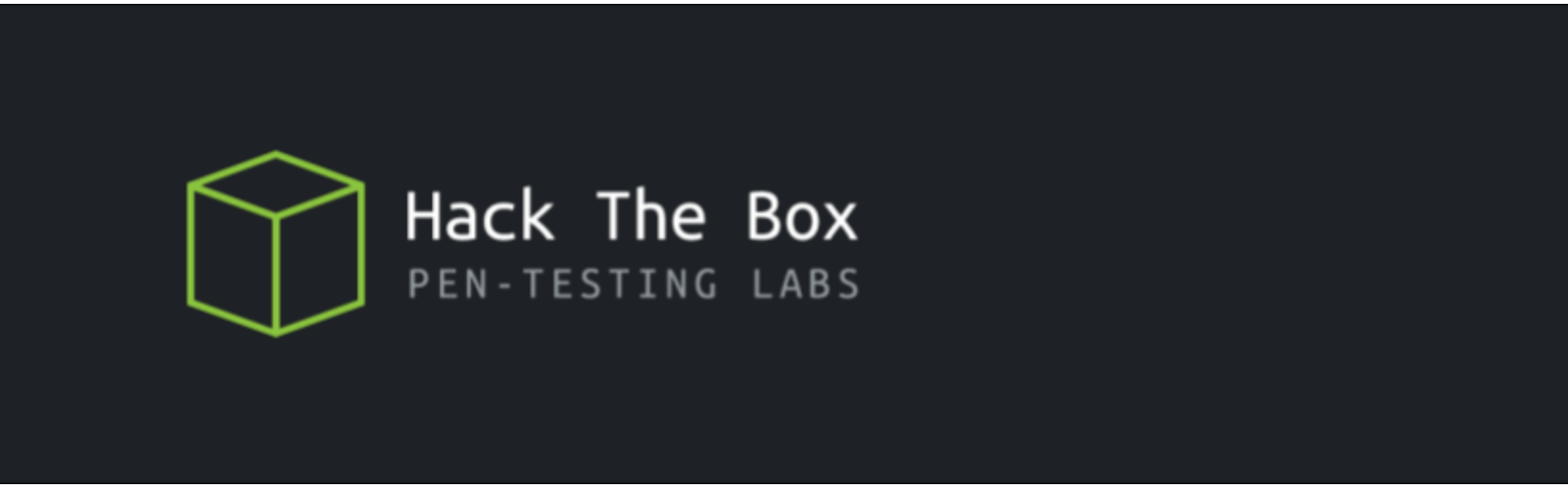


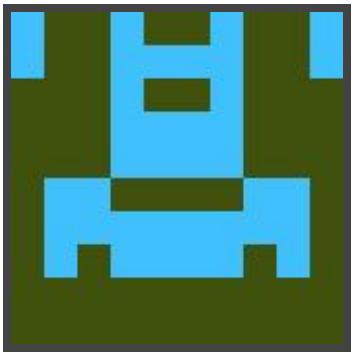

# Granny

## 12th October 2017 / Document No D17.100.17

**Prepared By: Alexander Reid (Arrexel)**

**Machine Author: ch4p**

**Difficulty: Easy**

**Classification: Official**

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## SYNOPSIS

Granny, while similar to Grandpa, can be exploited using several different methods. The intended method of solving this machine is the widely-known Webdav upload vulnerability.

### Skills Required

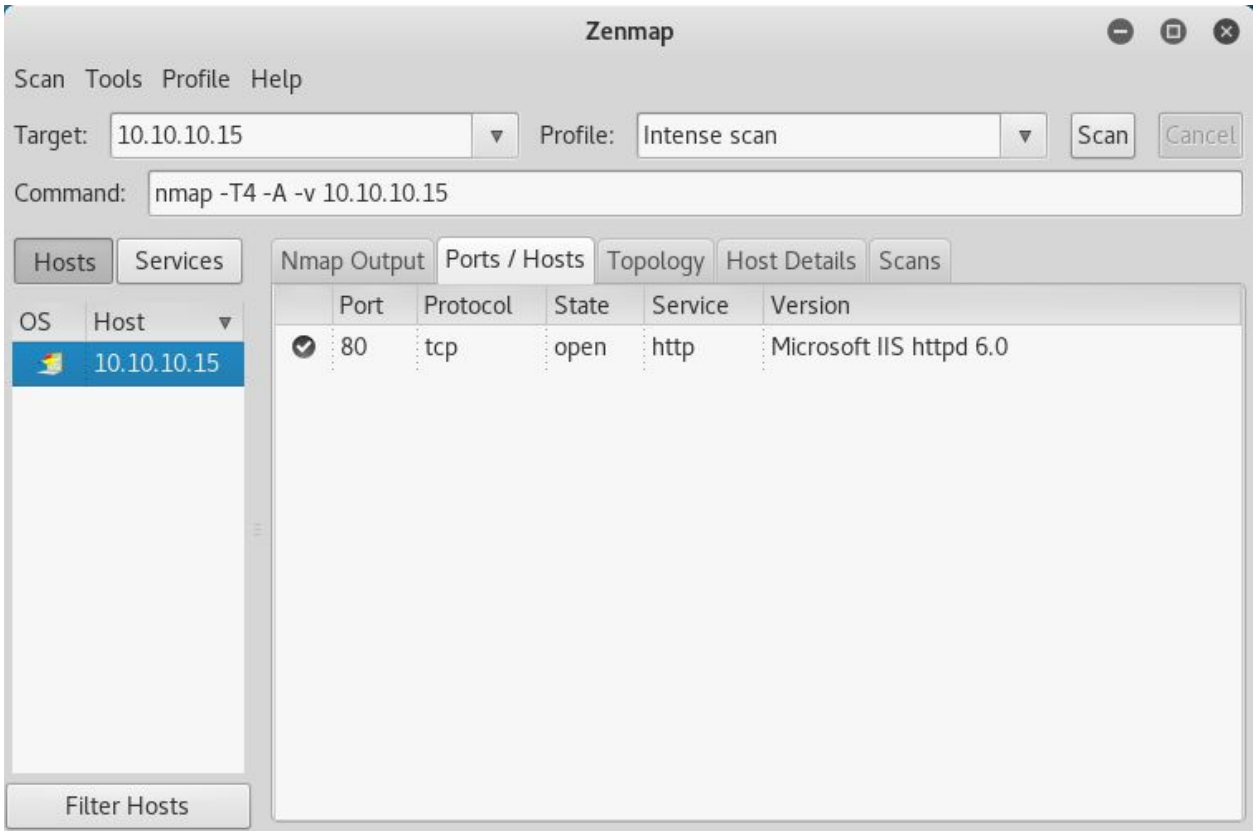
- Basic knowledge of Windows
- Enumerating ports and services

