HOSTING A STATIC WEBSITE USING AWS













OUTPUT ARCHITECTURE :-WEB HOSTING aws WinSCP EC2 SERVER **ROUTE 53 PUTTY** HOSTINGER **Amazon Linux**

EXPLANATION:

Deploy a static webpage using AWS, by launching an EC2 instance with the Amazon Linux 2 operating system. EC2 allows us to remotely run and manage servers. After launching the instance, we install the Apache HTTP Server, which is open-source software widely used to host web content. Apache serves our static website files (HTML, CSS, etc.) to users via HTTP. To transfer website assets from a Windows machine to the Linux server, we use WinSCP, a tool that enables secure file transfer using the EC2 instance's public IP and private key. Once the website files are in place, we can access the site through the EC2's public IP. To link a custom domain, we purchase one through Hostinger and configure it using Amazon Route 53. Route 53 handles DNS and maps the domain to the EC2 instance, making the site accessible by name instead of IP. We update the Hostinger domain's nameservers to point to Route 53. Finally, we can add routing policies in Route 53 to reduce server downtime and improve performance.

TECHNOLOGY USED:











Amazon Linux



WinSCP



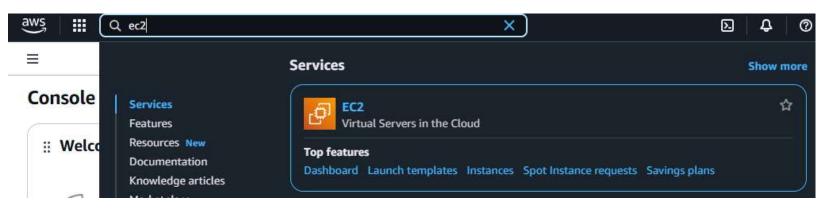
Route 53

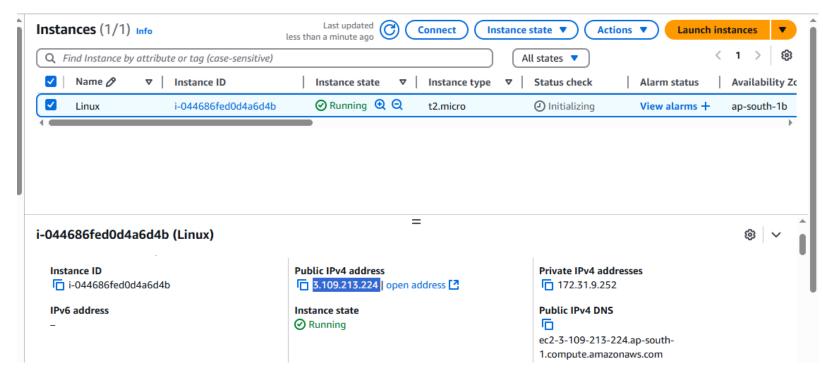


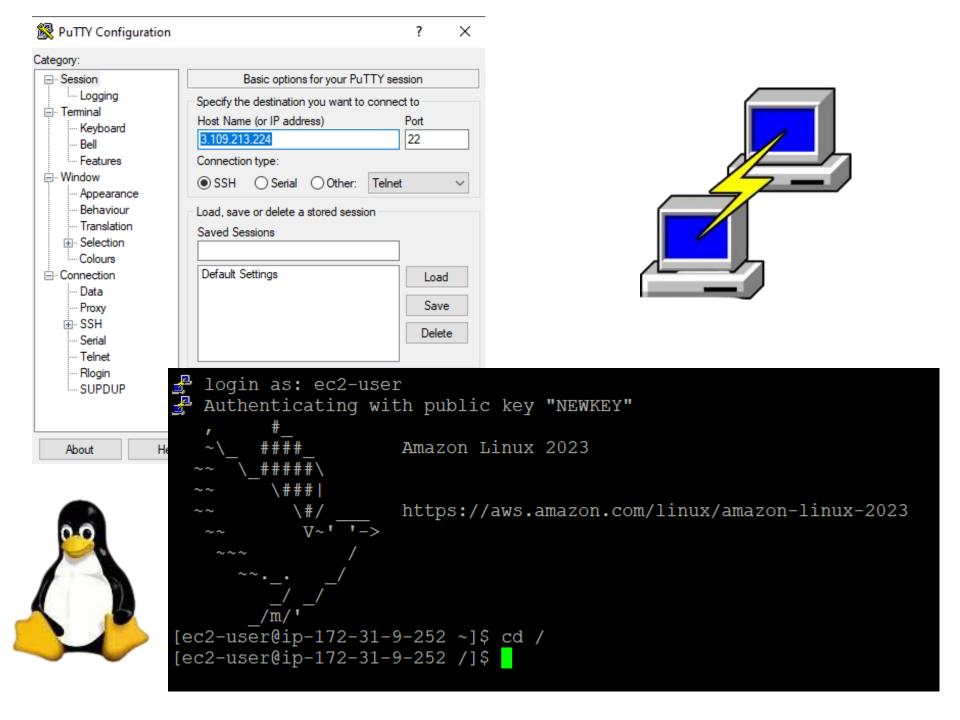


WORKING SAMPLE:









APACHE INSTALLATION:

```
### Protein-172-31-15-126/

[root@ip-172-31-15-126/] ### systemctl start httpd
[root@ip-172-31-15-126 /] ### systemctl status httpd

[not@ip-172-31-15-126 /] ### systemctl status httpd

| httpd.service - The Apache HTTP Server
| Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
| Active: active (running) since Sat 2025-03-15 07:47:55 UTC; 35s ago
| Docs: man:httpd.service(8)
| Main PID: 25872 (httpd)
| Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
| Tasks: 177 (limit: 1111)
| Memory: 12.9M
```

FILE PERMISSION:

```
account adm cache db empty ftp games kerberos lib lo
[root@ip-172-31-9-252 var]# cd www
[root@ip-172-31-9-252 www]# ls
cgi-bin html
[root@ip-172-31-9-252 www]# cd html
[root@ip-172-31-9-252 html]# chmod 777 /var/www/html
```



APACHE INSTALLATION

sudo – i — — — — — Changing as Root User

cd / — — Change Directory

Yum install httpd –y — — Installing Apache

systemctl start httpd — Starting Apache server

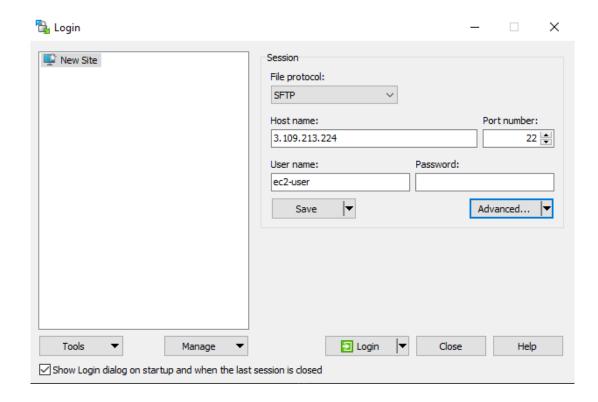
systemctl status httpd — Status check for apache

