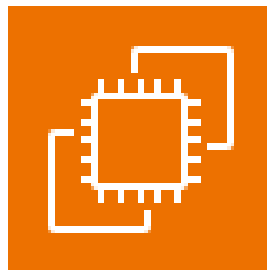# AWS Solution Architect Training with
AWS Cloud Practitioner Global Certification Training

Trainer: Aravindraj.G- Nminds Academy

Configure SFTP to Linux Web Server in AWS

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Objective

EC2 (Elastic Compute Cloud) is a core service provided by Amazon Web Services (AWS) that enables users to rent virtual servers in the cloud to run applications, store data, or handle computational workloads.

Use Cases for EC2 Linux Instances:

- Web and Application Hosting: Run Apache web servers or other Linux-based web applications in the cloud.

- Database Servers: Host SQL Server databases with EC2 Linux instances, using SSH or EC2 for more control.

- Remote Desktop Applications: Set up SSH (Remote Desktop Services) for remote access to Linux desktops in the cloud.

- Development and Testing: Create development environments with linux OS to test php,MySql or other Linux-based applications.

SFTP- Secure File Transfer Protocol

SFTP (Secure File Transfer Protocol) is a secure network protocol that allows users to transfer files over a secure, encrypted connection. It is a more secure alternative to FTP (File Transfer Protocol) and is commonly used to upload, download, and manage files on remote servers.
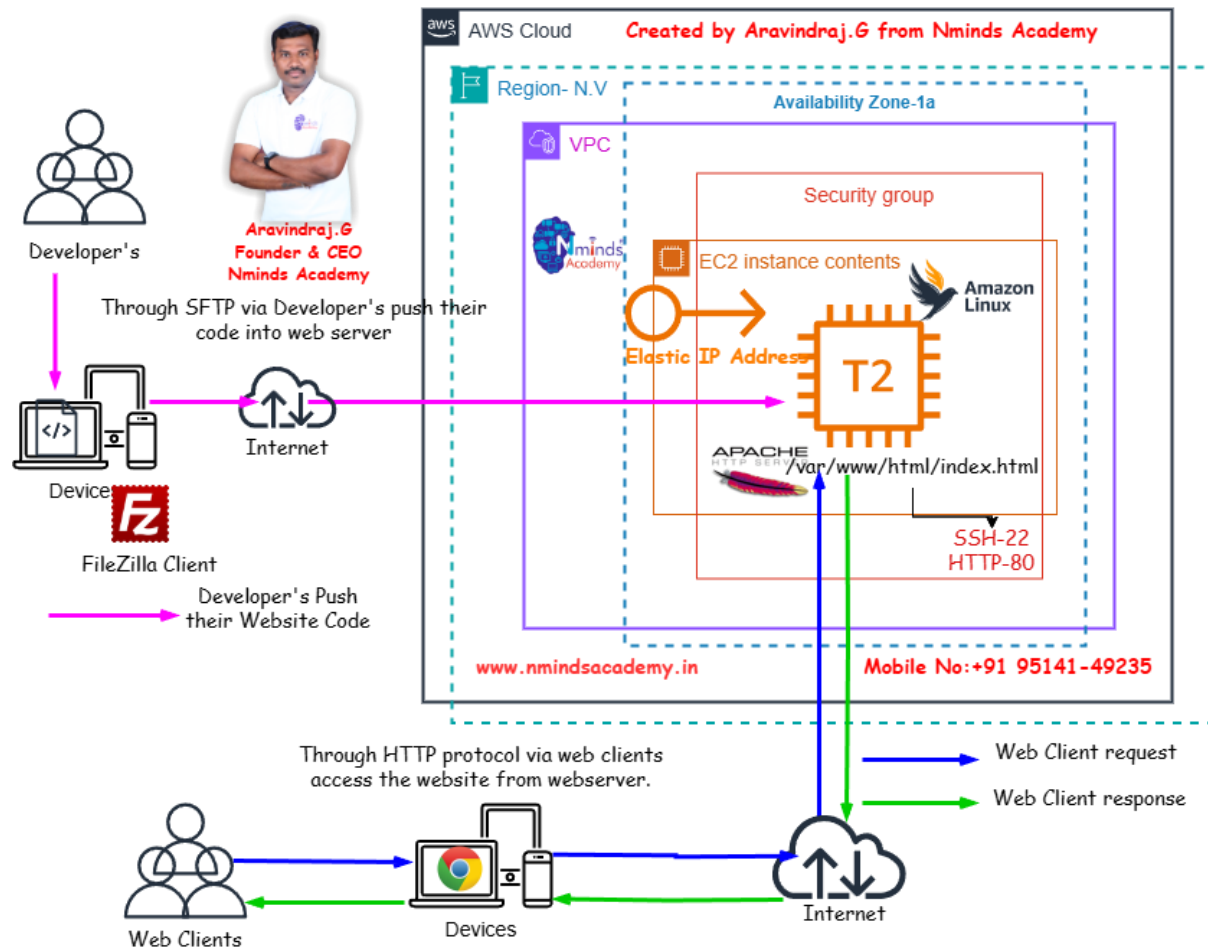
Here are the key uses and advantages of SFTP:

1. File Transfer: SFTP allows secure transfer of files between a local and a remote computer over a network. It ensures that the data is encrypted during transmission, protecting it from eavesdropping or tampering.

2. File Management: Besides transferring files, SFTP also allows users to perform file management tasks such as renaming, deleting, and moving files on the remote server.

3. Secure Authentication: SFTP uses SSH (Secure Shell) for authentication, which provides a stronger level of security compared to FTP's traditional username/password system. It often supports public key authentication, adding an extra layer of security.

4. Encryption: The main advantage of SFTP over FTP is encryption. All data sent over SFTP is encrypted, ensuring that sensitive information (like passwords and files) is protected during transmission.

5. Firewall-Friendly: SFTP operates over a single port (usually port 22), making it easier to use behind firewalls and NAT (Network Address Translation) devices compared to FTP, which uses multiple ports.
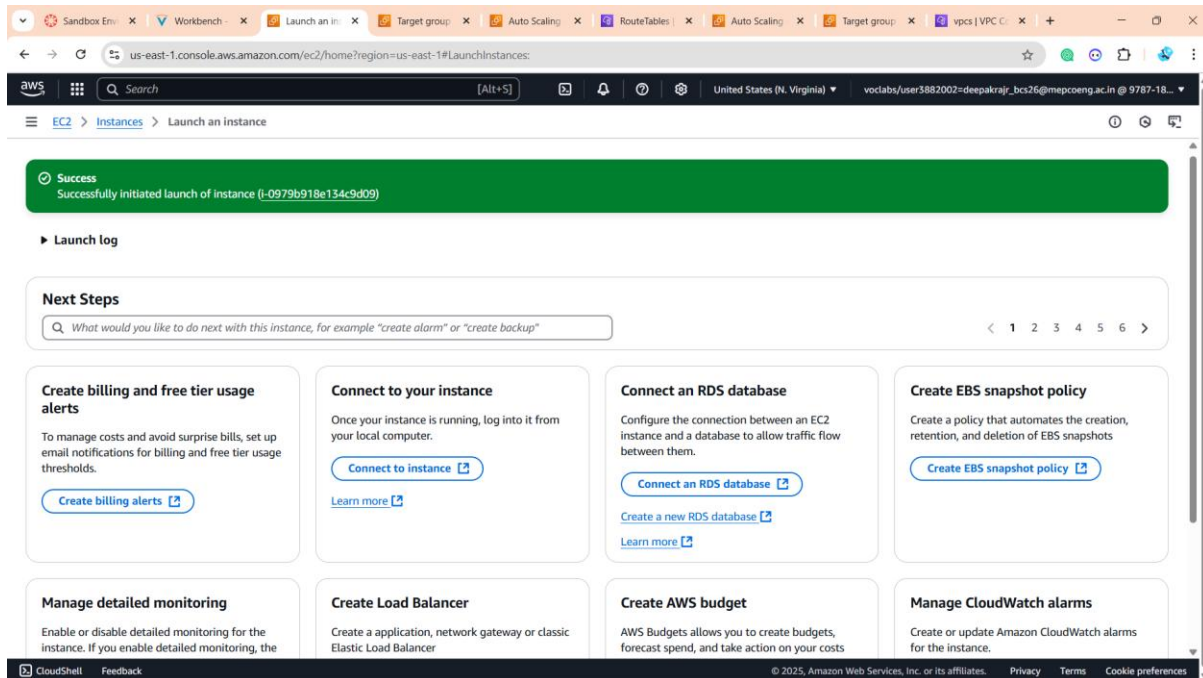
Topology

