AWS Lab 6

Configure an EC2 Linux Instance as Apache Web Server

Overview of the Lab

In this lab you will learn how to configure an EC2 linux instance as an Apache web server.

Web Server

Server which serves website or web pages

Website

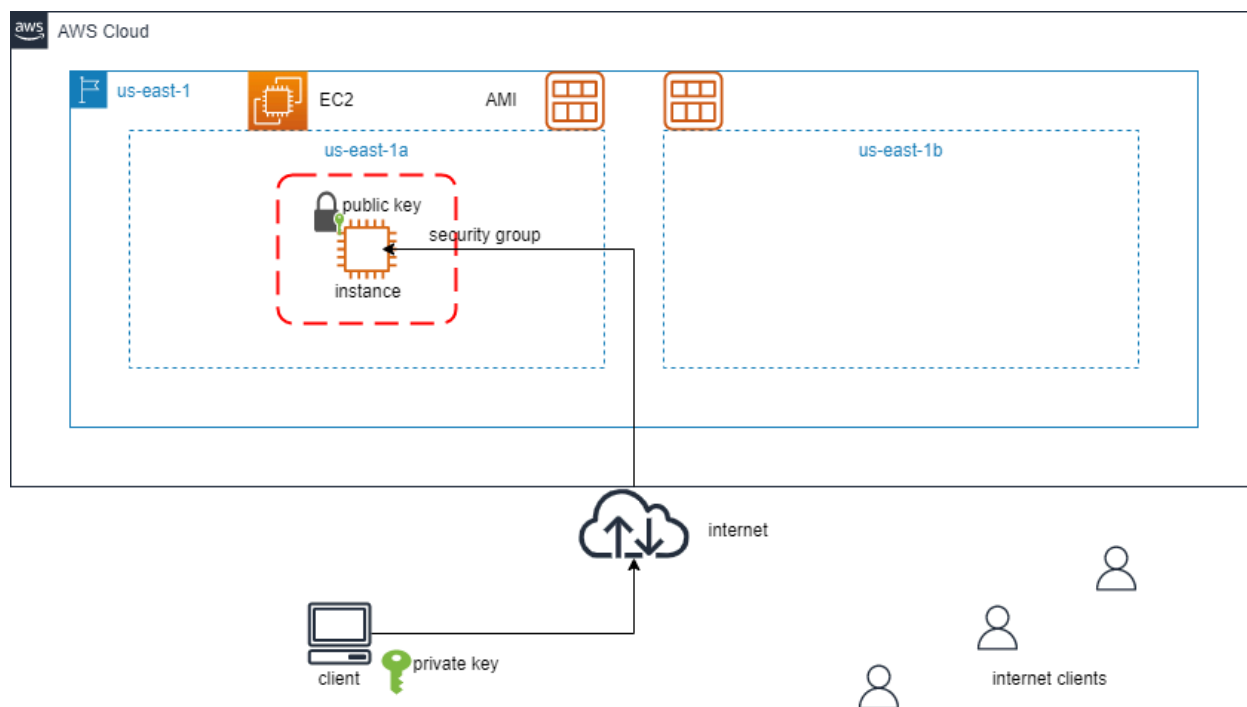It is a code written in languages like html, php.

Apache

It is a web server software developed by Apache Software Foundation

EC2 Instance Connect

It is a browser based CLI login for Linux servers (not all Linux OS are supported)

Architecture of the Lab

Step by Step Lab

Launching linux instance and connecting to it

1. Login to aws cloud account via the aws management console

2. Select us-east-1 region (you can choose any region of your choice)

3. Search for EC2 and in EC2 management console, launch instance

    3.1. Name and tag – linux-webserver

    3.2. Application and OS Images – Red Hat

    3.3. Instance type - t2.micro

      3.4.   Key pair – select the existing keypair

      3.5.   Edit Network settings

          a. Subnet – subnet in us-east-1a (even no preference is fine)

          b. Firewall – select existing security group

4.   Number of instances - 1

     (Leave all other settings as default and launch instance)

5.   Once the instance is launched

     5.1   Wait for instance state – running

Allow SSH in security group inbound

1.   Select instance - Select security - Select security group
2.   Edit inbound rules
3.   Click add rule - type (SSH) and source (anywhere IPv4)
4.   Save Rule

Connecting to remote linux instance via powershell

1.   Select instance - Connect - Select SSH Client
2.   Copy example command
3.   Open powershell and change working directory to the folder where private key is and use ssh command to login to instance

Configure linux instance as apache (In linux server)

1.   Install apache and git software
        sudo dnf install httpd git -y
2.   Start and Enable service
        sudo systemctl start httpd && sudo systemctl enable httpd

3.   Place website

sudo git clone https://github.com/jerrish/site_particles.git /var/www/html

Try Accessing Webpage -

Clean Up Step

1.   Select the instance and terminate it