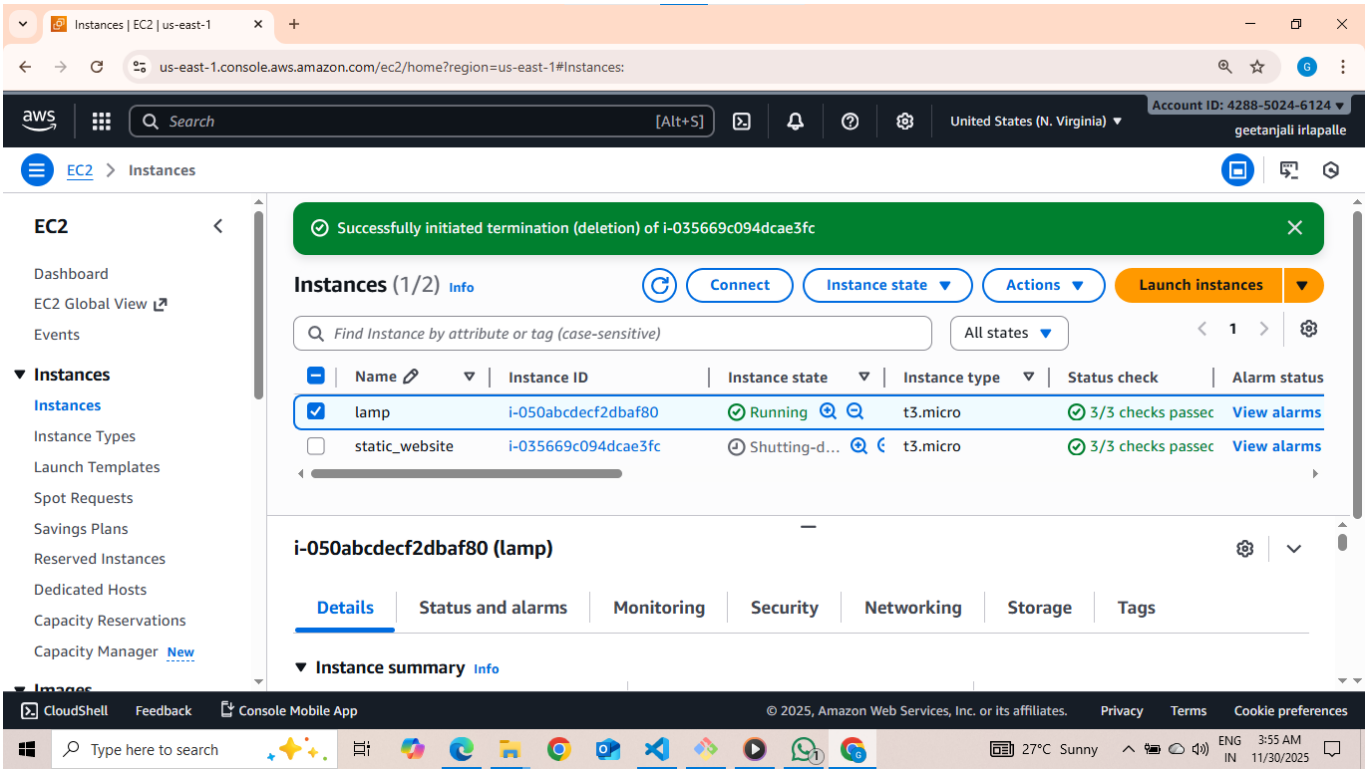
Deploying Dynamic Webserver using LAMP in Amazon-Linux

Introduction:

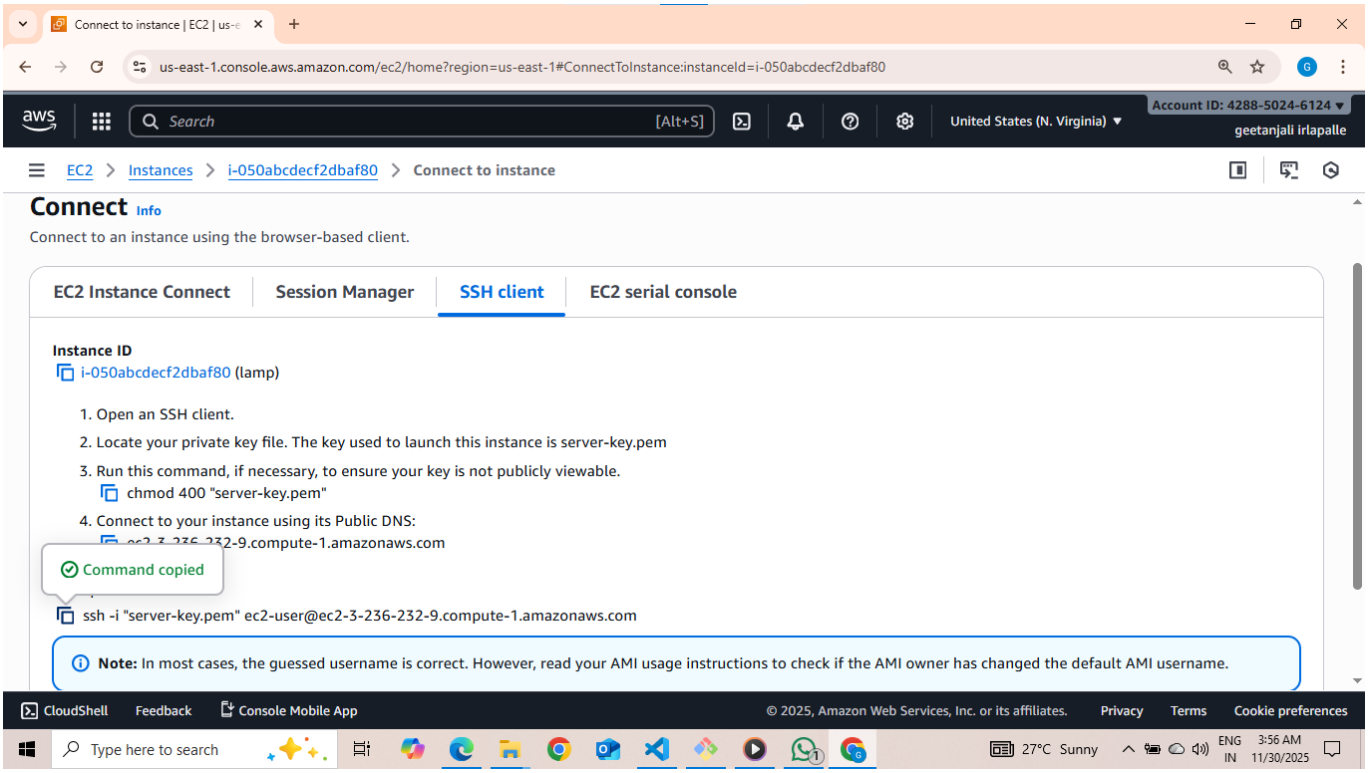
This project display how to set up and deploy a dynamic web server using the LAMP (Linux, Apache, MySQL, PHP) in Amazon Linux. The LAMP stack is one of the most widely used open-source solutions for hosting dynamic websites and web application. Linux – Operating system (Ubuntu / Amazon- linux)
 Apache – Web server to serve Http request MySQL / Mariadb – Database server to store application data
 PHP – Server-side scripting language for dynamic content

