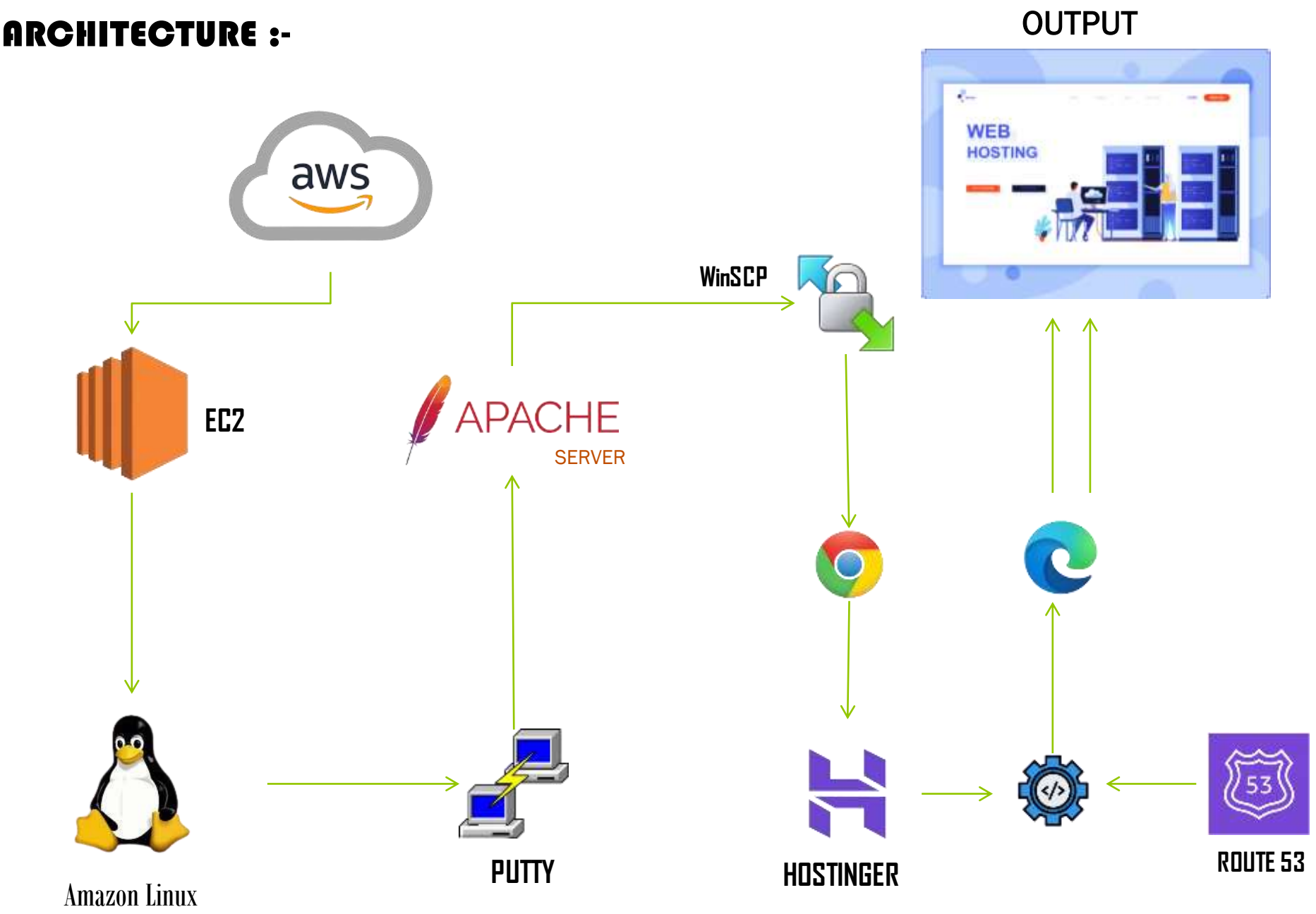
HOSTING A STATIC WEBSITE USING AWS

ARCHITECTURE :-



EXPLANATION :

Hosting a static Webpage With the help of Amazon web service (AWS) . For this Project the services we are going to use is Elastic compute Cloud (Ec2) which is used To Run Multiple different Operating System (OS) remotely at low cost ,So here we are Going to Run the Amazon Linux and install the Apache server for webpage hosting . Apache is a HTTP Server it is widely used to deliver web content over the internet . Meanwhile it is Open source Software .Then With the help of tool WinSCP we are Going to Transfer the Assest From windows to Linux , Here WinSCP is Basically use to Transfer the File among different OS . Route 53 This service is used particularly for Private Domain Configuring , Here we are going to Purchase a Private domain Using Hostinger Platform and configuring the Purchased domain with the Route 53 Service to reduce the server downtime we are going to add Routing policies .

TECHNOLOGY USED :

