**Task 14 – Cloud VM Setup and Web Hosting**

**Steps Performed:**

**1. Created a VM Instance**

- Logged into Google Cloud Platform (GCP) → Compute Engine → VM Instances.

- Created a free-tier Debian 12 VM and enabled Allow HTTP & HTTPS traffic.

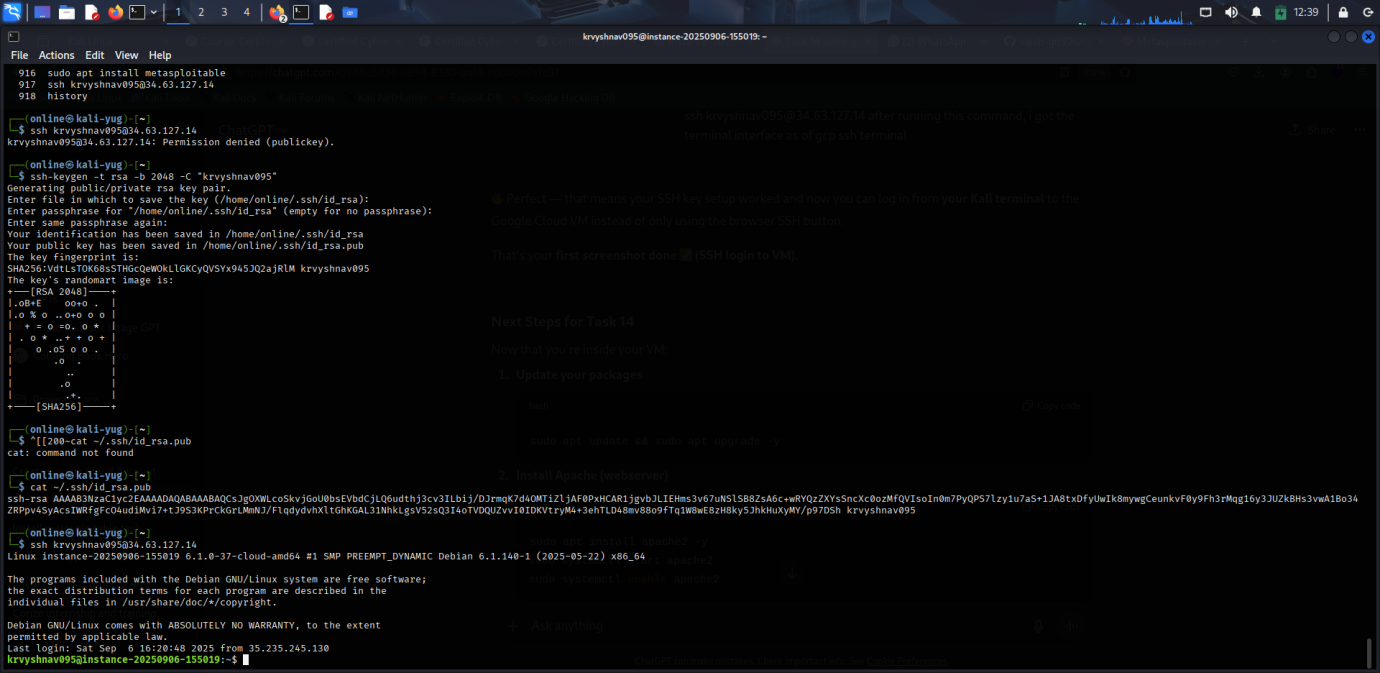
- Added my SSH public key in the instance settings.

- Connected from Kali Linux terminal using:

Command:

ssh krvyshnav095@34.60.8.190

- Screenshot: screenshot1.png (SSH terminal showing Apache running)



**2. Cloned GitHub Repository**

- Installed git:

sudo apt install git -y

- Cloned my Task 12 repo:

git clone https://github.com/vaish-git926/task-12

- Screenshot: included in terminal log.