Step of deployment

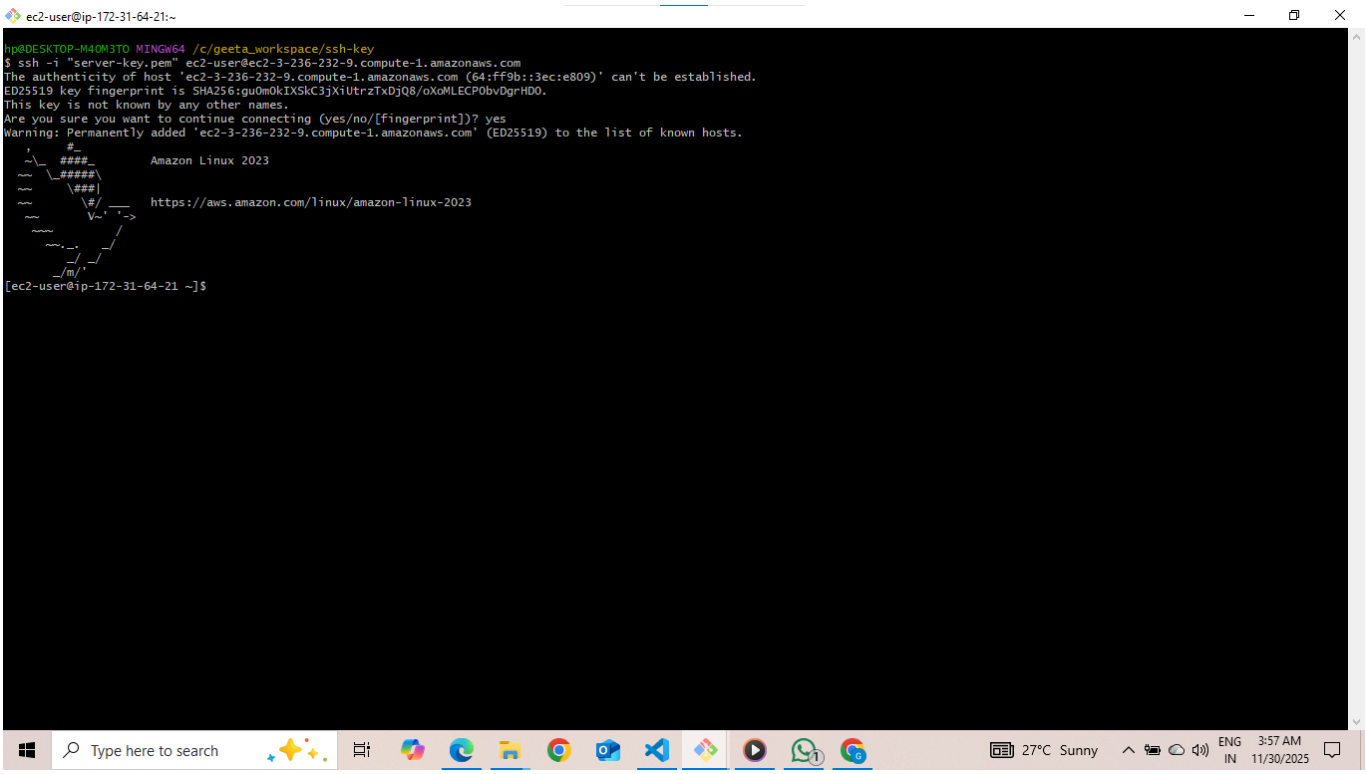
Step1: Linux ec2 instance



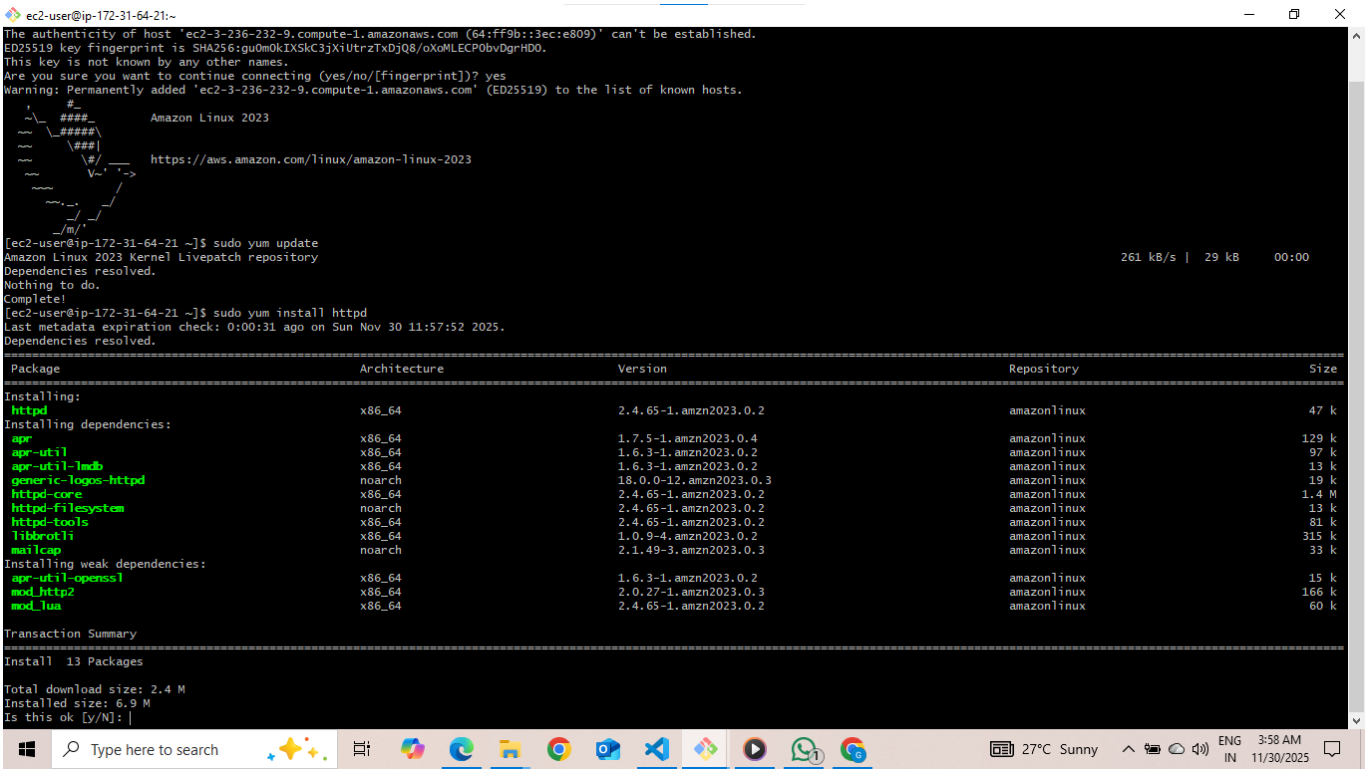
Step2 : Connect the ec2 instances and updates the packages



