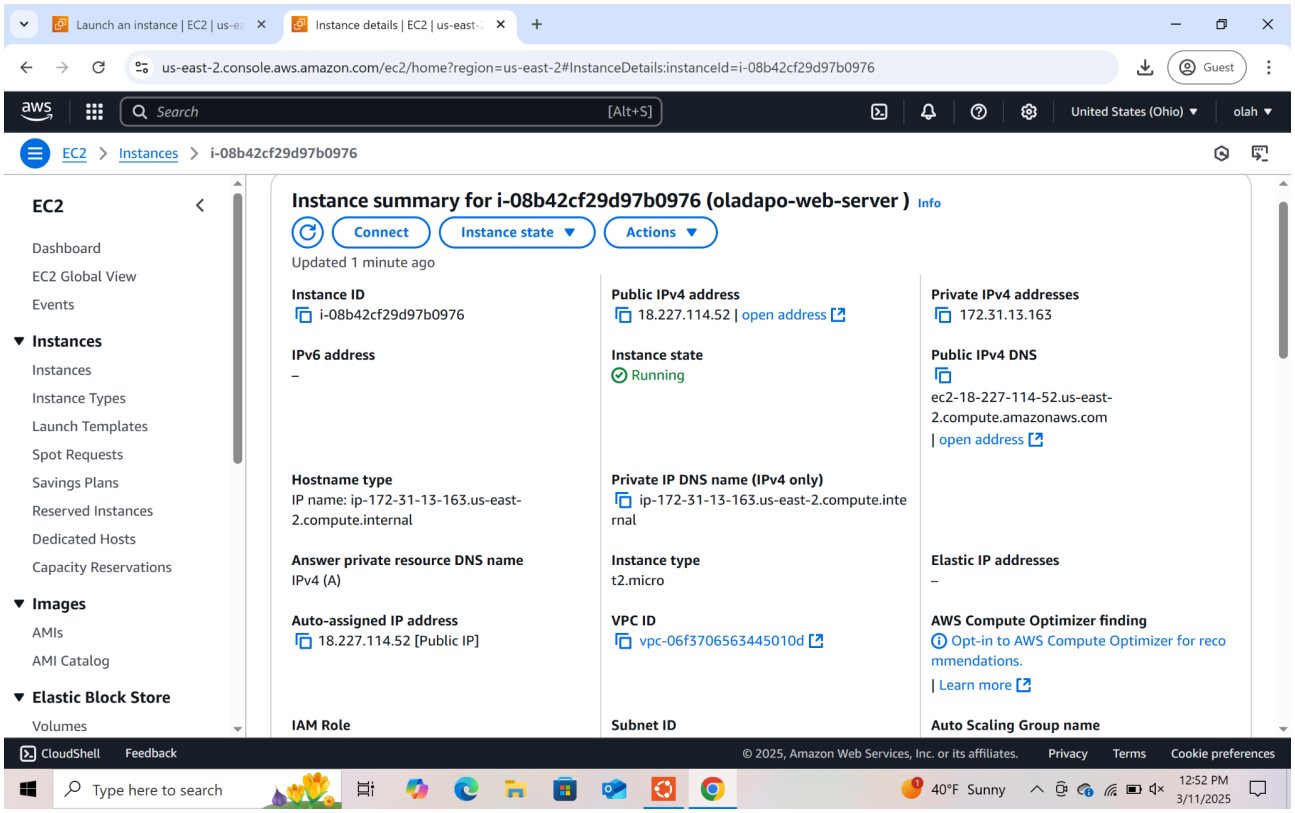
AWS EC2 Apache Web Server Project

Project Overview

In this hands-on project, I successfully launched an Amazon EC2 instance, connected securely via SSH, installed the Apache HTTP server, and deployed a custom HTML web page live to the internet. This project reflects my skills in cloud infrastructure, Linux system administration, and web server management.

