# TASK 14

# Steps to Deploy a Web Application on a Cloud VM

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# Steps to Deploy a Web Application on a Cloud VM

# **Step 1: Connect to the Cloud VM**

- Access the Kali Linux terminal and establish a connection to the cloud VM using SSH.
- Command:

sudo ssh -i Documents/cloudkey.pem ec2-user@34.230.49.137

• Screenshot: [SSH LOGIN Screenshot]

# **Step 2: Clone the GitHub Repository**

- Download the application files by cloning the repository from GitHub.
- Command:

# **Step 3: Transfer Files to Apache Directory**

- Move the cloned web application files to the Apache web server's root directory for deployment.
- Command:

sudo cp -r /home/ec2-user/webapp/cloudweb /var/www/html

#### Step 4: Launch Apache Web Server

- Start the Apache web server to serve the web application.
- Command:

sudo systemctl start httpd

# **Step 5: View the Web Application**

- Use a browser to access the deployed application by navigating to the public IP of the cloud VM.
- Screenshot

#### Step 6: Install PHP and MySQL

- Check for existing installations of PHP and MySQL, and install them if required.
- Command:

sudo yum install php

# **Step 7: Start MySQL Service**

- Start the MySQL server and log in to the MySQL database system.
- Command:

sudo systemetl start mysqld

mysql -u root -p

#### **Step 8: Set Up the Database and Table**

- Create a database and a table to store user registration data.
- SQL Command:

```
sql
```

```
CREATE TABLE IF NOT EXISTS users (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
firstName VARCHAR(50) NOT NULL,
lastName VARCHAR(50) NOT NULL,
email VARCHAR(100) NOT NULL UNIQUE,
phoneNumber VARCHAR(15),
password VARCHAR(255) NOT NULL
)
```

# **Step 9: Develop User Registration Files**

• Create the PHP files required for the user registration feature, ensuring data is stored in the MySQL database.

# Step 10: Log In as Registered User

• Log in as the newly registered user and display the saved data from the database.

#### **Step 11: Test Web Page Accessibility**

• Verify the accessibility of the deployed web page by using the public IP of the cloud VM.

#### **Step 12: Share Public IP for Verification**

• Document the public IP address and share it with team members for verification

Tables\_in\_trash | users row in set (0.00 sec) mysql> CREATE TABLE IF NOT EXISTS users (
-> id INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,
-> firstName VARCHAR(50) NOT NULL,
-> email VARCHAR(100) NOT NULL UNIQUE,
-> phoneNumber VARCHAR(15),
-> password VARCHAR(255) NOT NULL -> ); Query OK, 0 rows affected, 2 warnings (0.00 sec) mysql> describe users; | Null | Key | Default | Extra Field | Type | int unsigned | varchar(50) | varchar(50) | varchar(100) | varchar(15) | varchar(255) NO NO NO NO YES NO NULL NULL NULL NULL NULL id firstName lastName email auto\_increment PRI UNI phoneNumber password rows in set (0.00 sec) mysql>

id	firstName	lastName	email	phoneNumber	password	
1   2   3	   ewfw   anomy		anomy@hack.onion	9876543210	\$2y\$10\$Z3wUB4yQRsbWtkIbuBIg5.f2ZM2w19pNK7aHOTyJw3GMcriNlb7sC   \$2y\$10\$.ZlQG.a/8T0agDEMjr7JxeHIvzVTqdlRgHuhv30p6VnCr238KrW1C   \$2y\$10\$r2/WfTL5Yzr2qQfhjzctgONsWPlleYjX.YK0ghdBmdF4tf.D3Ltlu	
3 rok	vs in set (0.	(001 sec)			+	+

#### Registration

#### First Name

Enter your first name

#### Email

Enter your email

#### Password

Enter your password

#### Last Name

Enter your last name

#### Phone Number

Enter your phone

#### Confirm Password

Confirm your password

#### Register