Amazon Web Service

HOSTINGER

HTML

EC2

Amazon Linux

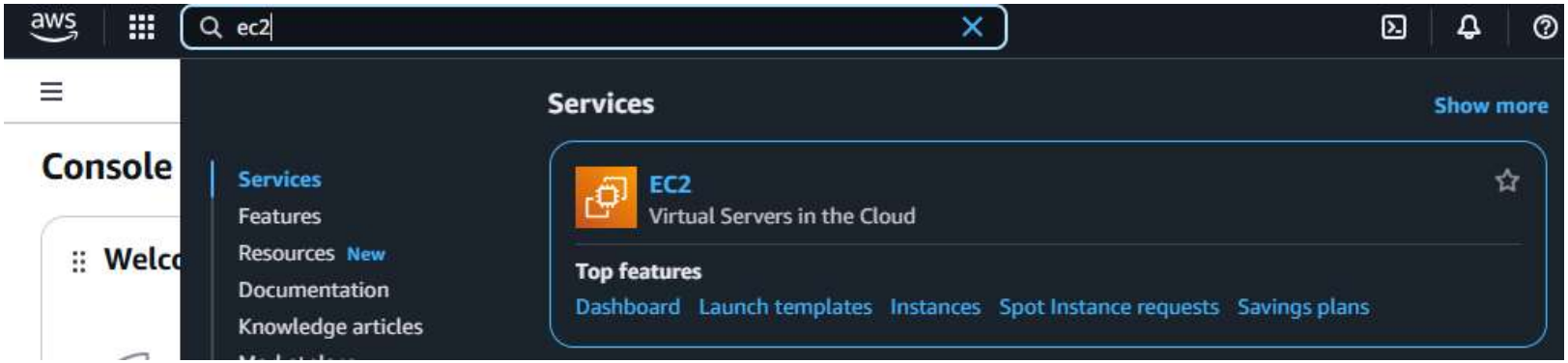
WinSCP

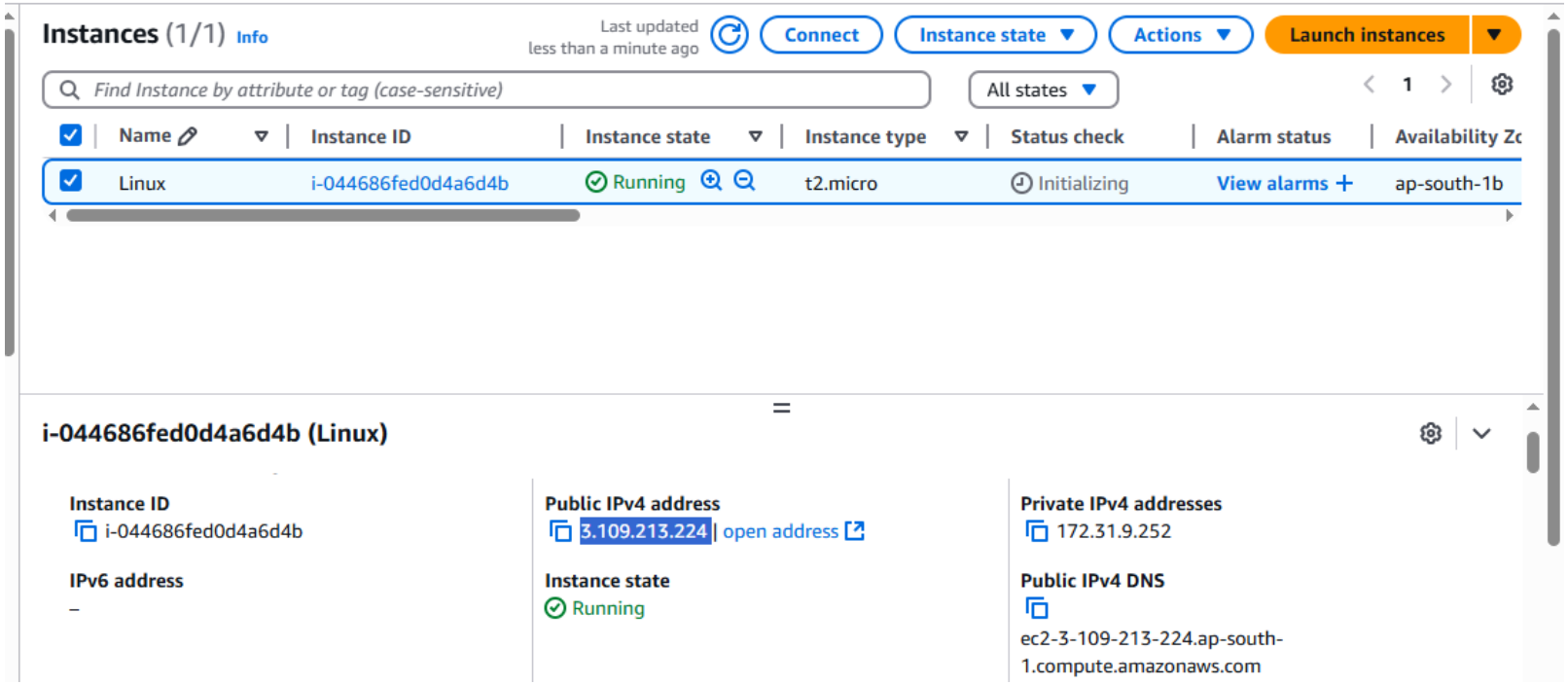
Route 53

PUTTY

APACHE SERVER

WORKING SAMPLE :





PuTTY Configuration

Category:

- Session
  - Logging
- Terminal
  - Keyboard
  - Bell
  - Features
- Window
  - Appearance
  - Behaviour
  - Translation
  - Selection
  - Colours
- Connection
  - Data
  - Proxy
  - SSH
  - Serial
  - Telnet
  - Rlogin
  - SUPDUP

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address) | Port

3.109.213.224 | 22

Connection type:

(•) SSH ( ) Serial ( ) Other: Telnet

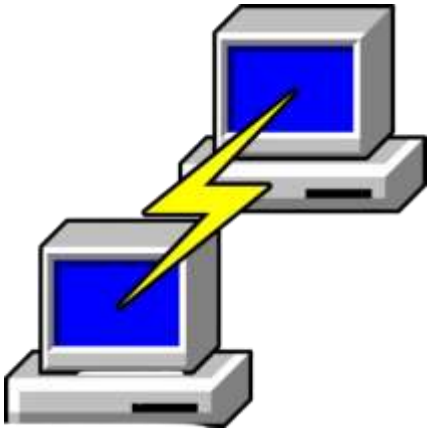
Load, save or delete a stored session

Saved Sessions

Default Settings

Load | Save | Delete

About | He

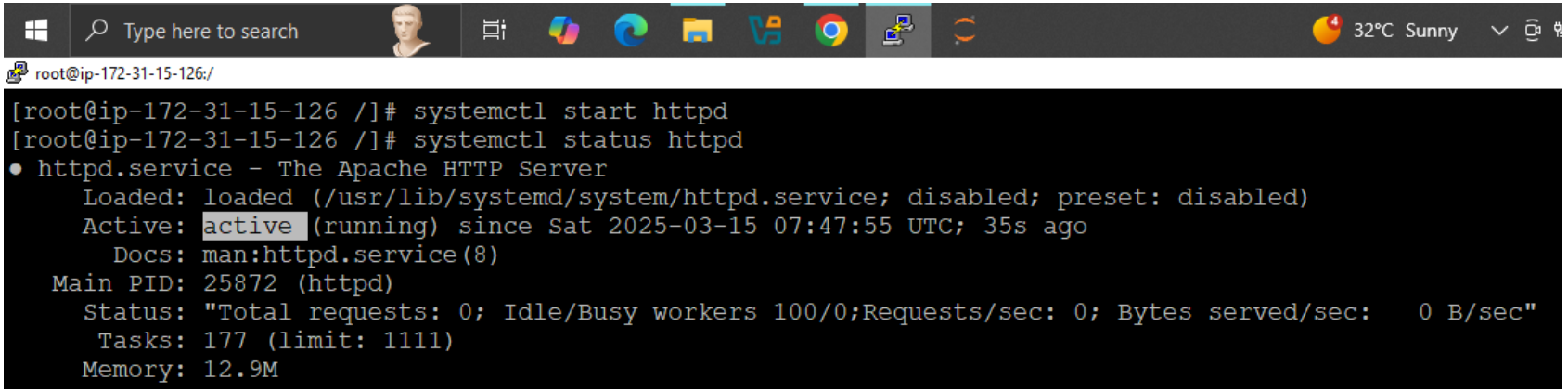


```
login as: ec2-user
Authenticating with public key "NEWKEY"
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-9-252 ~]$ cd /
[ec2-user@ip-172-31-9-252 /]$
```