Chmod 777 /var/html/www — File Permission for apache directory

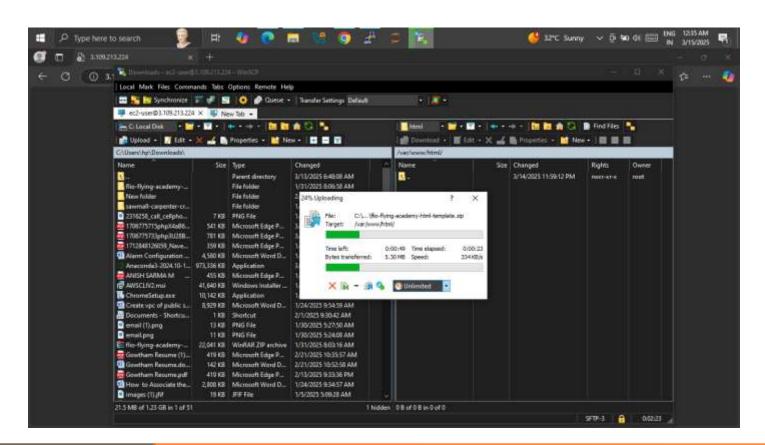


CONNECTING WINSCP

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



ASSESTS 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 -->
 k href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap"
    rel="stylesheet">
 k 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;
```



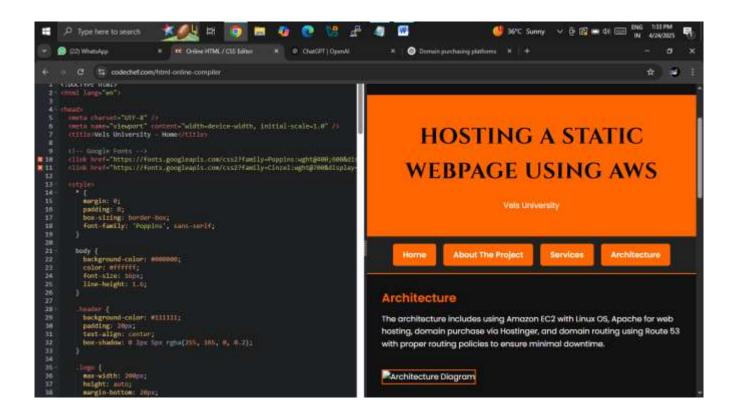
```
.content.active {
   display: block;
   animation: slideFade 1s ease;
  @keyframes slideFade {
   0% {
    opacity: 0;
    transform: translateY(20px);
   100% {
    opacity: 1;
    transform: translateY(0);
```



```
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;
```

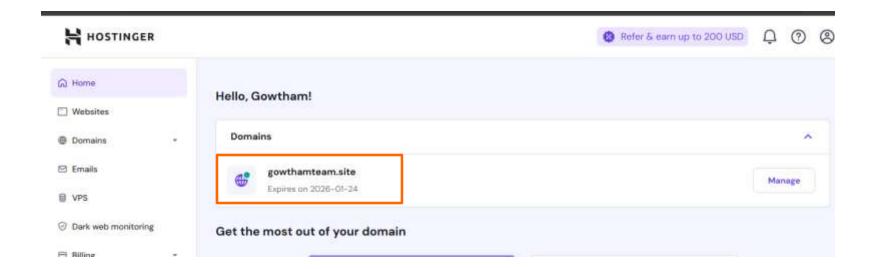


TEST PAGE:

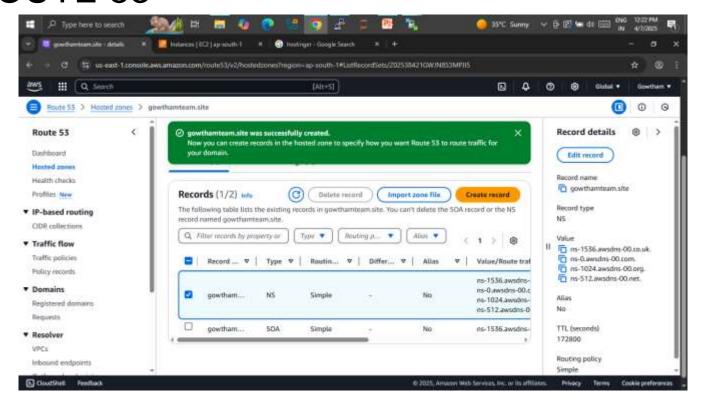


PRIVATE DOMN:

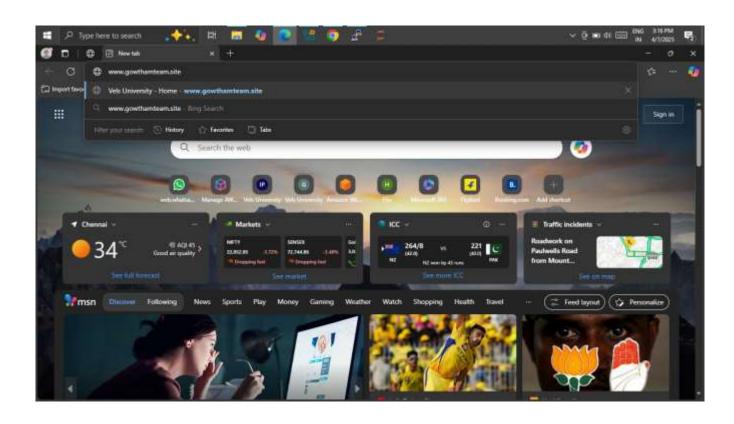
Purchasing Private Domain "gowthateam.site" from hostinger



CONFIGURING PRIVATE DOMAIN VIA ROUTE 53







OUTPUT:

