**Project Documentation**

**Hosting a Portfolio Website on AWS EC2 Using Apache and GitHub**

**Candidate:** Vamshi Prasad Goteti\ **Project Title:** Full Stack Portfolio Website Deployment on AWS\ **Technology Stack:** AWS EC2 (Amazon Linux 2023), Apache HTTP Server, GitHub, HTML/CSS/JS\ **Hosting**

**IP:** [http://44.203.4.136](http://44.203.4.136/)

# Overview

This project demonstrates the complete process of deploying a personal portfolio website on an Amazon EC2 instance using the AWS Free Tier. The site is sourced from a GitHub repository and hosted using Apache HTTP Server on an Amazon Linux 2023 AMI. This hands-on deployment showcases skills in Linux command line, Apache configuration, cloud provisioning, and secure server setup.

# AWS EC2 Instance Launch

* **AMI:** Amazon Linux 2023 (Free Tier Eligible)
* **Instance type:** t2.micro
* **Key pair:** PEM file used for SSH access
* **Security Group Configuration:**
* Inbound Rules:

HTTP (port 80) from 0.0.0.0/0

HTTPS (port 443) from 0.0.0.0/0 SSH (port 22) from My IP **Screenshot Reference:**

* Launch success confirmation
* Inbound rules configuration

# Server Setup Commands (Executed in EC2 Terminal)

# Connect to EC2 instance

ssh

-

i

"your-key.pem"

ec2-user@<EC2-Public-IP>

# Switch to root

sudo

su

-

# Update system

yum

update

-

y

# Install Apache Web Server

yum

install

-

y

httpd

# Start Apache and enable it to launch on boot

systemctl

start

httpd

systemctl

enable

httpd

# Git and Project Files

# Install Git (if needed)

yum

install

-

y

git

# Or download ZIP from GitHub

mkdir

myproject

&&

cd

myproject

wget

https://github.com/Vmshibharadwaj19/Aws/archive/refs/heads/main.zip

unzip

main.zip

cd

Aws-main

# Deploy Website

# Move website files to Apache root directory

mv

\*

/var/www/html/

# Go to web root and ensure correct index file name

cd

/var/www/html

mv

Index.html

index.html

# Restart Apache to apply changes

systemctl

restart

httpd

**Final Output:** Accessing [http://44.203.4.136](http://44.203.4.136/) shows the deployed portfolio with CV download, tech stack, and contact sections.

**5. Screenshots Included:**

1.EC2 Instance creation confirmationA screenshot of a computer

AI-generated content may be incorrect.

Security group with open HTTP/HTTPS

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

3.Deploy

A screenshot of a computer

AI-generated content may be incorrect.

**Skills Demonstrated:**

* EC2 provisioning & Linux terminal usage
* Apache web server configuration
* GitHub to server deployment
* File system navigation, permissions, and process control
* Hosting static websites on cloud platforms

**Link to Website:**

[http://44.203.4.136](http://44.203.4.136/) *(live preview)*

**GitHub Repository:**

<https://github.com/Vmshibharadwaj19/Aws>

**Project Owner:**\ Vamshi Prasad Goteti\ MSc Computing, University of East London\ Contact: vamshibharadwaj19@gmail.com