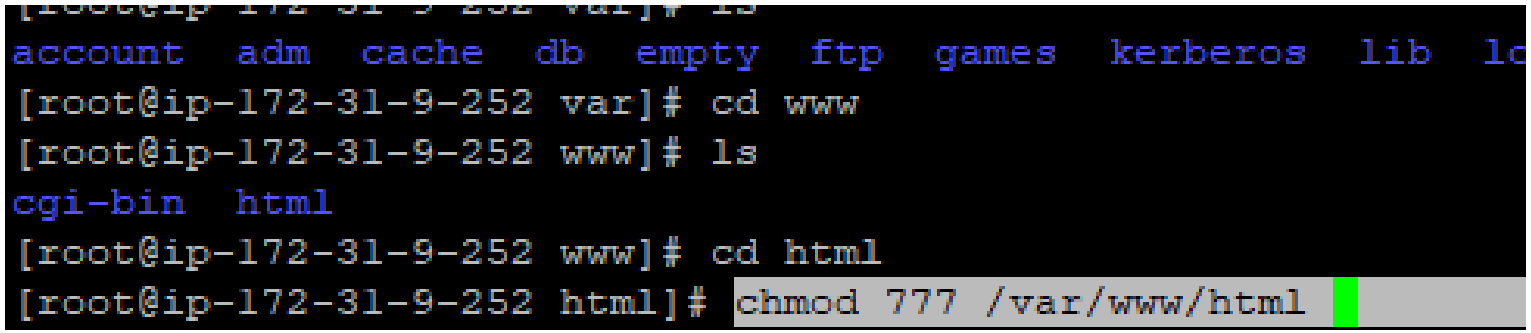
APACHE INSTALLATION

sudo – i →	Changing as Root User
cd / →	Change Directory
Yum install httpd –y →	Installing Apache
systemctl start httpd →	Starting Apache server
systemctl status httpd →	Status check for apache
Chmod 777 /var/html/www →	File Permission for apache directory
Touch index.html →	File contain source code

APACHE INSTALLATION :



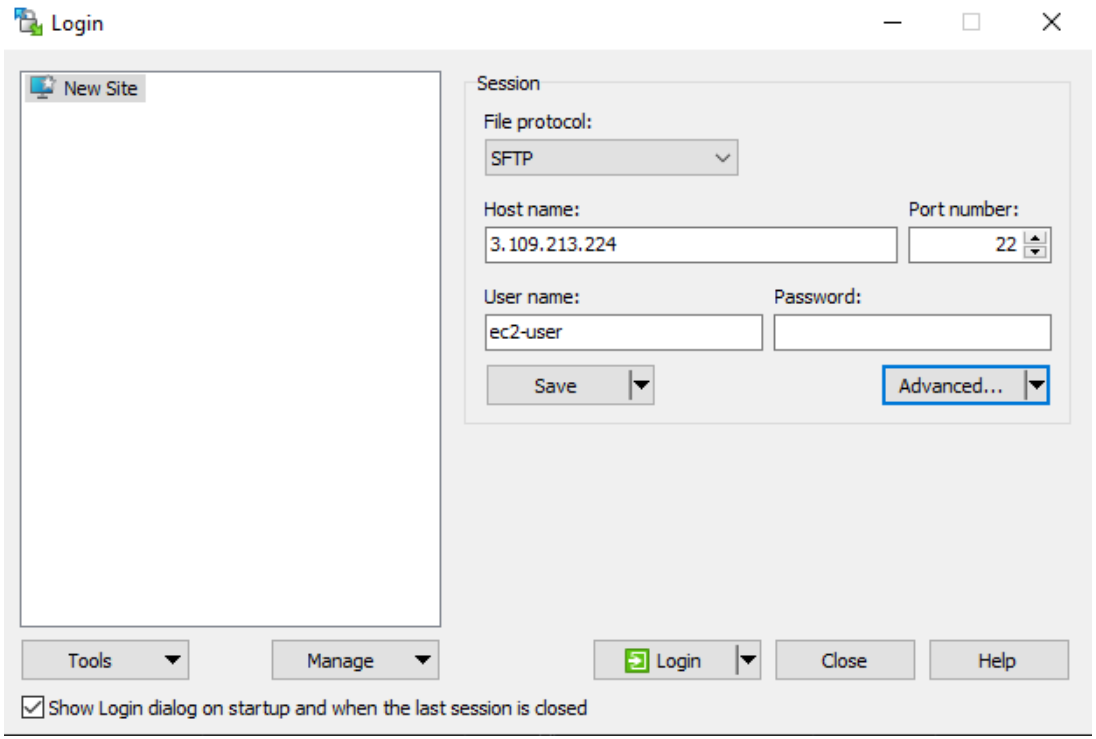
FILE PERMISSION :



