

AltSchool of Cloud Engineering Karatu '24 2nd Semester Exam Submission

Project Overview

This project demonstrates the setup of an Apache web server on an AWS EC2 instance to serve web content. Tasks include creating an EC2 Ubuntu instance, configuring the server, transferring files, and ensuring accessibility via a public IP.

Creating AWS EC2 Ubuntu Instance and Configuration

1. I created an AWS EC2 instance (Ubuntu 20.04 LTS).
2. Created a security group to control traffic and enable SSH into my instance via the terminal.

Public IP Address

Access the web content using the IPV4 of my instance at:

- **http://13.215.178.4/My_project**

Steps to Access the Web Server

1. Open a web browser.
2. Enter the following URL: http://13.215.178.4/My_project.

Screenshots

Below are the screenshots demonstrating the task completion:

Screenshots

1. Apache Server Running

```

Last login: Sun Dec 15 01:20:59 2024 from 223.24.158.89
ubuntu@ip-172-31-27-85:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: en
   Active: active (running) since Sun 2024-12-15 07:18:49 UTC; 4min 6s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 509 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC
 Main PID: 540 (apache2)
    Tasks: 55 (limit: 1130)
   Memory: 7.9M (peak: 8.1M)
      CPU: 46ms
   CGroup: /system.slice/apache2.service
           └─540 /usr/sbin/apache2 -k start
             └─541 /usr/sbin/apache2 -k start
               └─542 /usr/sbin/apache2 -k start

Dec 15 07:18:48 ip-172-31-27-85 systemd[1]: Starting apache2.service - The Apache
Dec 15 07:18:49 ip-172-31-27-85 systemd[1]: Started apache2.service - The Apache
lines 1-16/16 (END)...skipping...
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-12-15 07:18:49 UTC; 4min 6s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 509 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 540 (apache2)
    Tasks: 55 (limit: 1130)
   Memory: 7.9M (peak: 8.1M)
      CPU: 46ms
   CGroup: /system.slice/apache2.service
           └─540 /usr/sbin/apache2 -k start
             └─541 /usr/sbin/apache2 -k start
               └─542 /usr/sbin/apache2 -k start

Dec 15 07:18:48 ip-172-31-27-85 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Dec 15 07:18:49 ip-172-31-27-85 systemd[1]: Started apache2.service - The Apache HTTP Server.

```

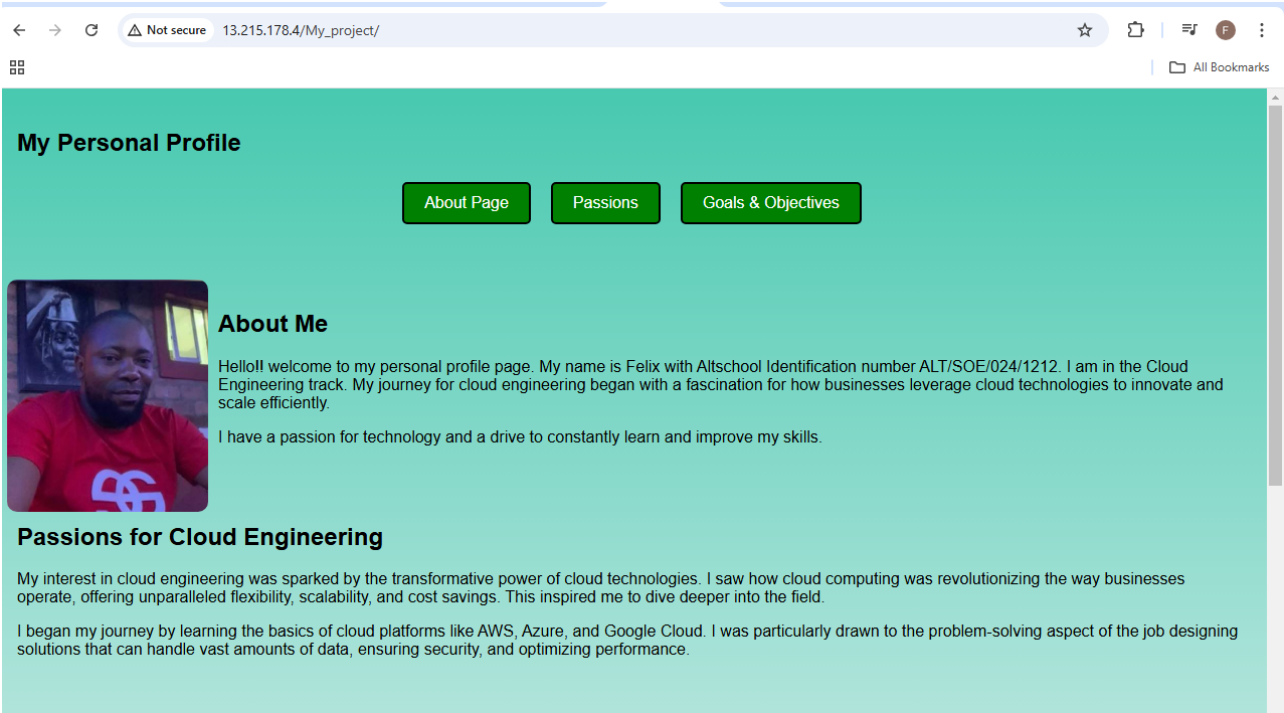
2. Files in /var/www/html/

```

Last login: Sun Dec 15 07:22:21 2024 from 49.237.202.90
ubuntu@ip-172-31-27-85:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-27-85:~$ cd /var/www/html
ubuntu@ip-172-31-27-85:/var/www/html$ ls -la
total 28
drwxr-xr-x 3 root  root  4096 Dec 15 01:22 .
drwxr-xr-x 3 root  root  4096 Dec 12 03:00 ..
drwxr-xr-x 2 ubuntu ubuntu 4096 Dec 14 12:56 My_project
-rw-r--r-- 1 root  root 10671 Dec 12 03:00 index.html.bak
-rw-r--r-- 1 root  root   615 Dec 14 06:11 index.nginx-debian.html
ubuntu@ip-172-31-27-85:/var/www/html$ |

```

3. Website in Browser



Thank you for reviewing this submission!