

Placement Empowerment Program Cloud Computing and DevOps Centre

Host a Static Website on a Cloud VMInstall Apache/Nginx on your cloud VM and host a simple HTML website.



Name: Vishali V

Department : CSE



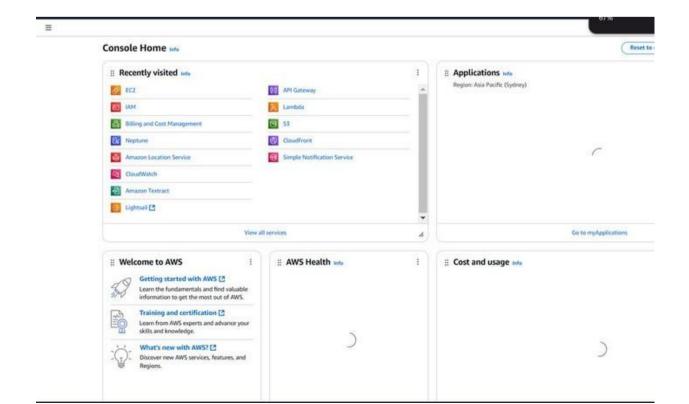
Introduction

Hosting a static website on a cloud virtual machine (VM) provides a scalable and costeffective solution for deploying simple web pages. AWS offers flexible options for setting up a web server using Apache or Nginx on an EC2 instance. This guide provides step-by-step instructions on configuring an EC2 instance to host a static HTML website using either Apache or Nginx.

Steps to Host a Static Website in AWS

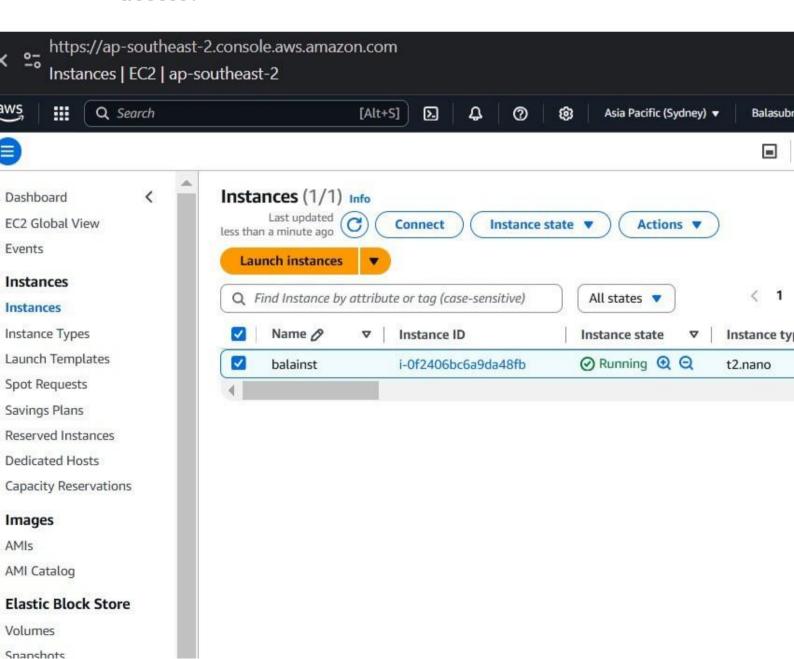
1. Launch an EC2 Instance

Log in to AWS Console:



Create a New EC2 Instance:

- Click on Launch Instance.
- Choose an Amazon Machine Image (AMI) (e.g., Amazon Linux, Ubuntu).
- Select an appropriate instance type (e.g., t2.micro for free tier users).
- Configure instance details and enable HTTP/HTTPS traffic under Security Group settings.
- Launch the instance and download the key pair for SSH access.



- 2. Connect to the Windows Instance and Install Apache
 - Connect to the EC2 Windows Instance:
 - Open Remote Desktop Connection (RDP) on your local machine.
 - Use the downloaded key pair to retrieve the Administrator password from the EC2 console.
 - Enter the public IP of your instance and login with Administrator credentials.

Install Apache Web Server:

- Download the latest Apache HTTP Server for Windows from the Apache Lounge.
- Extract the Apache files to C:\Apache24 (or your preferred location).
- Open Command Prompt as Administrator and navigate to the Apache bin directory:

C:\Users\ASUS> cd C:\Apache24\bin

PS C:\Apache24\bin> httpd -k install

PS C:\Apache24\bin> httpd -k start

3. Deploy a Static Website

Navigate to Apache Web Directory:

- Open File Explorer and go to C:\Apache24\htdocs.
- Upload HTML Files:
- Create an index.html file inside C:\Apache24\htdocs and add the following content:

```
ODOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <!DOCTYPE html>
   <html lang="en">
   <head>
       <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>My Apache Hosted Website</title>
        <style>
           body {
               text-align: center;
               background-color: #f0f8ff;
               font-family: Arial, sans-serif;
                padding: 50px;
            h1 {
                color: #ff4500:
                font-size: 50px;
                text-shadow: 2px 2px 5px  rgba(0, 0, 0, 0.3);
                font-size: 24px;
                color: #008000;
                font-weight: bold;
       </style>
   </head>
    <body>
        <h1>BALASUBRAMANIAN.V</h1>
        Hosted a Sample Website using Apache
   </body>
    </html>
```

- Configure Apache to Serve Your Website:
- Open C:\Apache24\conf\httpd.conf using a text editor.
- Locate the DocumentRoot directive and ensure it points to C:\Apache24\htdocs.
- Restart Apache using:

PS C:\Apache24\bin> httpd -k restart

- 4. Configure Security Group and Test Website Modify Security Group: Allow
- inbound HTTP (port 80) and HTTPS (port
- 443) traffic to access the website. Test Your Website: Open a web browser and enter your EC2 instance's public IP
- address.

•

• If configured correctly, your static website should load successfully.

Conclusion: Hosting a static website on an AWS EC2 Windows instance using Apache is a straightforward process. By following these steps, you can deploy a scalable web server minutes. Regularly your aprovete tandensueveureptimal performance and security.