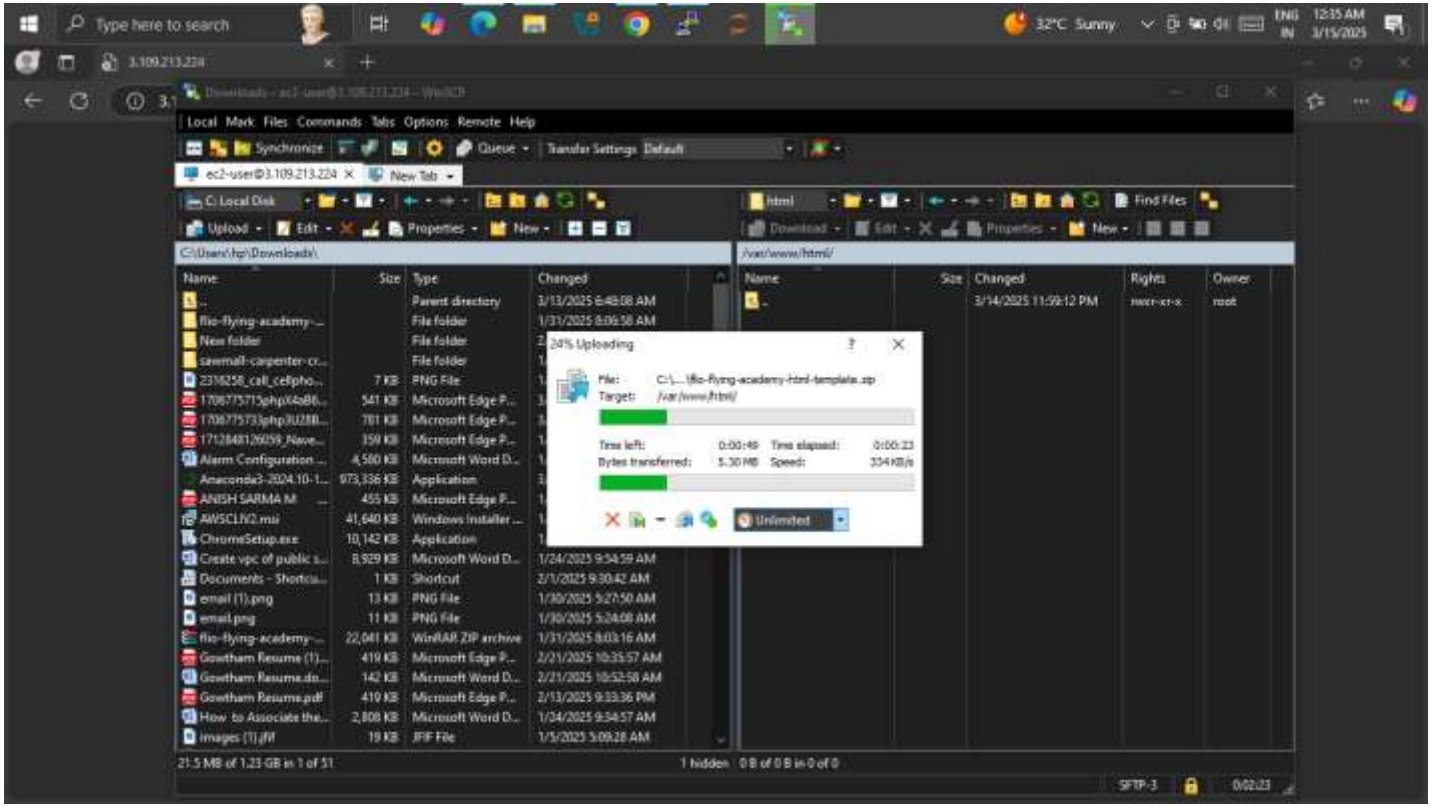
CONNECTING WINSCP

- WinScp is a software used to Transfer data and files among different OS without any difficulties.

- WinScp in connect to the specific OS through IP address and Security key,



SOURCE CODE TRANSFER VIA WINSCP



SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Vels University - Home</title>

  <!-- Google Fonts -->
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap"
      rel="stylesheet">
  <link href="https://fonts.googleapis.com/css2?family=Cinzel:wght@700&display=swap"
      rel="stylesheet">
```

```
<style>
  * {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
  }

  body {
    background-color: #000000;
    color: #ffffff;
    font-size: 16px;
    line-height: 1.6;
  }
  header {
    background-color: #111111;
    padding: 20px;
    text-align: center;
    box-shadow: 0 2px 5px rgba(255, 165, 0, 0.2);
  }

  .logo {
    max-width: 200px;
    height: auto;
    margin-bottom: 20px;
  }
```

.

```
@keyframes fadeInSlideUp {
    0% {
      opacity: 0;
      transform: translateY(30px);
    }

    100% {
      opacity: 1;
      transform: translateY(0);
    }
  }

  .welcome-message {
    background-color: #ff6600;
    padding: 50px 20px;
    text-align: center;
    opacity: 0;
    animation: fadeInSlideUp 2s ease-out forwards;
  }
.
```

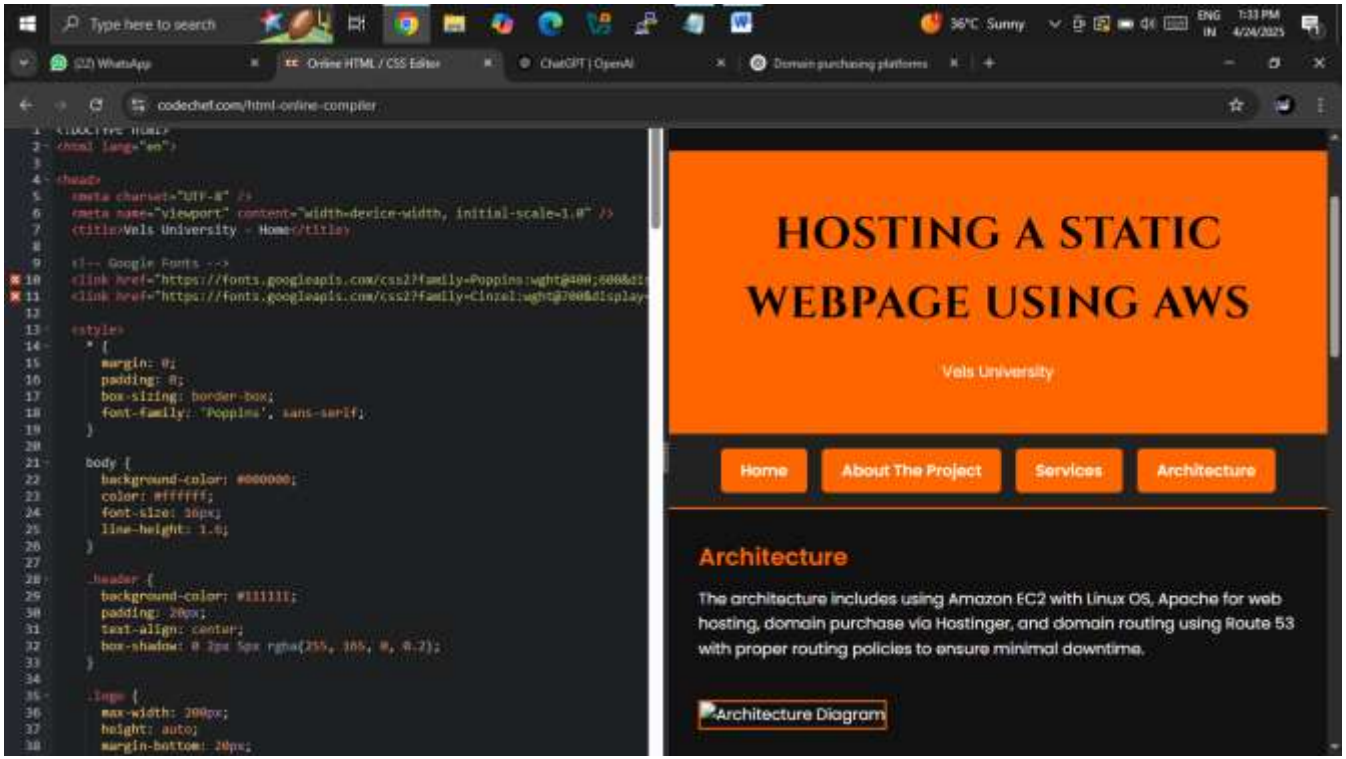
```
.aws-title {
      font-family: 'Cinzel', serif;
      font-weight: 700;
      letter-spacing: 1px;
      font-size: 2.8em;
      text-transform: uppercase;
      margin-bottom: 20px;
      color: #000000;
    }

