

DVWA WEB APPLICATION VULNERABILITY

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Executive Summary:

The objective of this assignment is to familiarize students with common web vulnerabilities and their exploitation techniques using Damn Vulnerable Web Application (DVWA).

Assessment criteria:

Installing DVWA in Kali Linux

DVWA (Damn Vulnerable Web Application) is a deliberately insecure web application designed for practicing penetration testing techniques in a safe environment. Here's how to install it on Kali Linux:

Prerequisites:

- **Kali Linux system with a terminal window open.**
- **Root or sudo privileges**

Steps:

1. Install Required Packages:

sudo apt update && sudo apt install apache2 mariadb-server php php-mysqli php-gd libapache2-mod-php

2. Download DVWA:

We can download DVWA using Git. Navigate to the default web server directory

```
cd /var/www/html
```

3. Then, clone the DVWA repository using the following command:

```
sudo git clone https://github.com/digininja/DVWA.git
```

4. Configure DVWA:

Navigate to the downloaded DVWA directory:

```
cd DVWA
```

5. Rename the configuration file:

```
sudo mv config.inc.php.dist config.inc.php
```

1. Configure Database:

Open the configuration file **config.inc.php** in a text editor (e.g., nano) and edit the database credentials section according to your MariaDB setup.

Important: Use strong passwords for the database user.

2. Configure Apache:

By default, Apache should be configured to allow access to the DVWA directory. You can check the Apache configuration file **(/etc/apache2/sites-available/000-default.conf)** for settings related to the document root **(/var/www/html)**.

6. Restart Apache to apply any changes:

```
sudo systemctl restart apache2
```

7. Access DVWA:

Open a web browser and navigate to **http://localhost/dvwa/** (or your server's IP address followed by /dvwa/).

You should see the DVWA login page. The default credentials are:

- **Username: admin**
- **Password: password**

8. Create Database:

After logging in, navigate to the **"Create/Reset Database"** section and follow the instructions to create a database for DVWA.