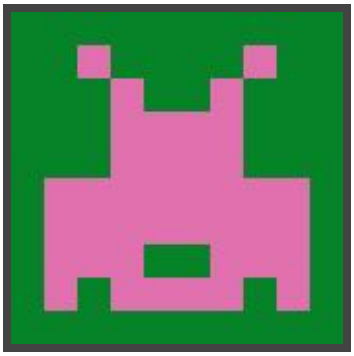
Hack The Box
PEN-TESTING LABS



Grandpa

4th[th] October 2017 / Document No D17.100.05

Prepared By: Alexander Reid (Arrexel)

Machine Author: ch4p

Difficulty: Easy

Classification: Official

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SYNOPSIS

Grandpa is one of the simpler machines on Hack The Box, however it covers the widely-exploited CVE-2017-7269. This vulnerability is trivial to exploit and granted immediate access to thousands of IIS servers around the globe when it became public knowledge.

Skills Required

- Basic knowledge of Windows
- Enumerating ports and services

Skills Learned

- Identifying known vulnerabilities
- Identifying stable processes
- Basic Windows privilege escalation techniques

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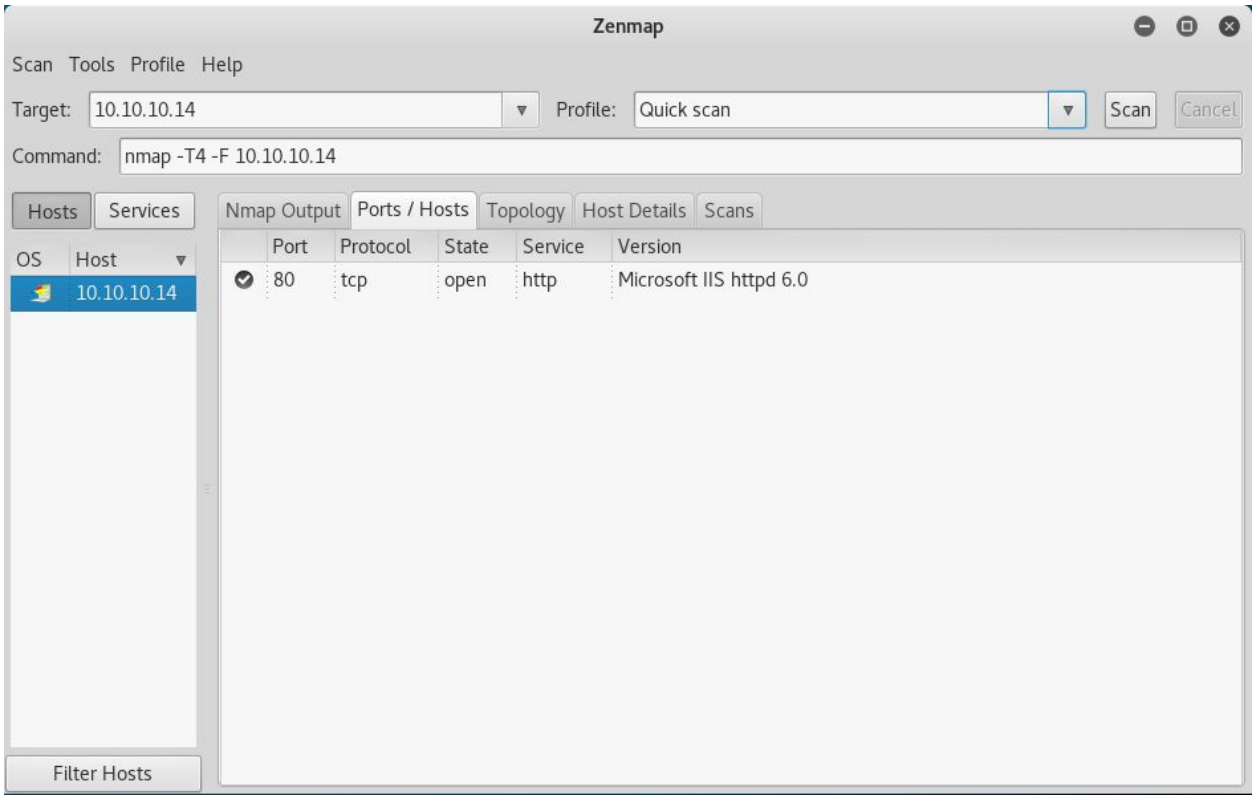
Enumeration

Nmap



Nmap reveals just one open service, Microsoft IIS version 6.0. Some searching reveals a remote code execution vulnerability (CVE-2017-7269). There is a proof of concept that requires some modification, as well as a Metasploit module.

Proof of concept: https://www.exploit-db.com/exploits/41738/

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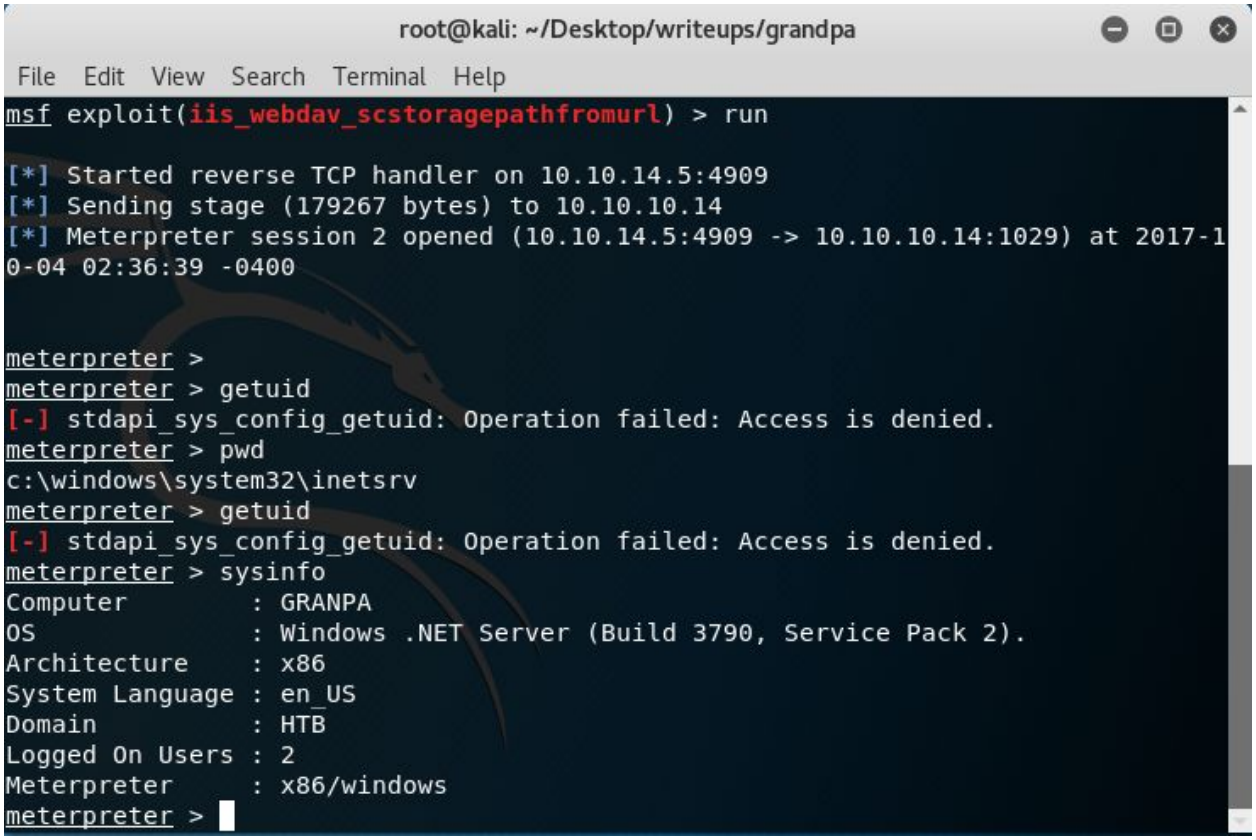
Exploitation

Executing the Metasploit module **iis_webdav_scstoragepathfromurl** immediately grants a shell. The target appears to be Windows Server 2003 with x86 architecture.



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Privilege Escalation

Running **local_exploit_suggester** in Metasploit returns several recommendations:

- exploit/windows/local/ms14_058_track_popup_menu
- exploit/windows/local/ms14_070_tcpip_ioctl
- exploit/windows/local/ms15_051_client_copy_image
- ... and 3 more ...

At this point it is a good idea to migrate to a process running under **NT AUTHORITY\NETWORK SERVICE**. In this case **davcdata.exe** seemed to be the only stable process available.

The correct exploit in this case is **ms14_070_tcpip_ioctl**, which immediately grants a root shell. The root flag can be obtained from **C:\Documents and Settings\Administrator\Desktop\root.txt**