Ec2 - Web-Server - LAB

#We will understand how to deploy and simple VM
#Then, how to connect to this VM
#Once connected, we will turn this normal vm into a Web-Server using Apache httpd software

- create a new linux vm
- Os - AMI - Amazon Linux
- Instance Type - t2.micro
- Key-pair - create new key
- Network - Default
- Security - SSH - 22 / HTTP
- Volume - Default - 8Gb
- Advanced Details - None
- Summary - 1
- Launch

#Once the instance is launched, connect to the instance using Direct-Connect Or Using SSH

Direct-Connect

- Select Ec2
- Go to connect
- Ec2 Instance Connect
- Connect

#This will open a new-connection request on the browser

SSH - connect

- Select ec2
- Go to connect
- Go to ssh
- Copy ssh address
- Open terminal on local machine
- Navigate to the pem-file

- Paste and connect ssh address

#This will open the connection via secure shell protocol

Web-Server

- A web server is a computer system or software that delivers web pages and other content to users over the internet via HTTP. It stores, processes, and delivers web content, such as text, images, and videos, to users' browsers when they request a website.

Role:

- Web servers act as the foundation for internet services, hosting websites and handling user requests.

Function:

- When a user enters a website address in their browser, the browser sends a request to the web server.

Processing:

- The web server then processes the request, retrieves the requested content (like HTML files, images, etc.), and sends it back to the user's browser.

Types:

- Web servers can be either hardware or software, or a combination of both. Common examples include Apache, Nginx, and Microsoft IIS.

Dynamic Content:

- Some web servers can generate dynamic content, meaning they can interact with databases or other data sources to create personalized or up-to-date content.

Hosting:

- A web server is essentially a computer that hosts one or more websites, making the web pages and associated files accessible to users.

LAB

#Install and config apache http to setup web-server
#Config port - 80 to expose httpd

#Install httpd
- Connect to ec2
- sudo yum -y install httpd

#Start and Enable httpd
- sudo systemctl start httpd   #This will start the service
- sudo systemctl enable httpd   #To restart the service automatically

#We can access test page on publicip:80
#To add content to the httpd test page
- Go to /var/www/html/
- cd /var/www/html/
- Create a simple index.html file