Static Website Deployment

Project Title - Static Website Hosting and Deployment using AWS EC2 Project Goal To successfully deploy, configure, and host a publicly accessible static website on a virtual server instance within the Amazon Web Services (AWS) cloud environment.

Objectives

- 1. Infrastructure Provisioning: Launch and configure an Amazon Elastic Compute Cloud (EC2) instance suitable for web hosting.
- 2. Web Server Installation & Setup: Install and start the Apache HTTP Server (httpd) on the EC2 instance's operating system (Amazon Linux 2023).
- 3. Content Deployment: Transfer and correctly position the website's static files (HTML, CSS, images) into the Apache web root directory.
- 4. Public Accessibility: Validate that the deployed website is publicly accessible via the EC2 instance's Public IP address.

Technologies Used

1. Cloud platform: AWS

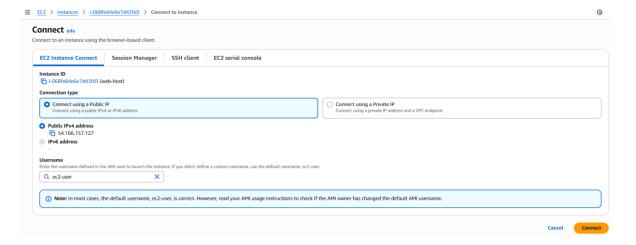
2. Compute Service: AWS EC23. Web server: Apache HTTPD

4. Operating System: Amazon Linux

Step 1: Launch EC2 Instance



Step 2: Connect with instance



Step 3: installation of the Apache HTTP Server (httpd)

Step 5: Download and extract the website template. Curl -L -o "Mentore.zip"

https://templatemo.com/download/templatemo_531_reflux

Step 6: Unzip the file

```
[root@ip-172-31-28-99 -|# unzip mentore.zip, mentore.zip.zip or mentore.zip.ZIP.
[root@ip-172-31-28-99 -|# unzip Mentore.zip
Archive: Mentore.zip
creating: templatemo 531 reflux/assets/
creating: templatemo 531 reflux/assets/creating: templatemo 531 reflux/assets/creating: templatemo 531 reflux/assets/css/
inflating: templatemo 531 reflux/assets/css/fontawesome.css
inflating: templatemo 531 reflux/assets/css/fontawesome.css
inflating: templatemo 531 reflux/assets/css/owl.css
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inflating: templatemo 531 reflux/assets/fonts/flexslider-icon.eot
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```

Step 7:

- 1) Moving the extracted template files to the Apache web root directory (/var/www/html/).
- 2) Starting the httpd service (systemetl start httpd).
- 3) Enabling the httpd service to start on boot (systemctl enable httpd). These commands complete the web server setup and content deployment.

```
[root@ip-172-31-28-59 ~] # mv templatemo_531_reflux/* /var/www/html
[root@ip-172-31-28-59 ~] # cd /var/www/html/
[root@ip-172-31-28-59 html] # ls
assets index.html prepros-6.config vendor
[root@ip-172-31-28-59 html] # [root@ip-172-31-28-59 html] # [root@ip-172-31-28-59 html] # systemctl start httpd
[root@ip-172-31-28-59 html] # systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service -> /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-28-59 html] # [root@ip-172-31-2
```

Step 8: Access the website in browser through public IP