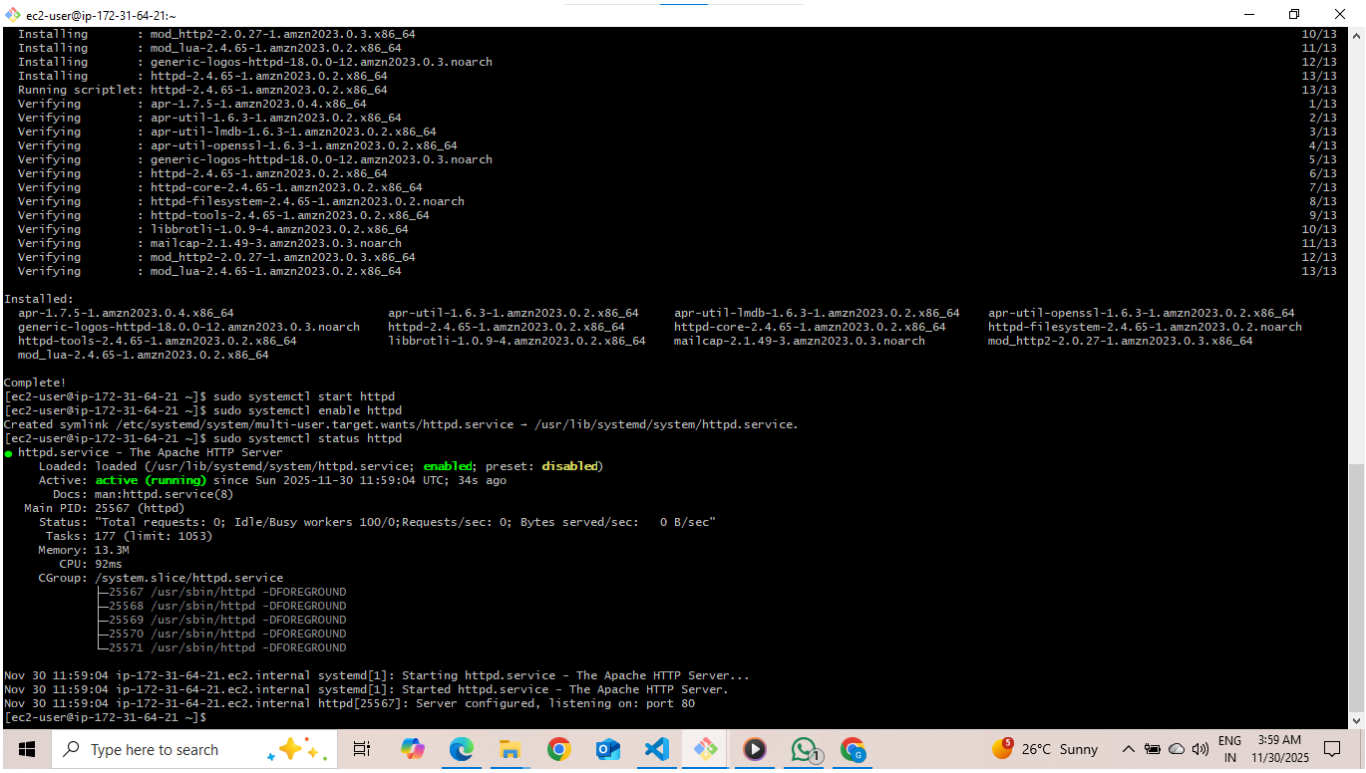
Step3: Install package manager httpd-



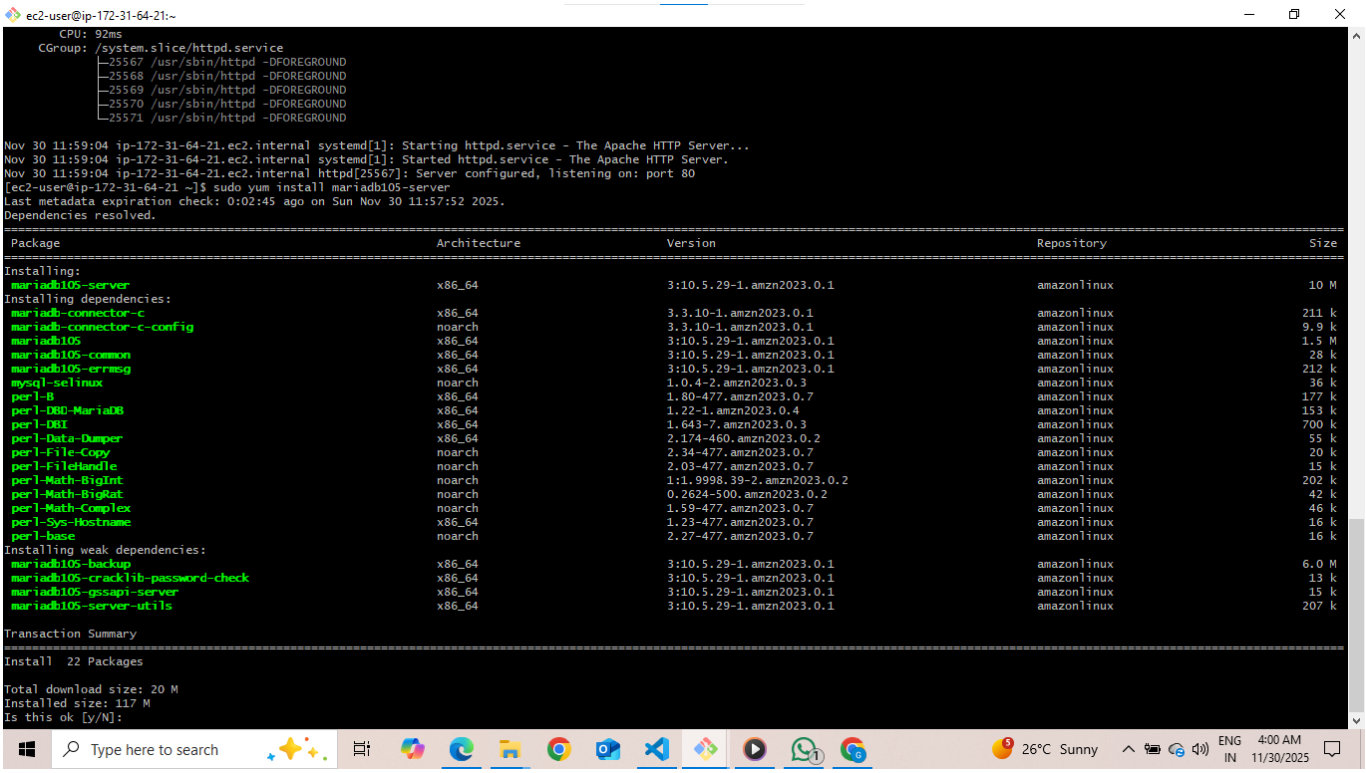