    .nav-bar {
      background-color: #222222;
      padding: 15px;
      text-align: center;
      display: flex;
      justify-content: center;
      gap: 15px;
      flex-wrap: wrap;
    }
```

```
.nav-bar a {
      color: #ffffff;
      background-color: #ff6600;
      padding: 10px 20px;
      text-decoration: none;
      border-radius: 5px;
      font-weight: 600;
      font-size: 1em;
      transition: background-color 0.3s, color 0.3s;
      display: inline-block;
      cursor: pointer;
    }

    .nav-bar a:hover {
      background-color: #ffa347;
      color: #000;
    }
    .content {
      display: none;
      padding: 30px;
      background-color: #111111;
      border-top: 2px solid #ff6600;
    }
```

```
.content.active {
    display: block;
    animation: slideFade 1s ease;
  }

  @keyframes slideFade {
    0% {
      opacity: 0;
      transform: translateY(20px);
    }

    100% {
      opacity: 1;
      transform: translateY(0);
    }
  }
```

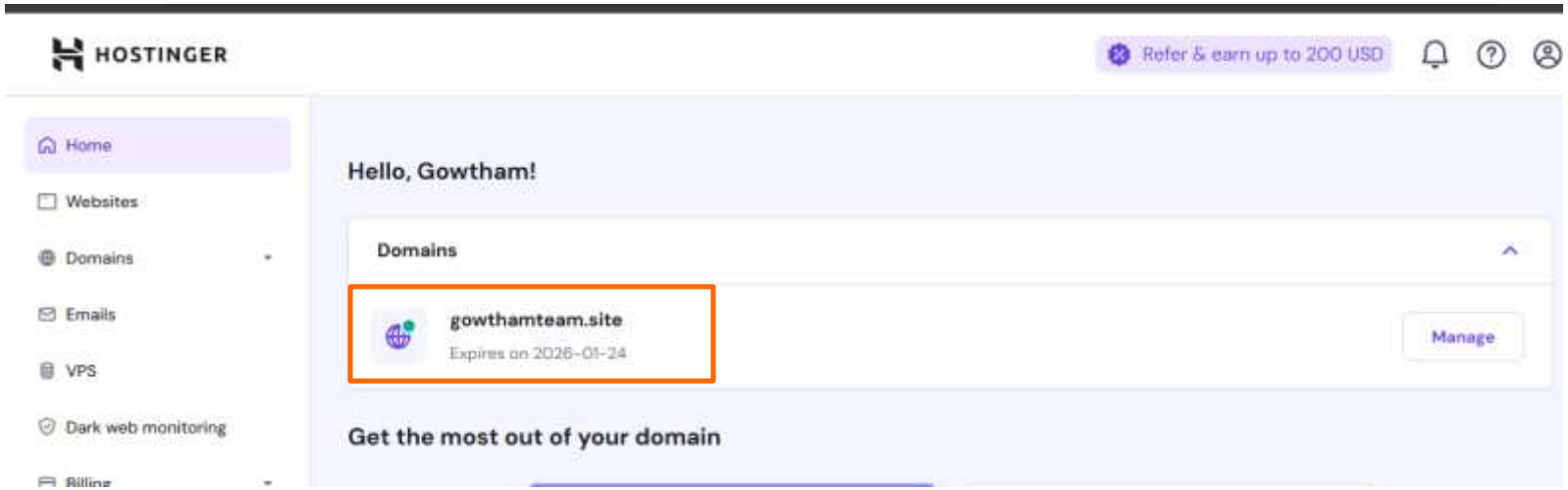
```
pre {
    background-color: #222222;
    padding: 10px;
    border-left: 4px solid #ff6600;
    overflow-x: auto;
  }

  .architecture-image {
    width: 100%;
    max-width: 800px;
    height: auto;
    border: 2px solid #ff6600;
    margin-top: 20px;
  }

