Cain & Abel



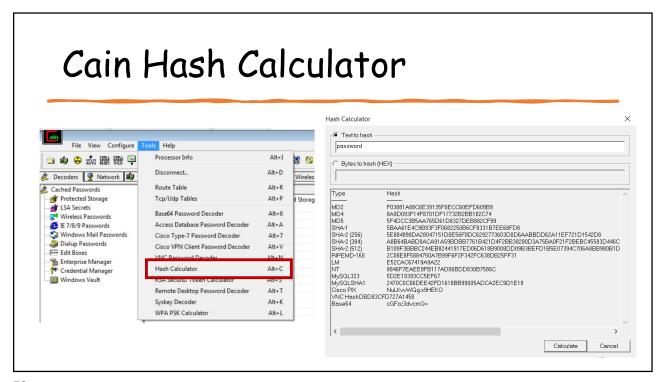
- Written by Massimiliano Montoro
- · Download from
 - https://web.archive.org/web/20160217062632/http://www.oxid.it/projects.html
- Runs on Windows
 - For the Lab, Cain needs to be installed on Windows 7 (download the right version for Windows 7)
 - Install pcap too.
 - If you cannot download it directly from Windows 7, Download it from your host Windows, then copy & paste the file to Windows 7. When you copy and paste, use right-mouse click button to copy and paste. Short-cuts (ctrl-c, v) don't work.

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Password Algorithms Supported

- LANMAN, NT, LANMAN Challenge/Response, NTLMv1, NTLMv2 and more
- Cain doesn't support salted Linux/UNIX passwords such as MD5, SHA256 and SHA512
- Cain also has a sniffer to extract passwords or hashes from various protocols such as SMB, SIP/RTP, etc



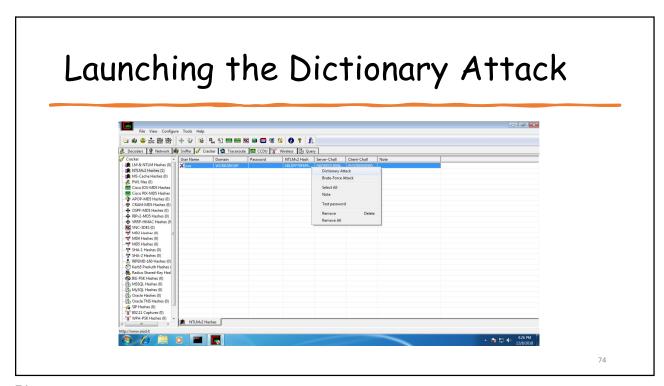
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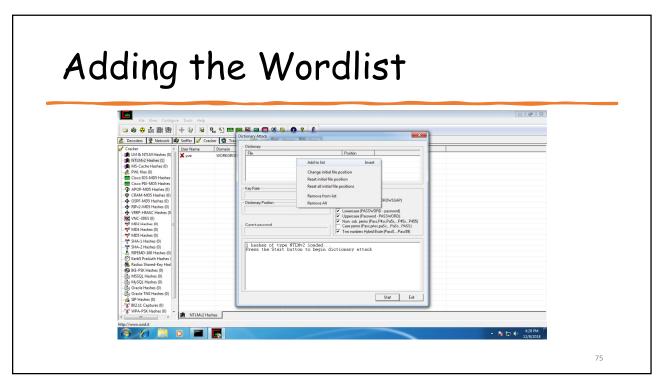
NTLM Sniffing

```
georgia@ubuntu:~$ sudo tcpdump -i eth3 -nv -s0 port 445 -w /tmp/auth.pcap
tcpdump: listening on eth3, link-type EN10MB (Ethernet), capture size 65535 bytes
^C13 packets captured
13 packets received by filter
O packets dropped by kernel
georgia@ubuntu:~$
        <u>File Edit View Terminal Tabs Help</u>
        georgia@ubuntu:~$ smbclient //192.168.84.150/c$ missouri -U sung
        session setup failed: NT_STATUS_LOGON_FAILURE
        georgia@ubuntu:~$ nc -lnvp 3333 < /tmp/auth.pcap</pre>
        listening on [any] 3333 ...
        connect to [192.168.84.152] from (UNKNOWN) [192.168.84.150] 58405
        georgia@ubuntu:~$
                                                                                   71
```

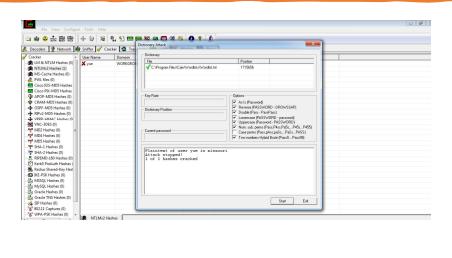

C:\Tools>

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Successfully Cracked the Password

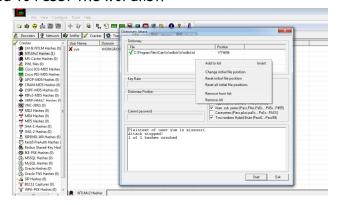


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A Lesson Learned

- Let's redo the lab by choosing a different password missouri. Cain cannot crack the password this time. Why?
- Because we need to reset the wordlist!



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