Step4: Check the instances Start ,enable, status httpd instances



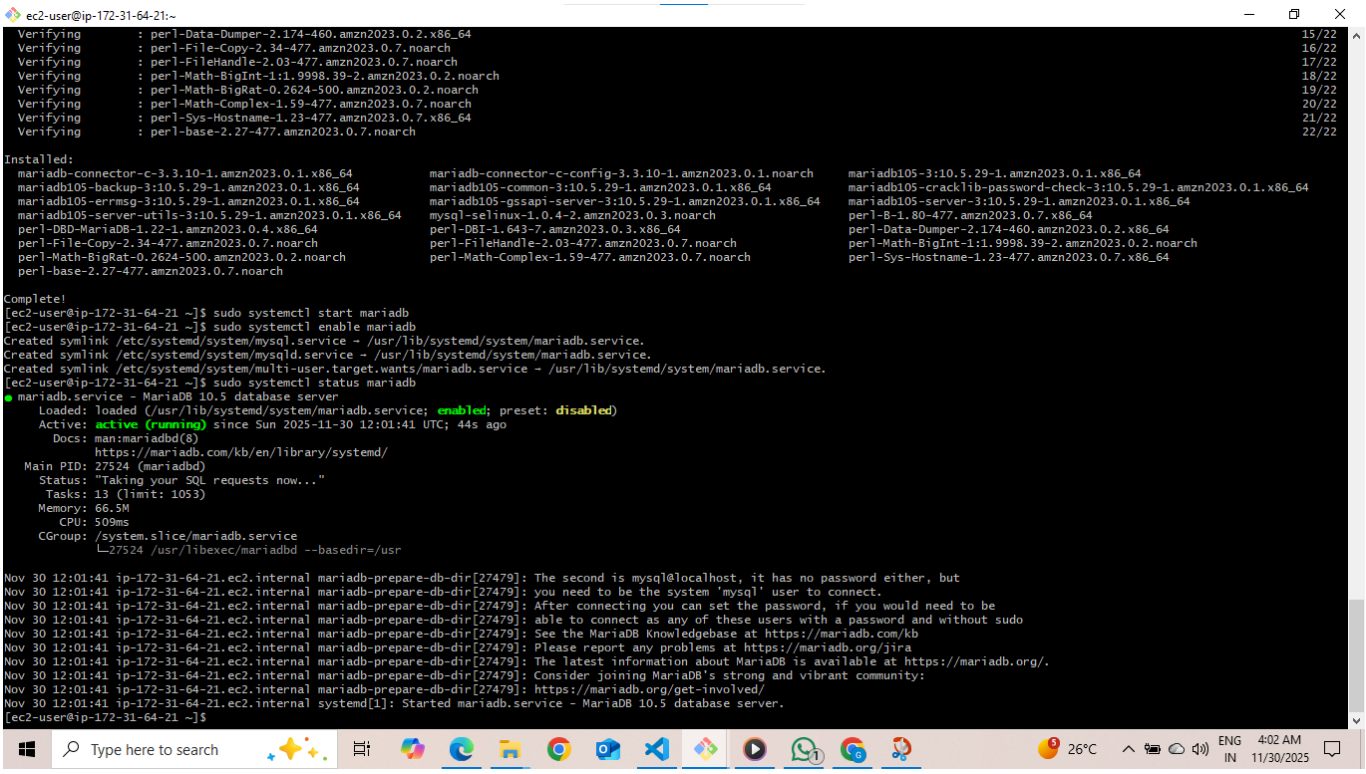
Step5: Install the mariadb105-server database