  .tool-icons {
    display: flex;
    flex-wrap: wrap;
    justify-content: center;
    gap: 20px;
    margin-top: 20px;
  }
```

TEST PAGE :

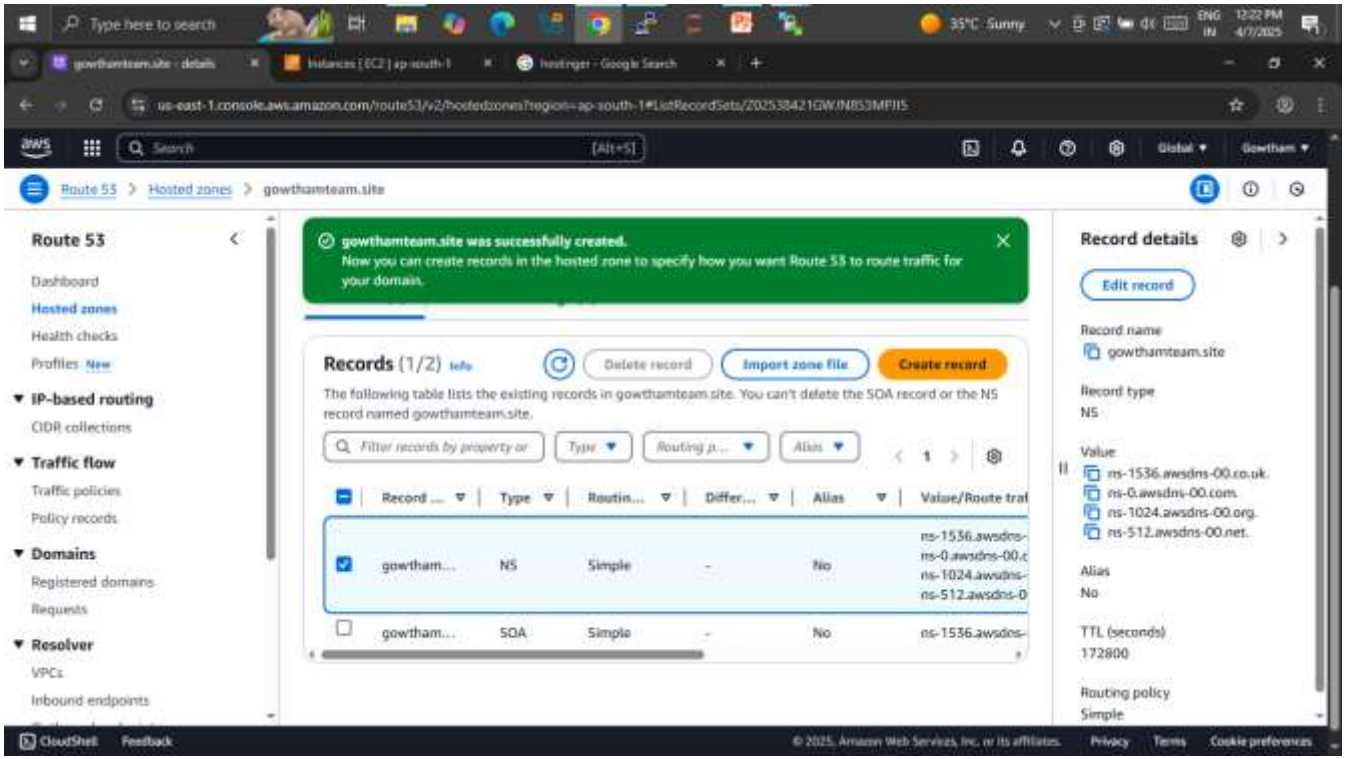

Type here to search
codechef.com/html-online-compiler
HOSTING A STATIC WEBPAGE USING AWS
Vels University
Home
About The Project
Services
Architecture
Architecture
The architecture includes using Amazon EC2 with Linux OS, Apache for web hosting, domain purchase via Hostinger, and domain routing using Route 53 with proper routing policies to ensure minimal downtime.
Architecture Diagram

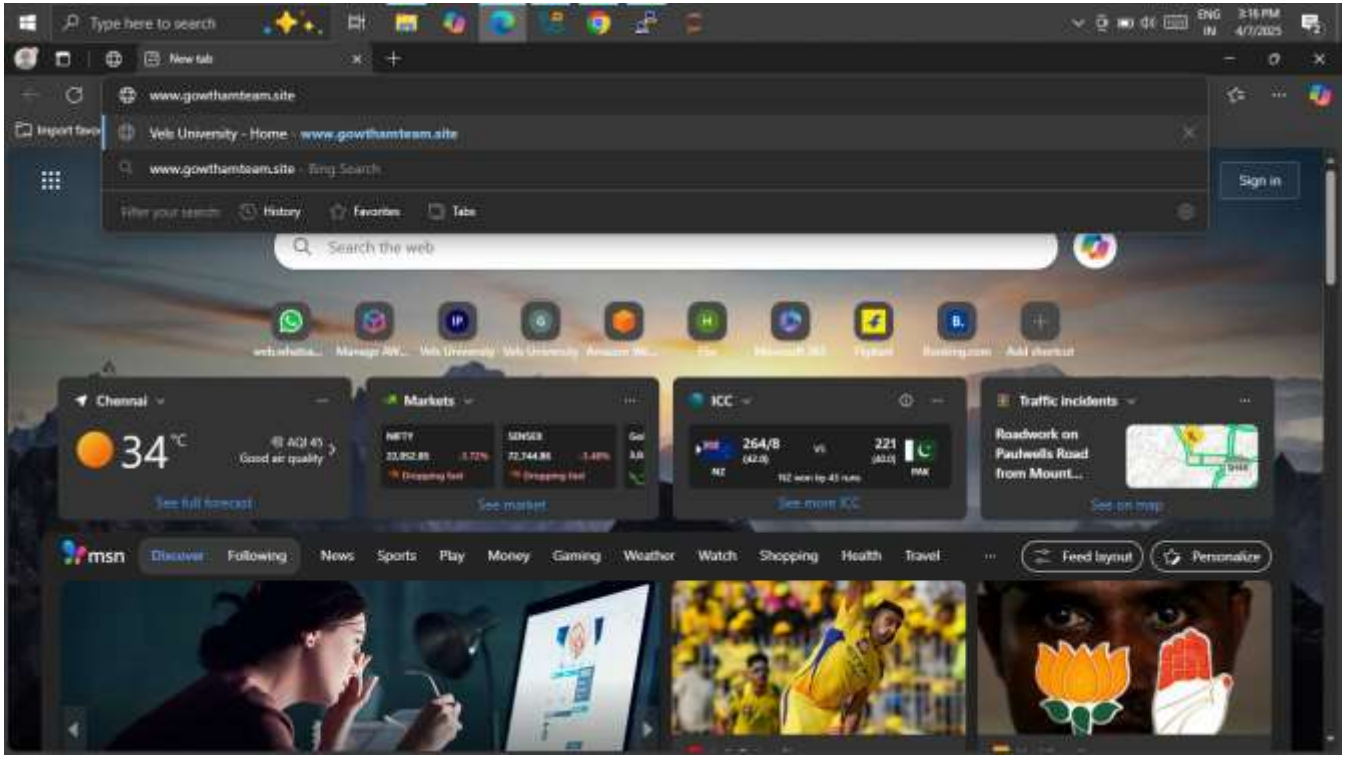
PRIVATE DOMAIN :

Purchasing Private Domain “gowthateam.site” from hostinger