**3. Apache Webserver Setup**

- Installed Apache2:

sudo apt install apache2 -y

sudo systemctl start apache2

sudo systemctl enable apache2

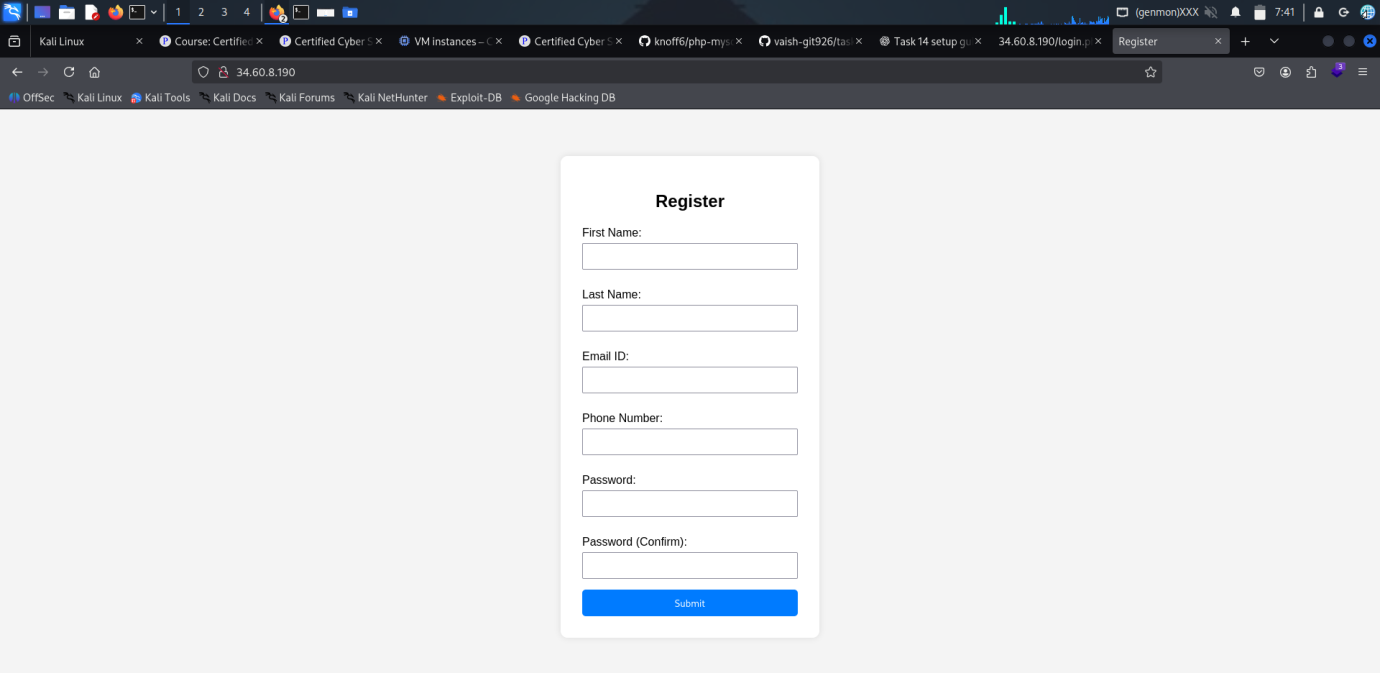
- Copied project files to Apache root:

sudo cp -r task-12/\* /var/www/html/

- Verified site by visiting:

http://34.60.8.190

- Screenshot: screenshot2.png (Firefox showing the hosted webpage)



**4. PHP and Database Setup**

- Installed PHP and MariaDB:

sudo apt install php libapache2-mod-php php-mysql mariadb-server -y

- Started database service:

sudo systemctl start mariadb

sudo systemctl enable mariadb

**5. Database Creation**

- Logged into MariaDB as root:

sudo mysql -u root

- Executed SQL commands:

CREATE DATABASE userdb;

USE userdb;