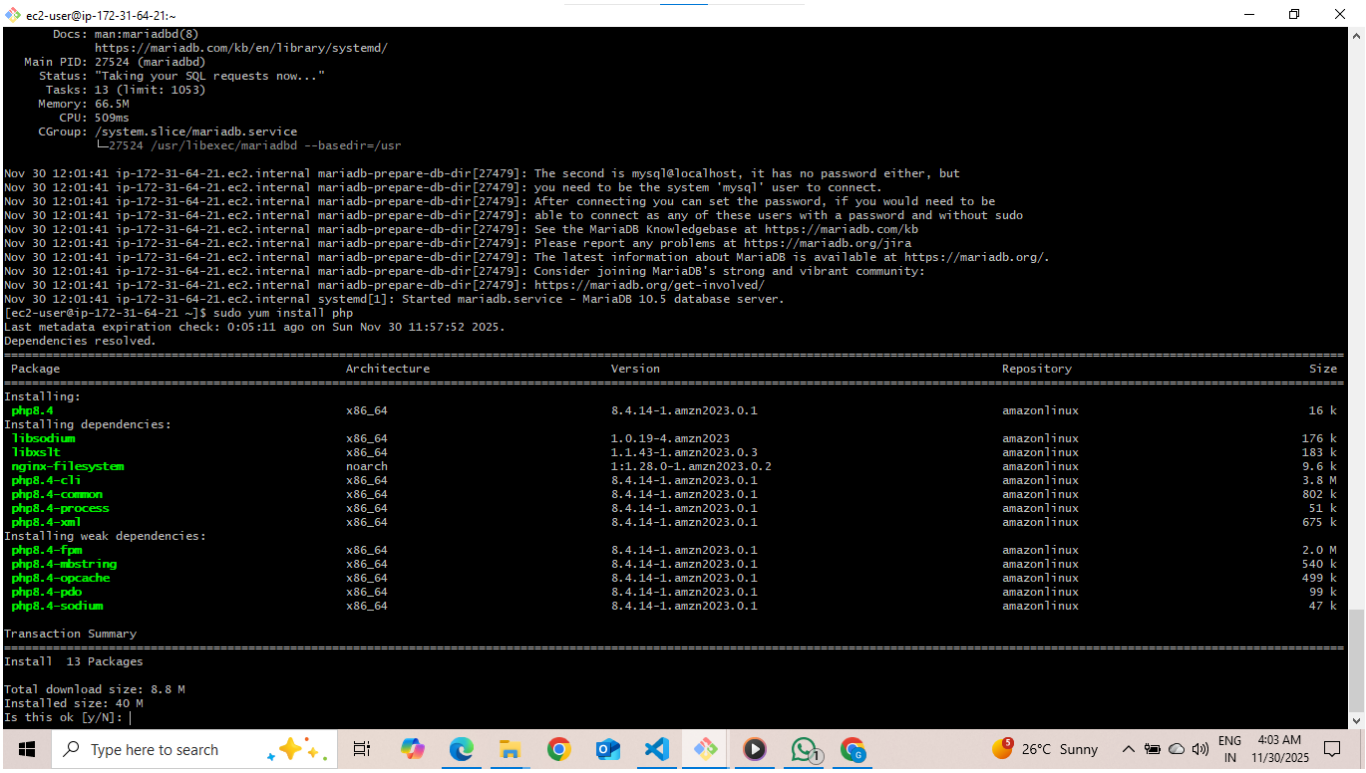
Step6: Check the mariadb 105-server start ,enable ,status.