How to Configure Developer's push their website code by using SFTP Protocol
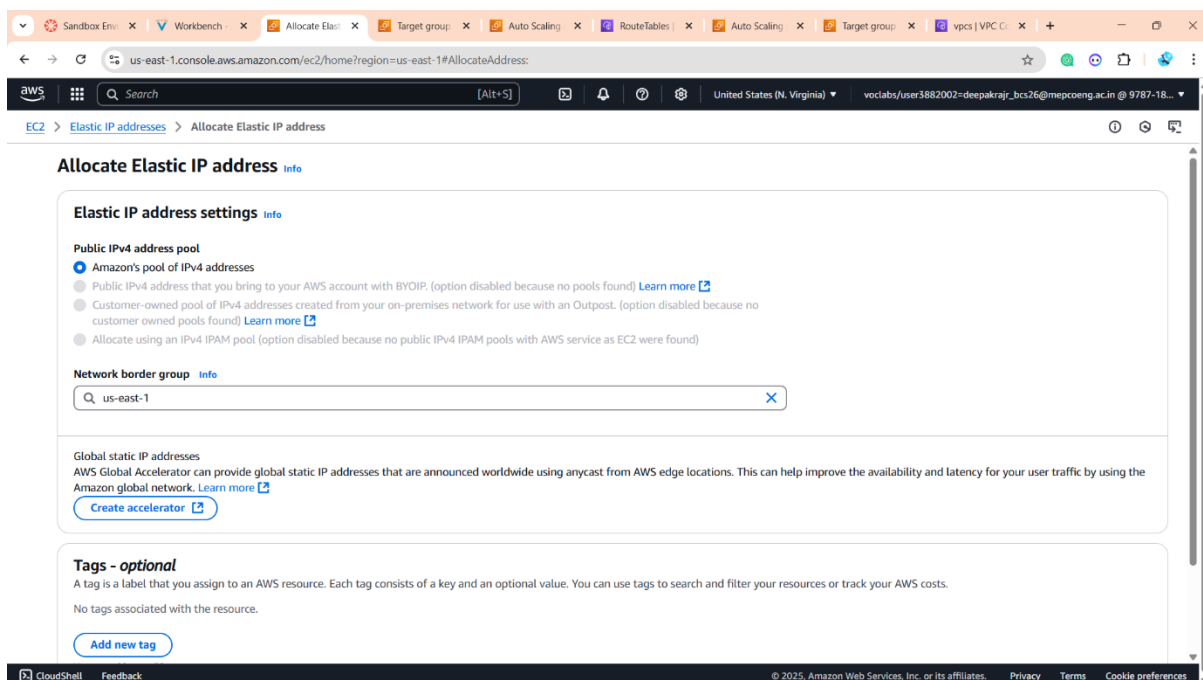in Linux Server with AWS EC2 with Elastic IP Address

aws AWS Cloud — Created by Aravindraj.G from Nminds Academy

Region- N.V

Availability Zone-1a

VPC

Security group

EC2 instance contents

Amazon Linux

Elastic IP Address

T2

APACHE HTTP SERV /var/www/html/index.html

SSH-22
HTTP-80

Developer's

Aravindraj.G
Founder & CEO
Nminds Academy

Through SFTP via Developer's push their
code into web server

Devices

FileZilla Client

Developer's Push
their Website Code

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Through HTTP protocol via web clients
access the website from webserver.

