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Assignment 2

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Step -1 Purpose and Usage of SQLMap:

SQLMAP is an open-source penetration tool. SQLMAP allows you to automate the process of identifying and then exploiting SQL injection flaws and subsequently taking control of the database servers. In addition, SQLMAP comes with a detection engine that includes advanced features to support penetration testing.

Sqlmap supports six different injection techniques: boolean-based blind, time-based blind, error-based, UNION query, stacked queries, and out-of-band. Depending on the target application, some techniques may work better than others, or some may not work at all.

Step -2 Installing of SQLMap:

Install sqlmap by using command - "sudo apt-get install sqlmap"

```
<u>-</u>
                                root@kali: /home/kali
File Actions Edit View Help
      oot<mark>® kali</mark>)-[/home/kali]
apt-get install sqlmap
Reading package lists... Done
Building dependency tree ... Done
Reading state information... Done
The following packages will be upgraded:
  sqlmap
1 upgraded, 0 newly installed, 0 to remove and 578 not upgraded.
Need to get 6891 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://kali.download/kali kali-rolling/main amd64 sqlmap all 1.8.3-1 [6
Fetched 6891 kB in 4s (1941 kB/s)
(Reading database ... 403879 files and directories currently installed.)
Preparing to unpack .../sqlmap_1.8.3-1_all.deb ...
Unpacking sqlmap (1.8.3-1) over (1.8.2-1) ...
Setting up sqlmap (1.8.3-1) ...
Installing new version of config file /etc/sqlmap/sqlmap.conf ...
Processing triggers for wordlists (2023.2.0) ...
Processing triggers for kali-menu (2023.4.7) ...
Processing triggers for man-db (2.12.0-3) ...
           kali)-[/home/kali]
```

Step -3 Identifying a Vulnerable Web Application:

The below image is the login page of the vulnerable DVWA site.



Open SQL injection tab and tap 'OR 1=1 # then we get



Hence we conclude that this is a vulnerability showing the user information and hence this is a vulnerable site.

Step -4 Performing a Basic SQL Injection Attack:

Lets perform simple sql injection attack, for that use the below code sqlmap -u "http://target.com/page.php?id=1" --dbs this will give the database information of the target.

```
available databases [2]:
[*] acuart
[*] information_schema
```

Step -5 Documenting the Steps:

- To install sqlmap use sudo apt-get install sqlmap
- To get database of target site use sqlmap -u "http://target.com/page.php?id=1" --dbs