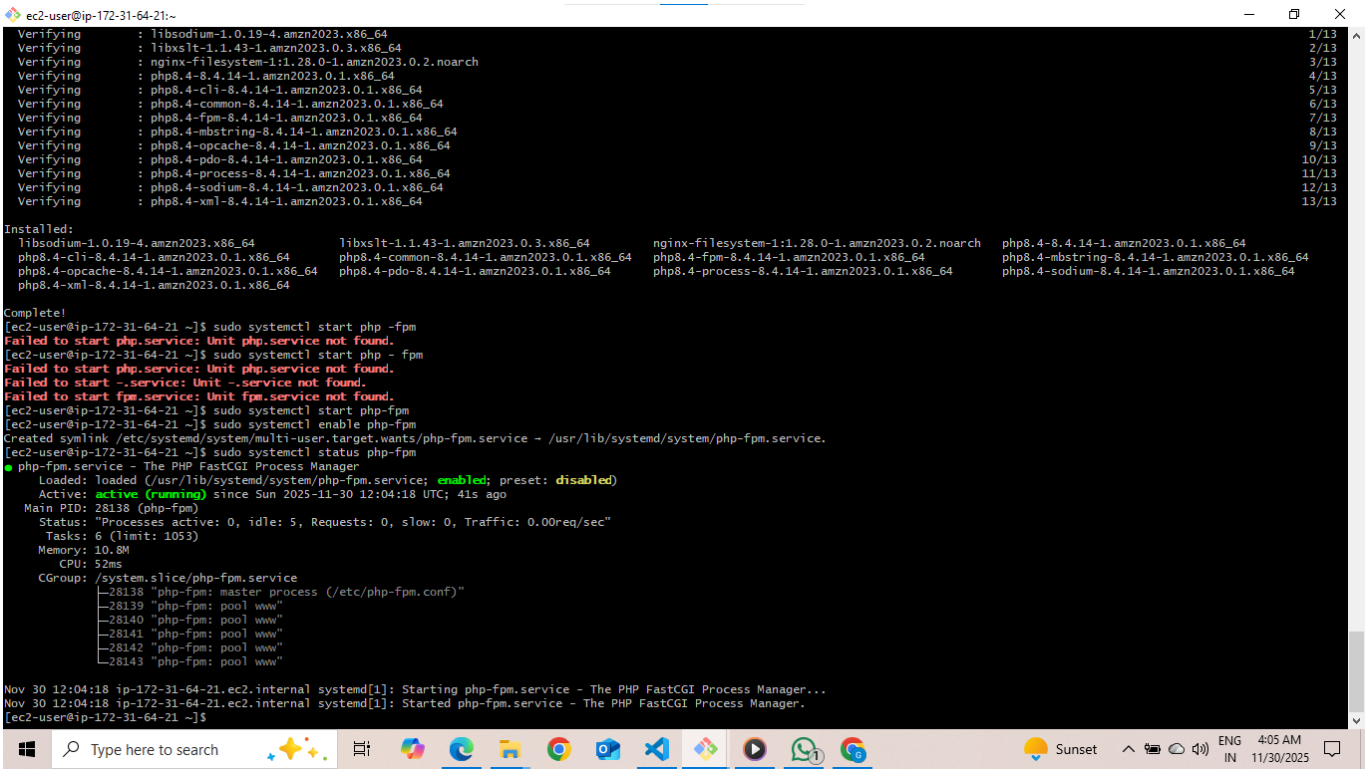
Step7: Install php and extension



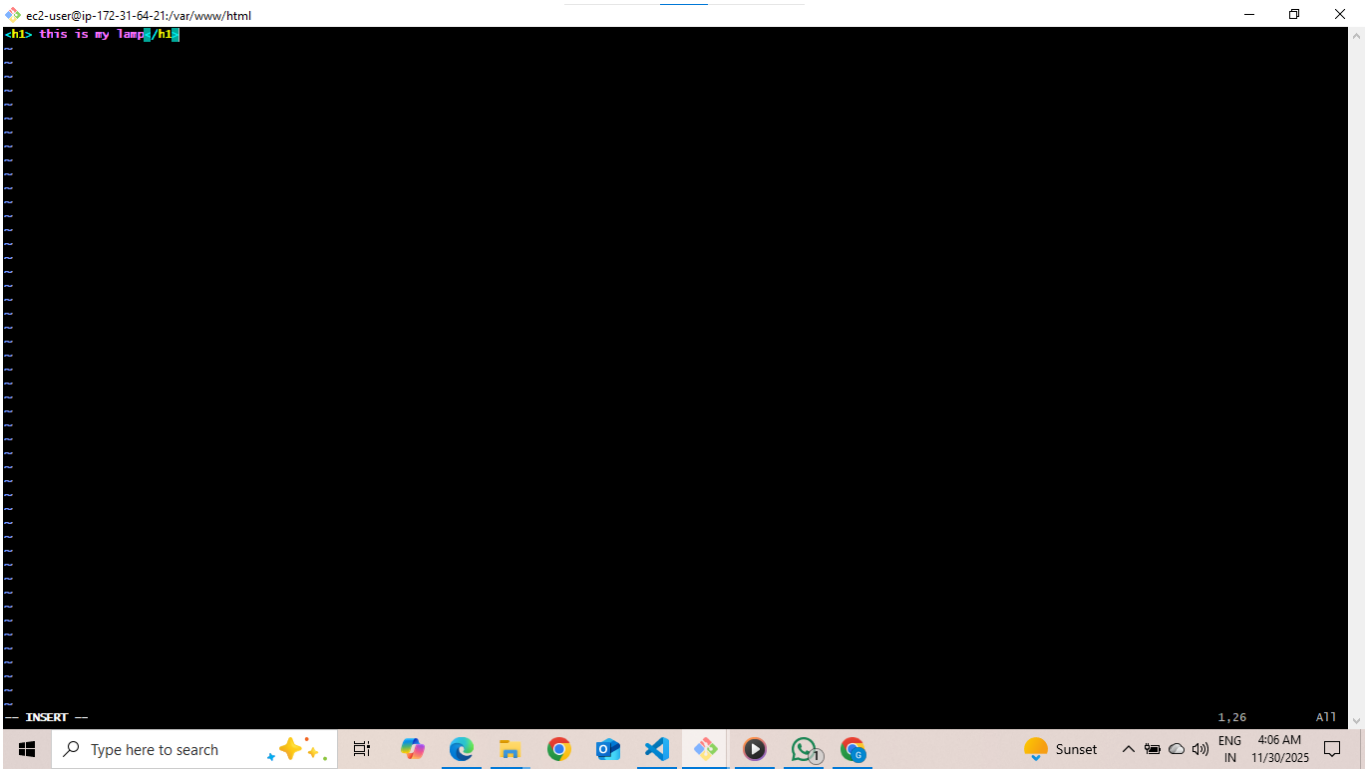
Step8 Start and enable ,status of the php –fpm