EC2 Instance Running



SSH Connection to Instance

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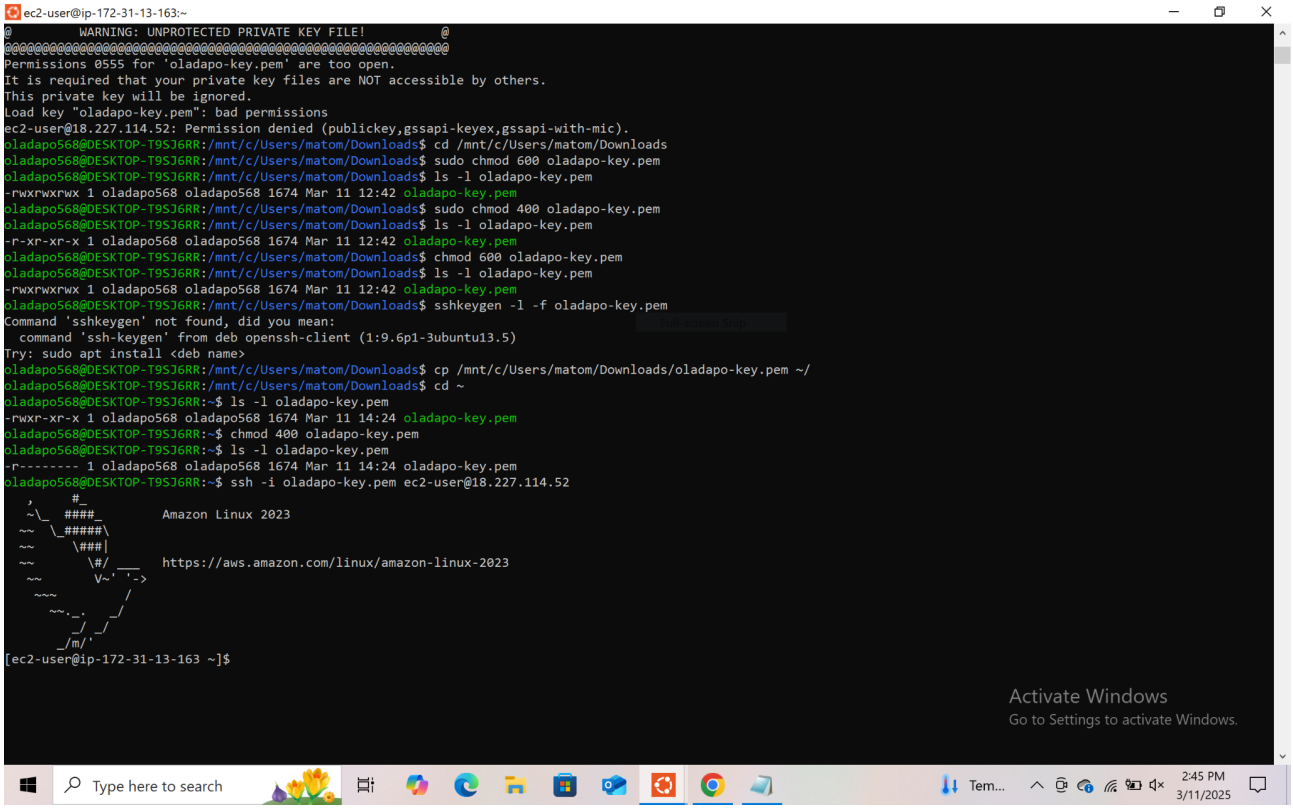
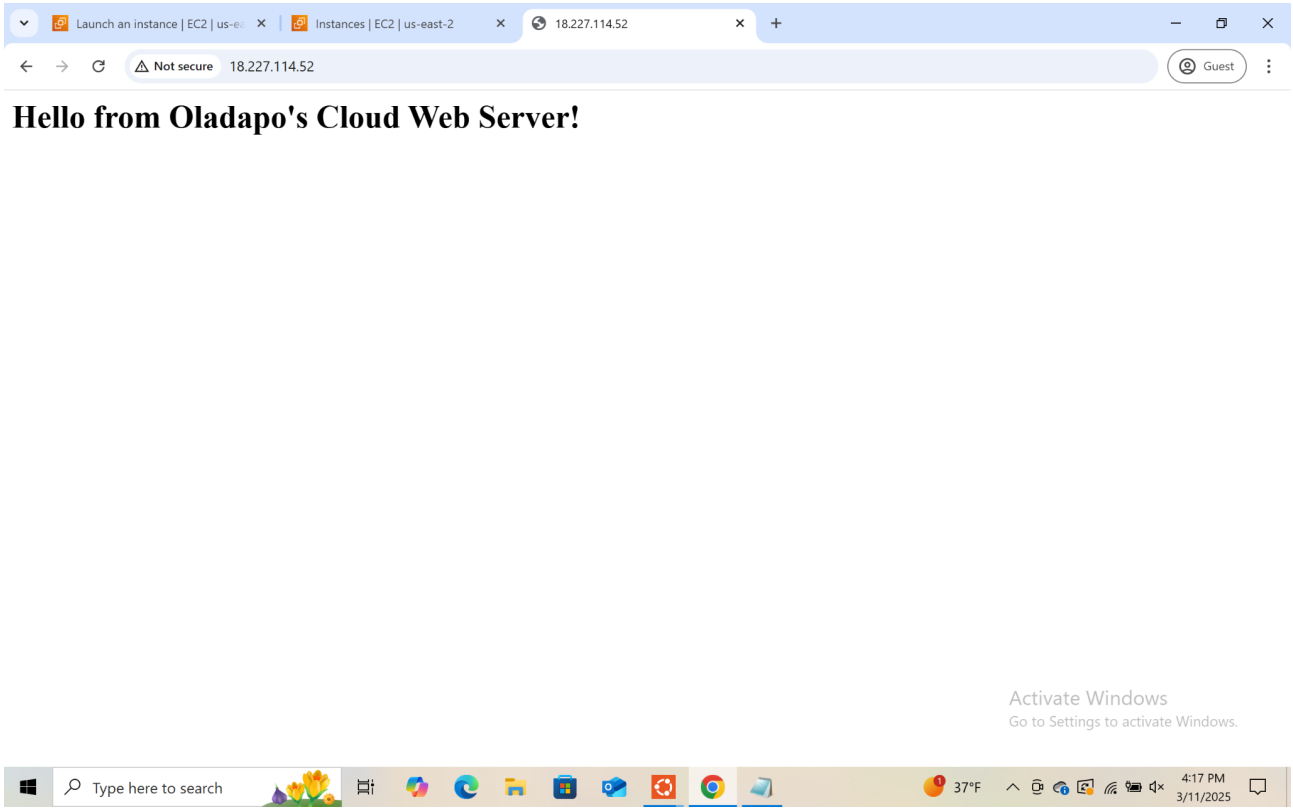


