**DVWA Local Setup Project** 

Project Overview:

Damn Vulnerable Web Application (DVWA) is a PHP/MySQL web application that is damn

vulnerable. Its main goal is to aid security professionals in testing their skills and tools in a legal

environment.

Setup Environment:

- OS: Kali Linux

- Web Server: Apache2

- Database: MariaDB/MySQL

- Language: PHP 8.4.5

- Tools: DVWA, git, phpmyadmin (optional)

Steps Taken:

1. Installed necessary packages (apache2, mariadb-server, php, php-mysqli, git)

2. Cloned DVWA from GitHub: https://github.com/digininja/DVWA.git

3. Copied and configured config.inc.php with database credentials

4. Created database and user with necessary privileges:

- Database: dvwa

- User: dvwauser

- Password: p@ssw0rd

5. Enabled required PHP settings and Apache modules

6. Restarted Apache2 and accessed DVWA via http://localhost/DVWA

7. Clicked 'Create / Reset Database' on DVWA setup page

## Configuration Example (config.inc.php):

```
$_DVWA[ 'db_server' ] = '127.0.0.1';
```

## Troubleshooting:

- Fixed "mysqli\_connect(): Connection refused" by correcting DB credentials and permissions
- Resolved "Access denied for user" by granting privileges and flushing them
- Verified Apache and PHP configurations (mod\_rewrite, display\_errors, etc.)
- Ensured MySQL was listening on the correct port

## Next Steps:

- Integrate DVWA logs with Splunk for monitoring
- Add Wazuh agent to the system for threat detection
- Explore vulnerabilities through DVWA modules (SQLi, XSS, etc.)