Web Client request

Web Client response

Web Clients

Devices

Internet

Execution Tasks:

Step1: Launch an EC2 Linux Instance

Step2: Associate an Elastic IP

Step3: Associate with Instance
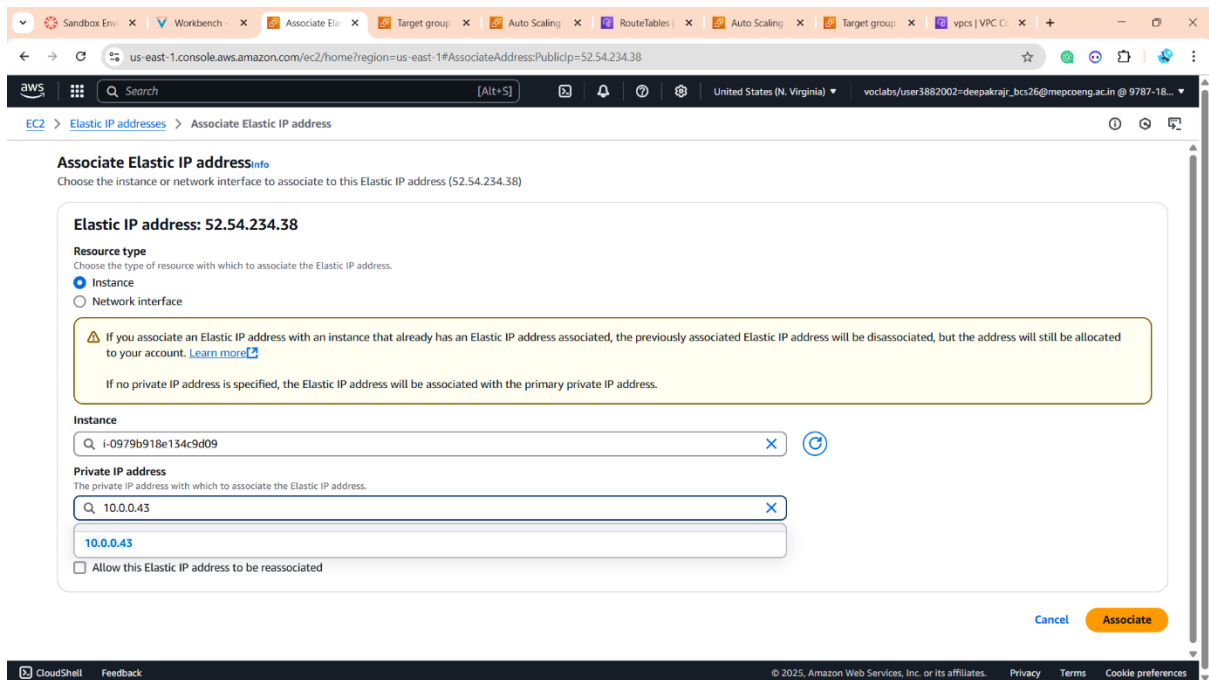
Step4: Connect to the Instance and Configure Apache
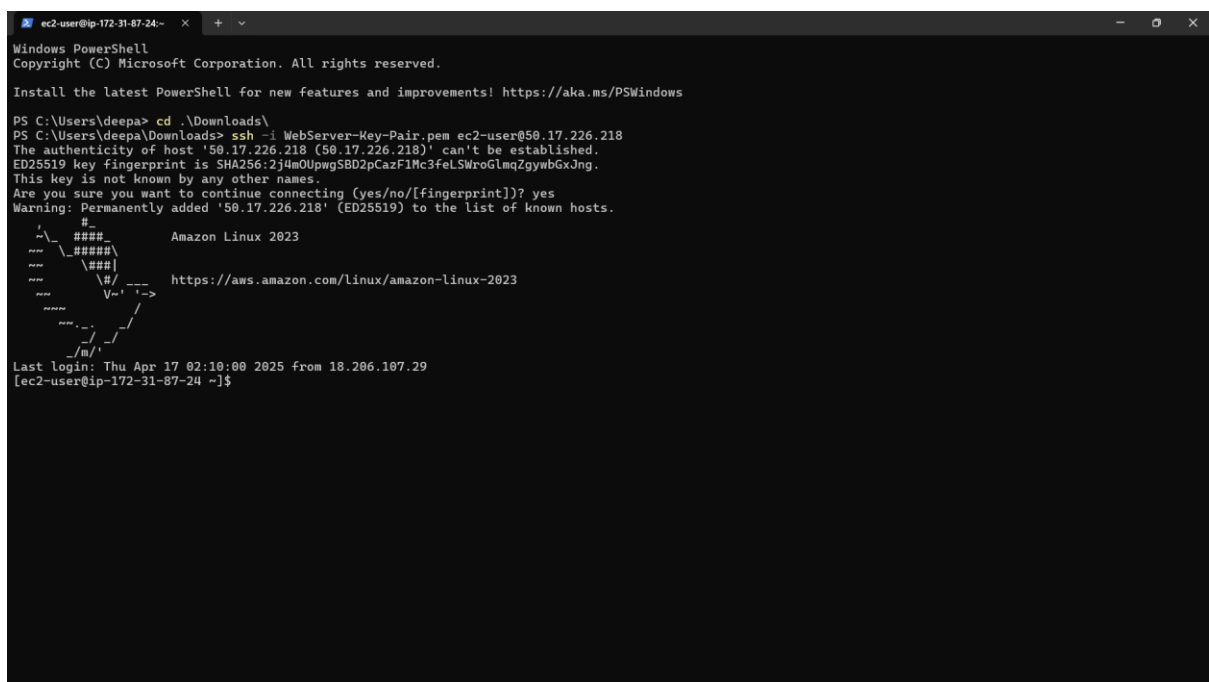
Step5: Create a Sample Web Page

