Experiment No. 7 (Prerequisite) - Experiment on Web Security

Aim – To install and configure DVWA (Damn Vulnerable Web Application)

DVWA Setup –

Use a virtual machine to install this as this application has vulnerabilities.
Complete the following Setup before lab 7.

Lab Setup:

1. Install LAMP stack and required packages:

   sudo apt update
   sudo apt install -y apache2 mariadb-server php php-mysqli php-xml php-gd php-mbstring git unzip

2. Start/enable services:

   sudo systemctl enable --now apache2
   sudo systemctl enable --now mariadb

3. Secure MariaDB (follow prompts; set root password, remove test DB):

   sudo mysql_secure_installation

4. Download DVWA into web root:

   cd /tmp
   git clone https://github.com/digininja/DVWA.git
   sudo mv DVWA /var/www/html/dvwa

5. Set permissions and create config:

   sudo chown -R www-data:www-data /var/www/html/dvwa
   sudo chmod -R 755 /var/www/html/dvwa
   cd /var/www/html/dvwa/config
   sudo cp config.inc.php.dist config.inc.php
   # Edit config.inc.php to set database credentials if necessary

6. Create DVWA database:

   sudo mysql -u root -p
   # inside mysql:
   CREATE DATABASE dvwa;
   CREATE USER 'dvwauser'@'localhost' IDENTIFIED BY 'dvwapass';
   GRANT ALL PRIVILEGES ON dvwa.* TO 'dvwauser'@'localhost';
   FLUSH PRIVILEGES;
   EXIT;

- Edit /var/www/html/dvwa/config/config.inc.php:
- set $_DVWA['db_user'] = 'dvwauser';
- set $_DVWA['db_password'] = 'dvwapass';
- set $_DVWA['db_database'] = 'dvwa';

7. Finish setup via browser:

- Open http://<vm-ip>/dvwa/setup.php and click "Create / Reset Database".
- Login at http://<vm-ip>/dvwa/ with default credentials:
  - username: admin
  - password: password
- Set DVWA security level to **low** for initial labs (use medium/high for advanced tasks).

Useful YouTube Video Links –

1. Install DVWA – [Installing and Configuring DVWA - Damn Vulnerable Web Application in Ubuntu](#)
2. DVWA setup (Kali Linux)– [0 - Intro/Setup - Damn Vulnerable Web Application (DVWA)](#)
3. DVWA Git Link: https://github.com/digininja/DVWA.git