### Skills Learned

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

## 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/16471/

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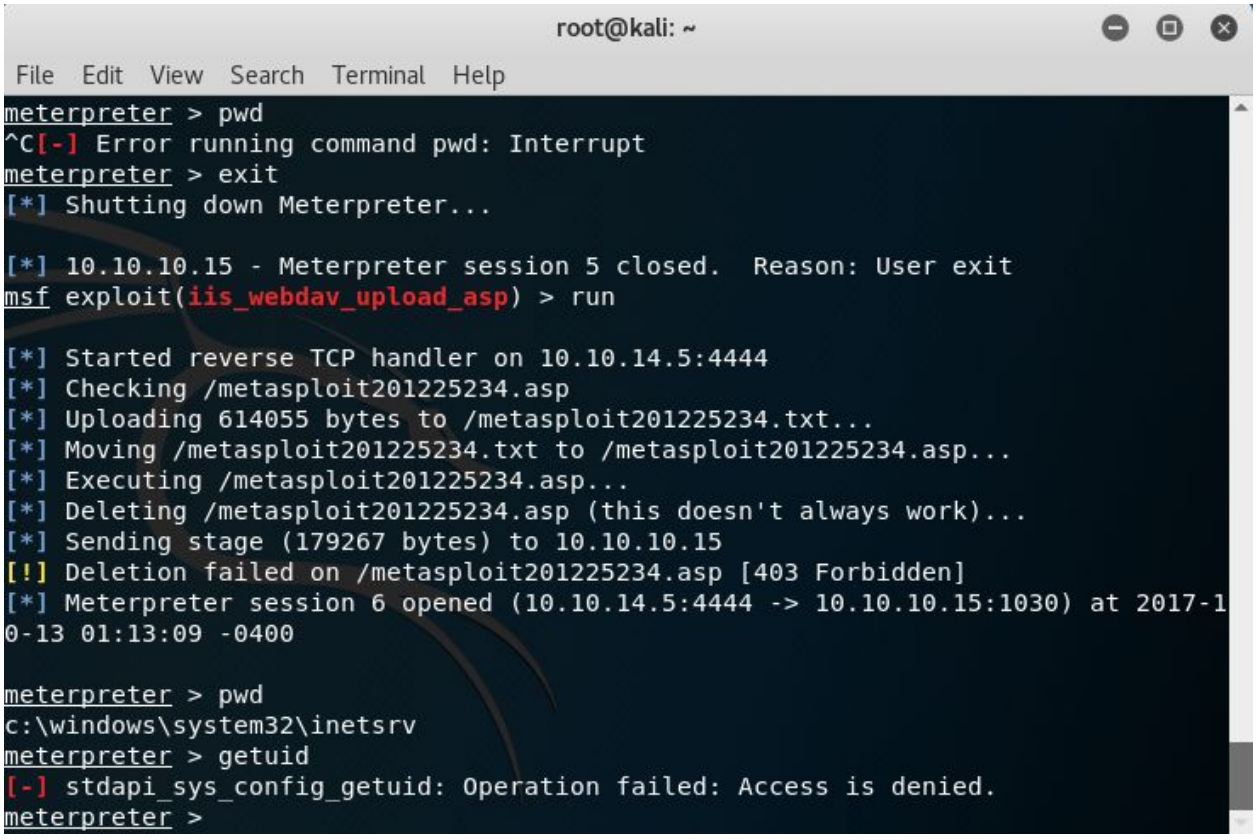
## Exploitation

Executing the Metasploit module **iis_webdav_upload_asp** 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 **ms15_051_client_copy_image**, which immediately grants a root shell. The root flag can be obtained from **C:\Documents and Settings\Administrator\Desktop\root.txt**