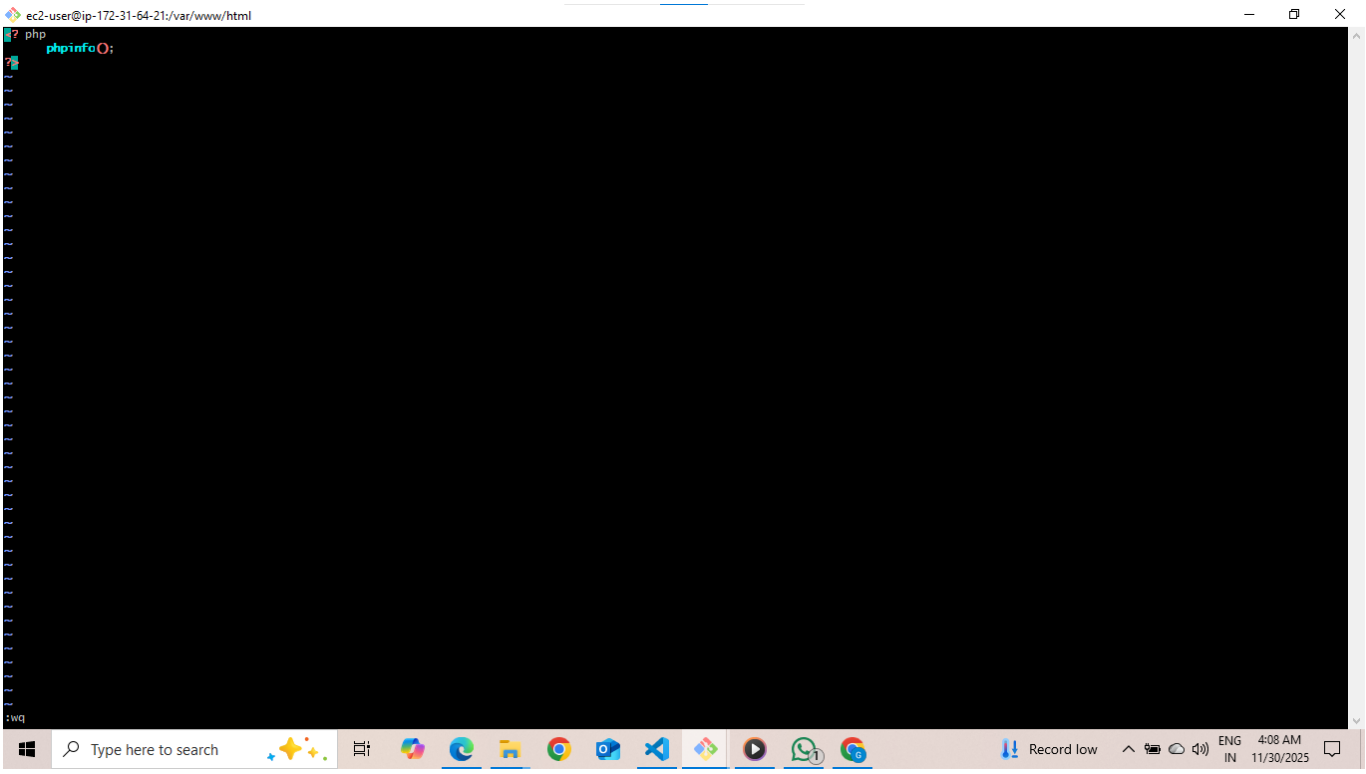
Step 9: Go to html folder and edit the files using vim editor-



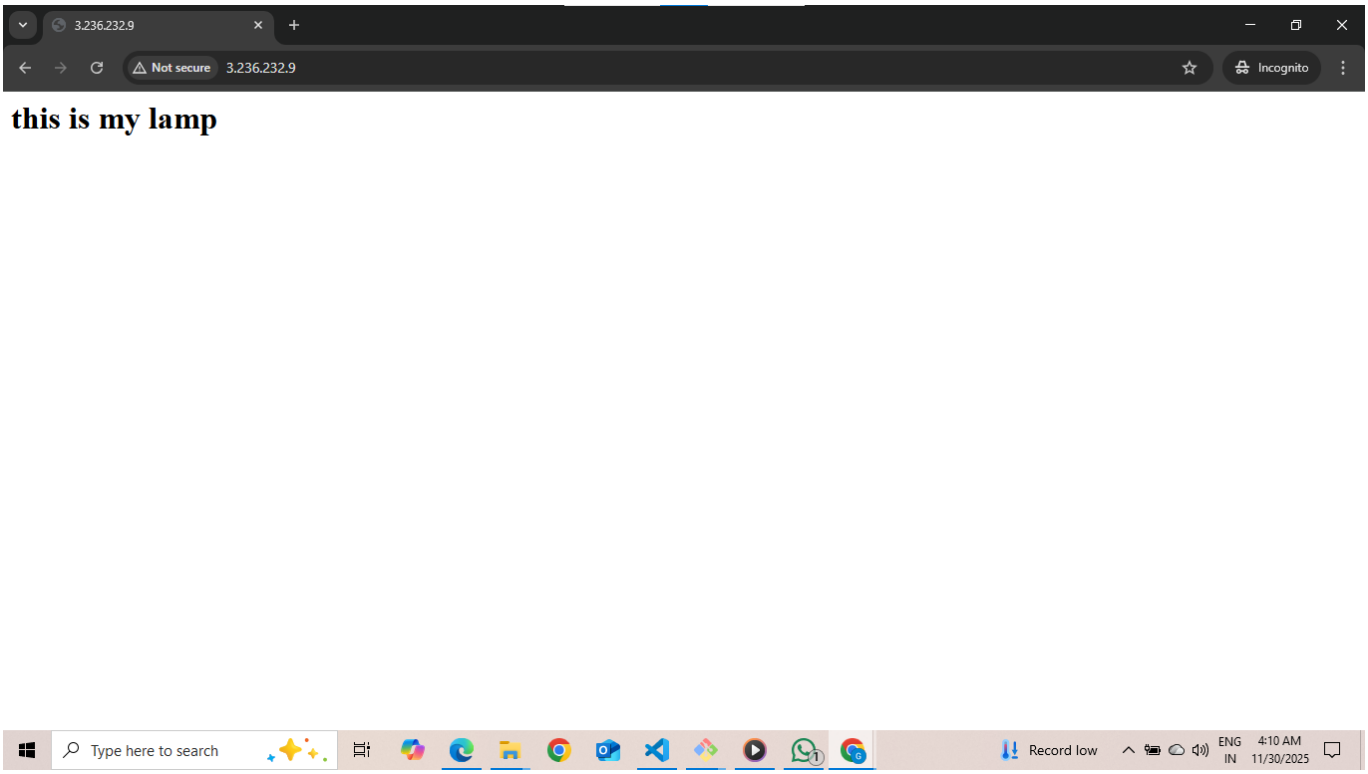
Step10: Write a simple html file.