Web Server Running



Step 1: Launch EC2 Instance

- Region: us-east-2 (Ohio)

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- AMI: Amazon Linux 2023
- Instance type: t2.micro
- Created key pair: oladapo-key.pem
- Security Group: Allowed SSH (22) and HTTP (80)

Step 2: SSH Issues and Fixes

Problem 1: Permission Denied (publickey)

Solution:

chmod 400 oladapo-key.pem

Problem 2: PEM file not found in ~/Downloads

Solution:

cd /mnt/c/Users/YourUsername/Downloads

cp oladapo-key.pem ~/

chmod 400 ~/oladapo-key.pem

Step 3: Connect to EC2 Instance

ssh -i ~/oladapo-key.pem ec2-user@18.227.114.52

Step 4: Update the System

sudo yum update -y

Step 5: Install Apache Web Server

sudo yum install httpd -y

Step 6: Start and Enable Apache

sudo systemctl start httpd

sudo systemctl enable httpd

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Step 7: Deploy Custom Web Page

cd /var/www/html

sudo nano index.html

<h1>Hello from Oladapo's Cloud Web Server!</h1>

Step 8: View Live Web Page

Open: http://18.227.114.52

Skills Demonstrated

Skills Demonstrated:

- AWS EC2 provisioning and SSH configuration
- Linux terminal and permissions management
- Apache Web Server installation and management
- Troubleshooting SSH errors
- HTML deployment and hosting
- Network Security Group configuration

About Me

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