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

password VARCHAR(255) NOT NULL

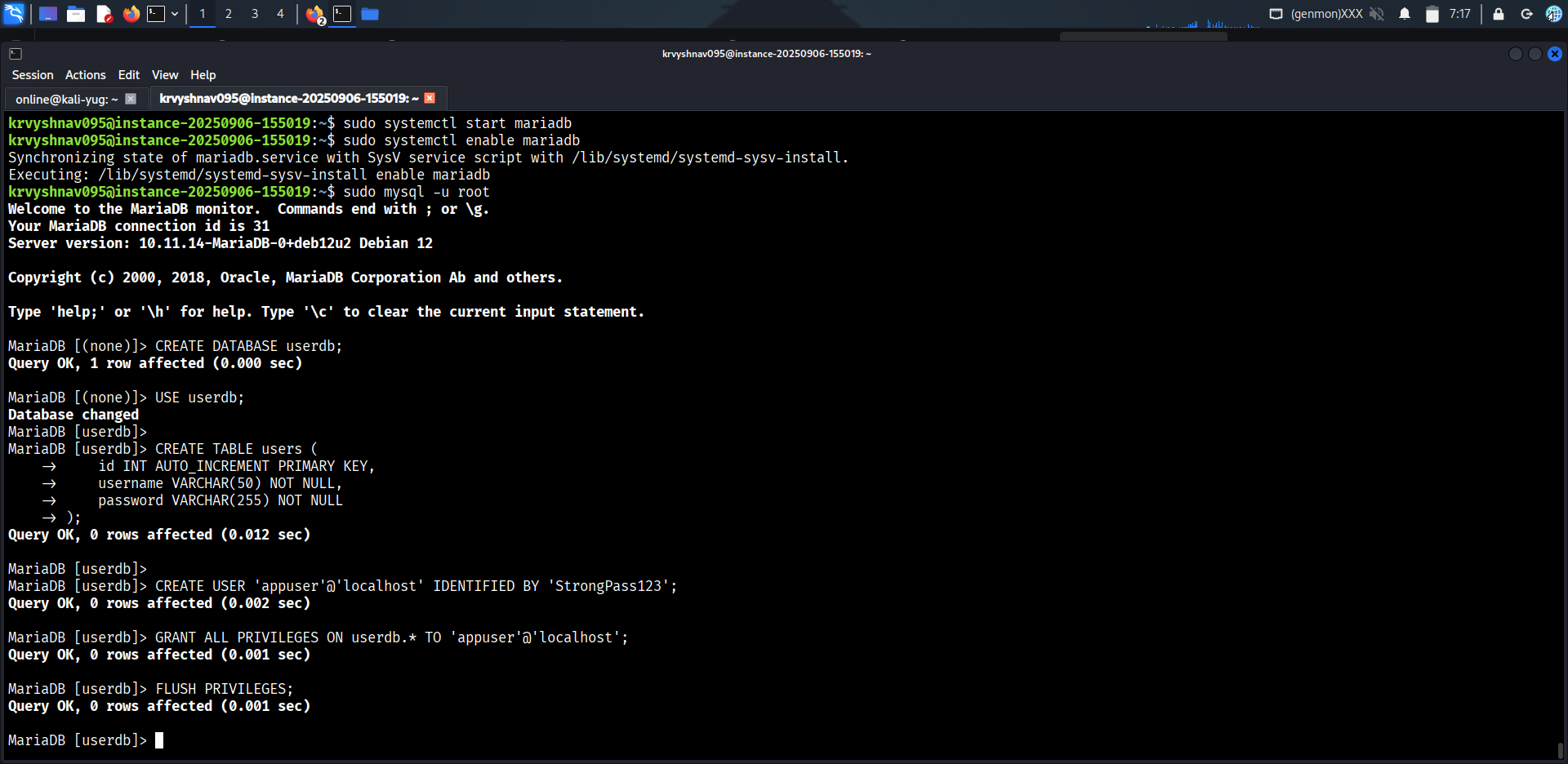
);

CREATE USER 'appuser'@'localhost' IDENTIFIED BY 'StrongPass123';

GRANT ALL PRIVILEGES ON userdb.\* TO 'appuser'@'localhost';

FLUSH PRIVILEGES;

- Screenshot: screenshot3.png (Database and users table created)