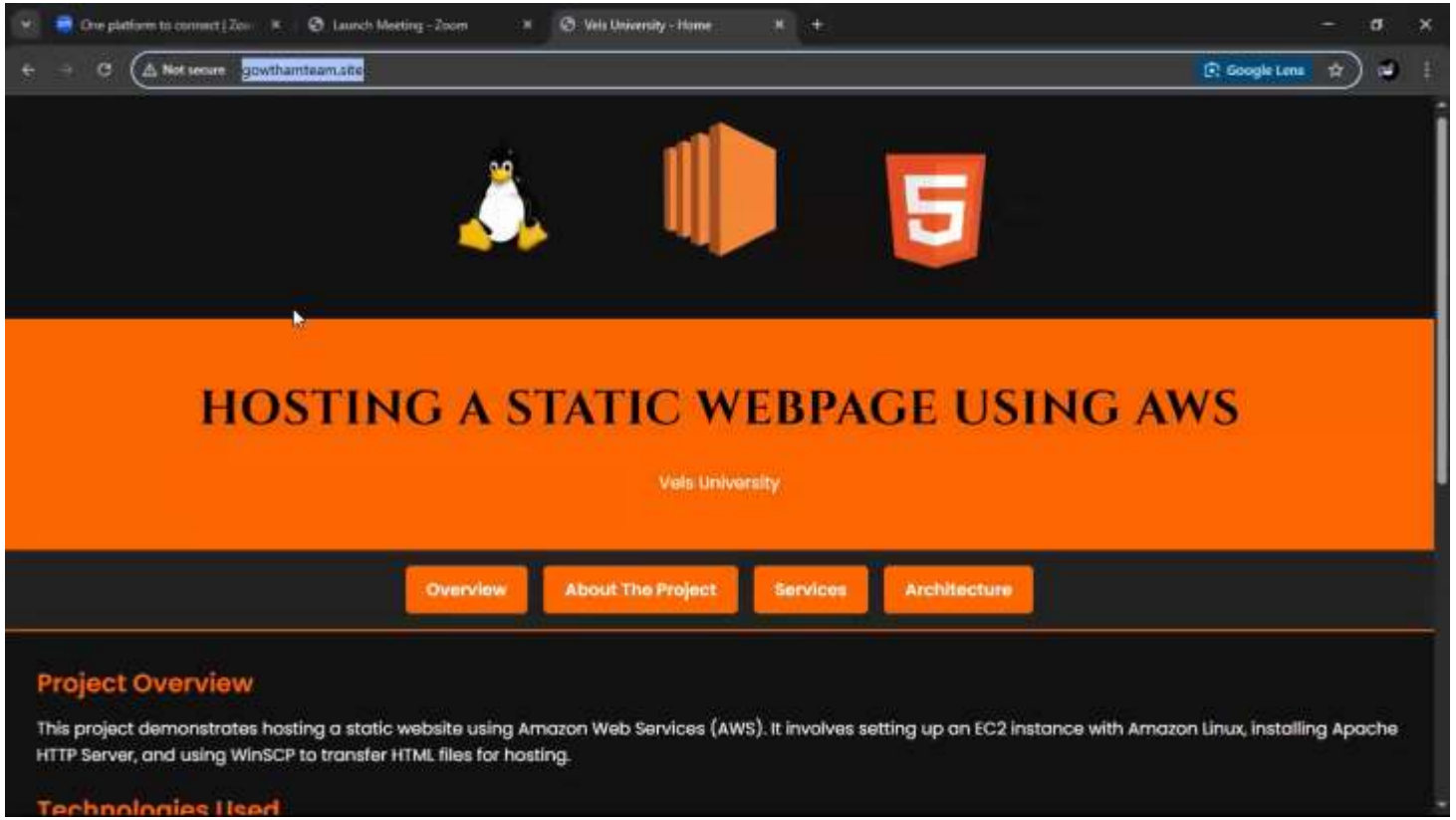


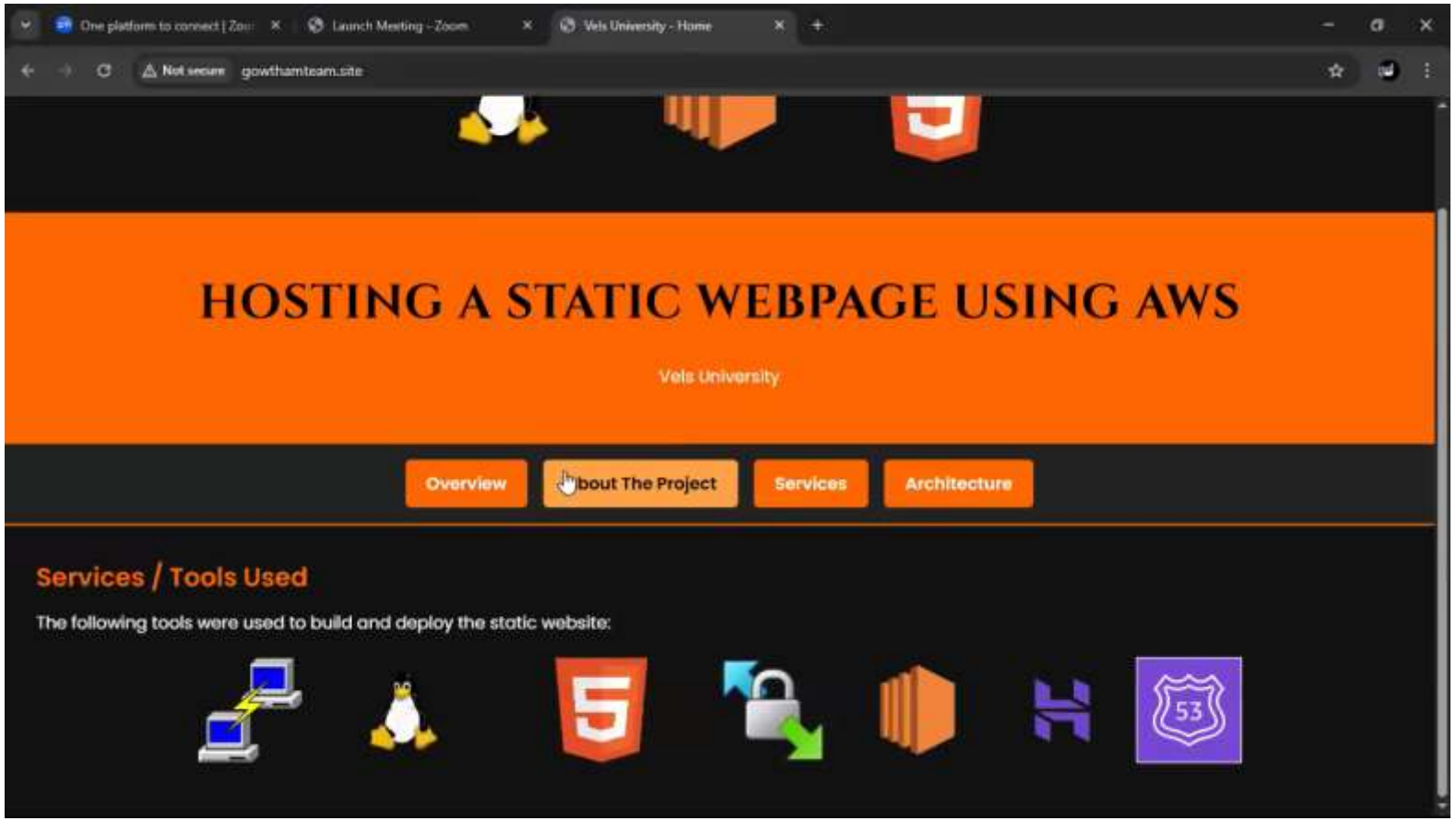
CONFIGURING PRIVATE DOMAIN VIA ROUTE 53




Type here to search
New tab
www.gowthamteam.site
Vels University - Home · www.gowthamteam.site
www.gowthamteam.site - Bing Search
History
Favorites
Tabs
Sign in
Search the web
Chennai
34 °C
AQI 45
Good air quality
See full forecast
Markets
See market
ICC
264/8
221
See more ICC
Traffic incidents
Roadwork on Paulwells Road from Mount...
msn
Discover
Following
News
Sports
Play
Money
Gaming
Weather
Watch
Shopping
Health
Travel
Feed layout
Personalize

OUTPUT :


Not secure
gowthamteam.site
Google Lens
HOSTING A STATIC WEBPAGE USING AWS
Vels University
Overview
About The Project
Services
Architecture