Step6: From a browser, navigate to public IP of instance to see the webpage.
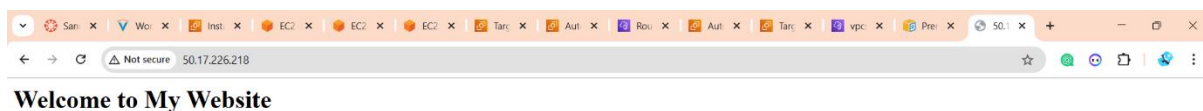
Step7: Configure SFTP Connection

Step8: Upload Website Code

Step9: Install FileZilla on Developer's Device:

Welcome to My Website
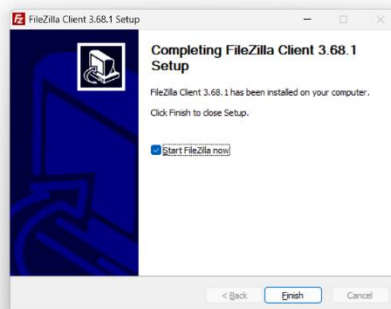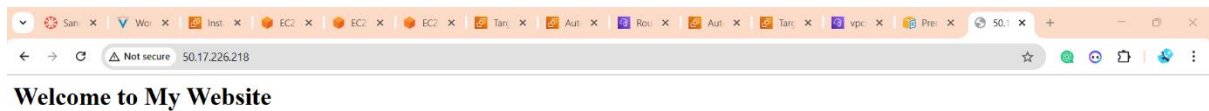
Step10: Test Web Client Access