**6. User Login Test**

- Logged in as the new user:

mysql -u appuser -p

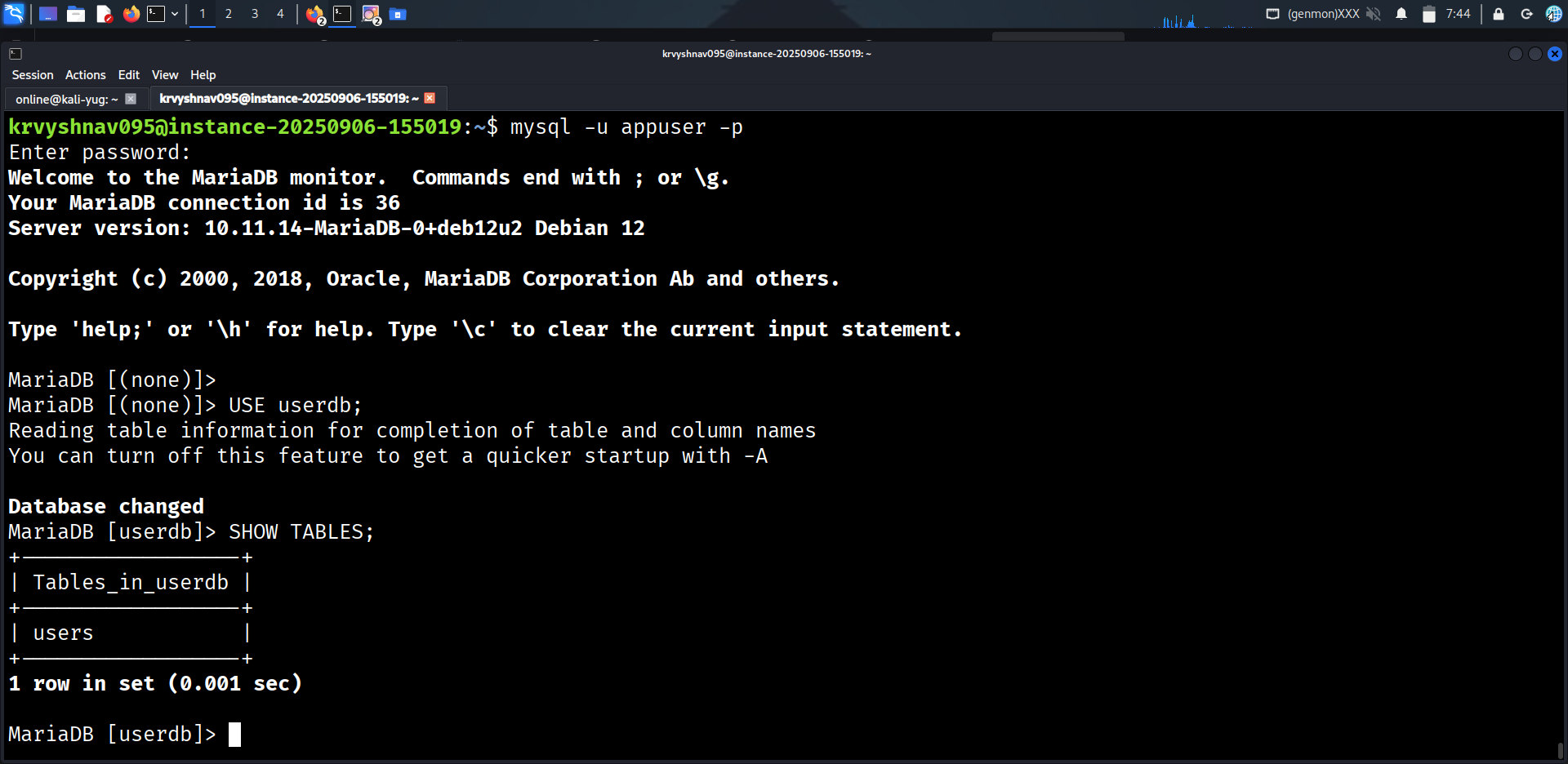
Password: StrongPass123

- Selected the database and verified tables:

USE userdb;

SHOW TABLES;

- Screenshot: screenshot4.png (Login as appuser and showing tables)



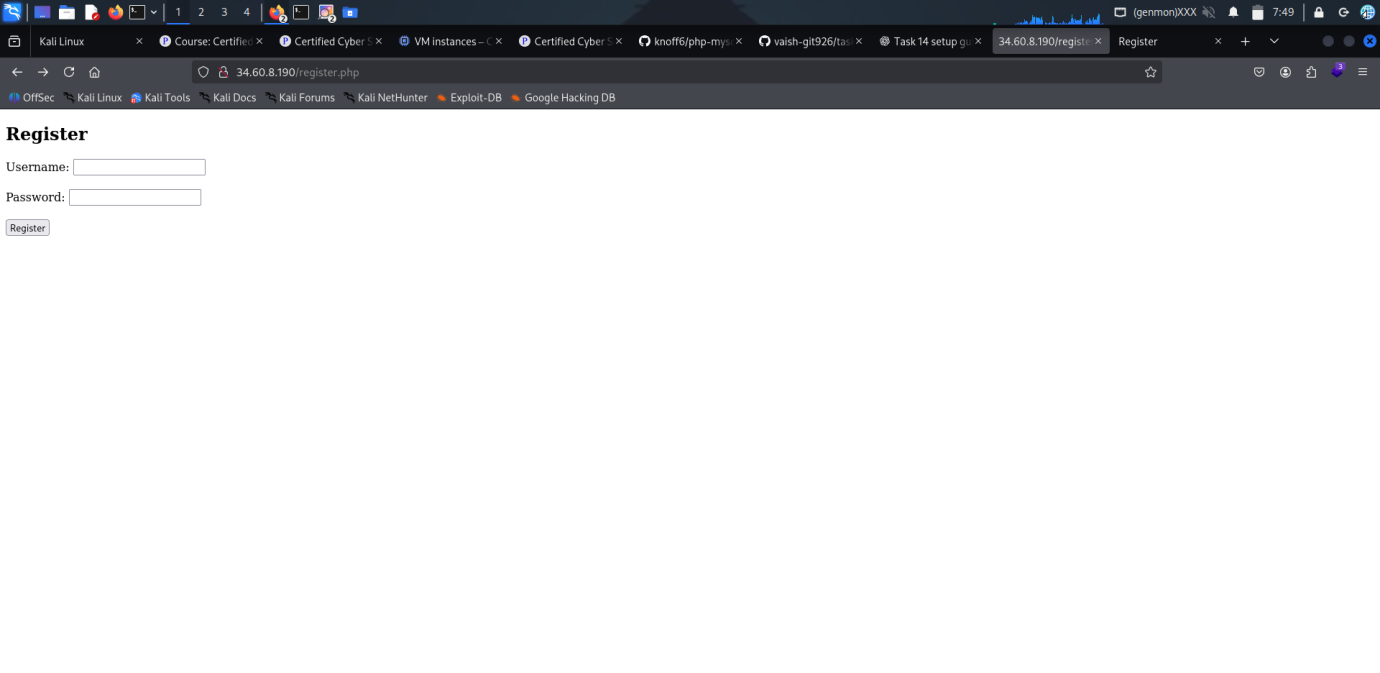
**7. Registration Page**

- Created a register.php file to allow user signup and insert data into database.

- Verified from browser:

http://34.60.8.190/register.php

- Screenshot: screenshot5.png (Register page accessible publicly)



**Summary of Screenshots:**

1. screenshot1.png – SSH terminal showing Apache running

2. screenshot2.png – Webpage hosted and accessible via IP in Firefox

3. screenshot3.png – Database and users table created

4. screenshot4.png – Login as appuser and show tables

5. screenshot5.png – Register.php form accessible (Cloud Dweller badge proof)

**Public IP:**

http://34.60.8.190/

**Database Credentials:**

Username: appuser

Password: StrongPass123

Database: userdb

Table: users