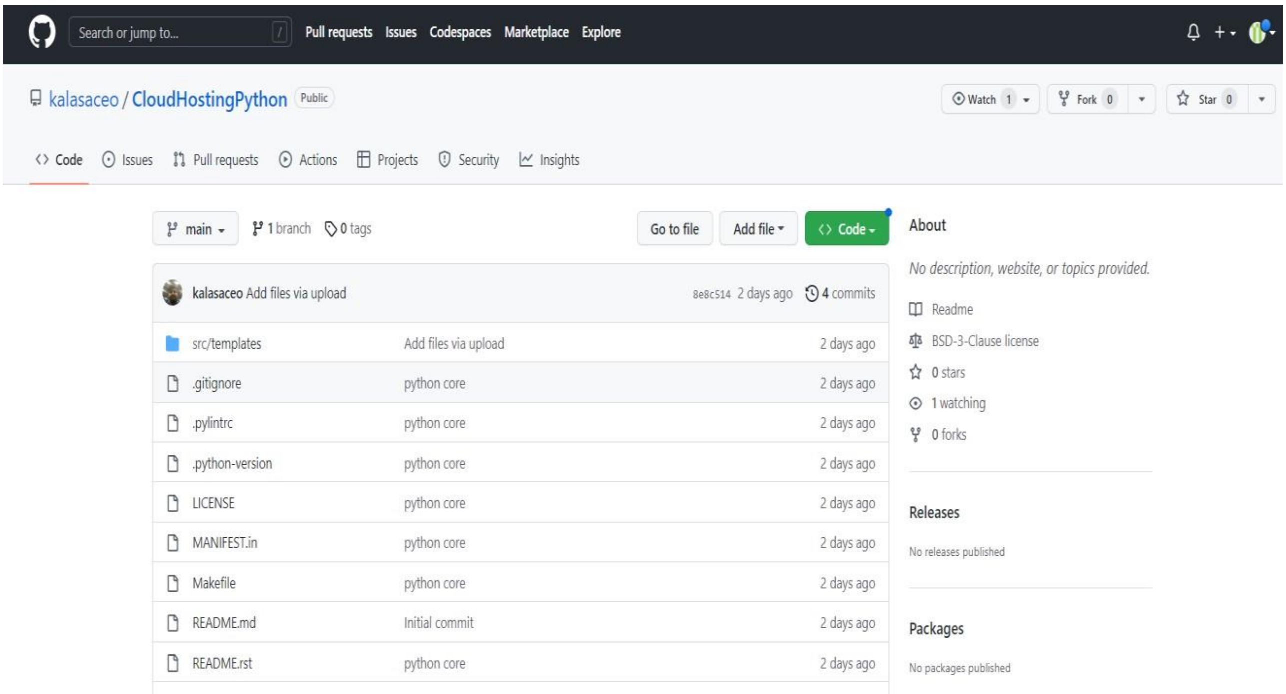
```
[root@ip-172-31-21-216 html]# systemctl start httpd.service
[root@ip-172-31-21-216 html]# systemctl enable httpd.service
[root@ip-172-31-21-216 html]# 
```

Step 7 – Run the website



PROOF OF GITHUB UPLOAD:

Repository Link: https://github.com/kalasaceo/CloudHostingPython



kalasaceo Add files via upload 8e8c514 2 days ago 4 commits

src/templates	Add files via upload	2 days ago
.gitignore	python core	2 days ago
.pylintrc	python core	2 days ago
.python-version	python core	2 days ago
LICENSE	python core	2 days ago
MANIFEST.in	python core	2 days ago
Makefile	python core	2 days ago
README.md	Initial commit	2 days ago
README.rst	python core	2 days ago

About

No description, website, or topics provided.

Readme

BSD-3-Clause license

0 stars

1 watching

0 forks

Releases

No releases published

Packages

No packages published

CONCLUSION:

We have successfully deployed website on AWS cloud platform.