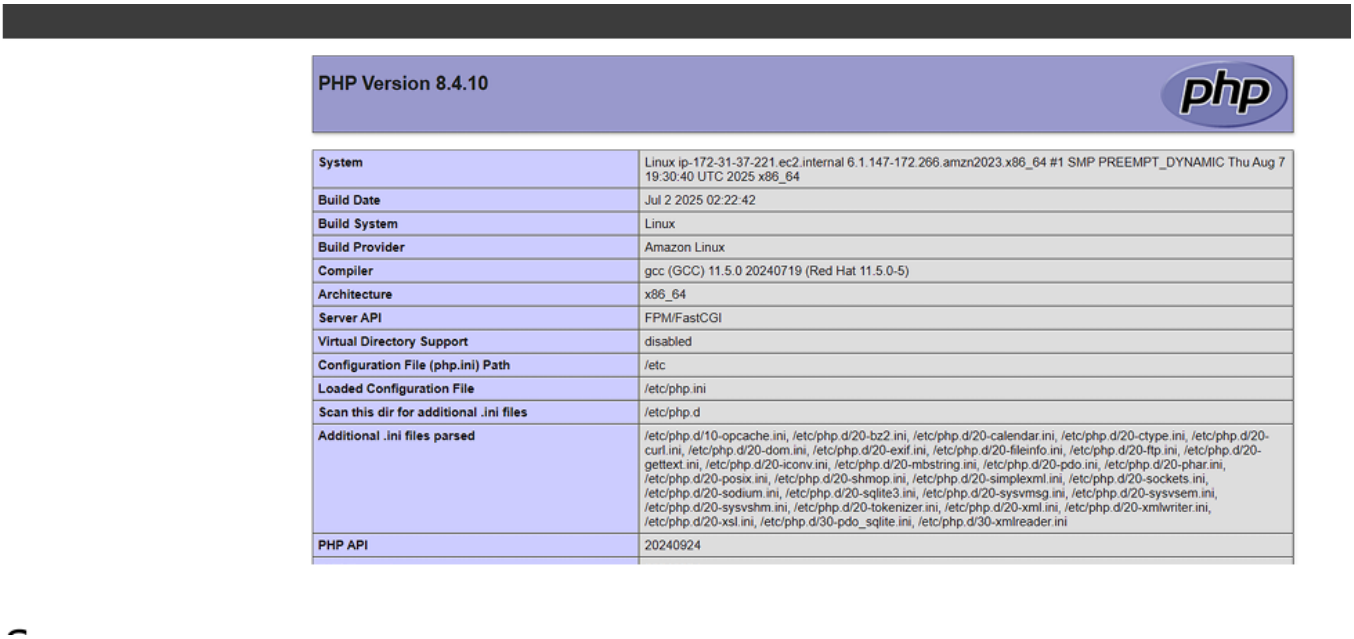
Step11: Create a index.php file



Step12: Write a simple php file



Step13: Test Website copy the public IP address and past.



PHP Version 8.4.10

System	Linux ip-172-31-37-221.ec2.internal 6.1.147-172.266.amzn2023.x86_64 #1 SMP PREEMPT_DYNAMIC Thu Aug 7 19:30:40 UTC 2025 x86_64
Build Date	Jul 2 2025 02:22:42
Build System	Linux
Build Provider	Amazon Linux
Compiler	gcc (GCC) 11.5.0 20240719 (Red Hat 11.5.0-5)
Architecture	x86_64
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/10-opcache.ini, /etc/php.d/20-bz2.ini, /etc/php.d/20-calendar.ini, /etc/php.d/20-ctype.ini, /etc/php.d/20-curl.ini, /etc/php.d/20-dom.ini, /etc/php.d/20-exif.ini, /etc/php.d/20-fileinfo.ini, /etc/php.d/20-ftp.ini, /etc/php.d/20-gettext.ini, /etc/php.d/20-iconv.ini, /etc/php.d/20-mbstring.ini, /etc/php.d/20-pdo.ini, /etc/php.d/20-phar.ini, /etc/php.d/20-posix.ini, /etc/php.d/20-shmop.ini, /etc/php.d/20-simplexml.ini, /etc/php.d/20-sockets.ini, /etc/php.d/20-sodium.ini, /etc/php.d/20-sqlite3.ini, /etc/php.d/20-sysvmsg.ini, /etc/php.d/20-sysvsem.ini, /etc/php.d/20-sysvshm.ini, /etc/php.d/20-tokenizer.ini, /etc/php.d/20-xml.ini, /etc/php.d/20-xmlwriter.ini, /etc/php.d/20-xsl.ini, /etc/php.d/30-pdo_sqlite.ini, /etc/php.d/30-xmlreader.ini
PHP API	20240924