Project Overview
This project demonstrates hosting a static website using Amazon Web Services (AWS). It involves setting up an EC2 instance with Amazon Linux, installing Apache HTTP Server, and using WinSCP to transfer HTML files for hosting.


Launch Meeting - Zoom
Vels University - Home
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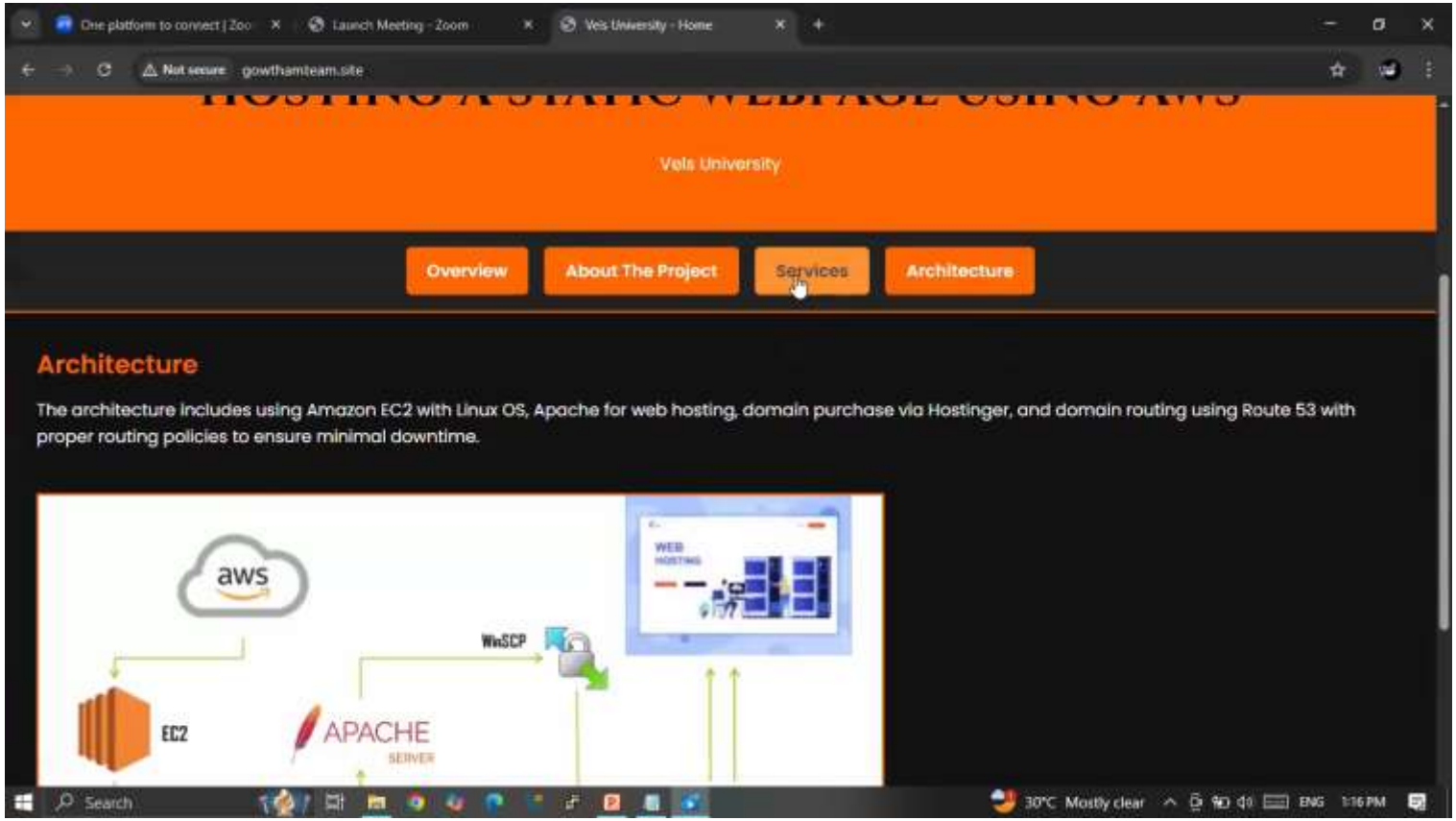
HOSTING A STATIC WEBPAGE USING AWS
Vels University
Overview
bout The Project
Services
Architecture
Services / Tools Used
The following tools were used to build and deploy the static website:
53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aws
WinSCP
EC2
APACHE
SERVER
WEB HOSTING
Search
30°C Mostly clear
ENG
1:16 PM

THANK YOU