Cain and Abel (software)

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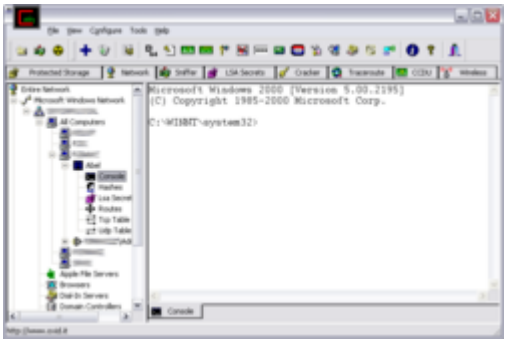
Cain and Abel



A screenshot of Cain and Abel interface.

Developer	Massimiliano Montoro
Stable release	4.9.56 / April 7, 2014; 11 years ago
Operating system	Microsoft Windows
Type	Password cracking/Packet analysis
License	Freeware
Website	web.archive.org/web/20190603235413/http://www.oxid.it/cain.html

Cain and Abel (often abbreviated to **Cain**) was a password recovery tool for Microsoft Windows. It could recover many kinds of passwords using methods such as network packet sniffing, cracking various password hashes by using methods such as dictionary attacks, brute force and cryptanalysis attacks.[1] Cryptanalysis attacks were done via rainbow tables which could be generated with the winrtgen.exe program provided with Cain and Abel.[2] Cain and Abel was maintained by Massimiliano Montoro[3] and Sean Babcock.

- WEP cracking
- Speeding up packet capture speed by wireless packet injection
- Ability to record VoIP conversations
- Decoding scrambled passwords

- Calculating hashes
- Traceroute
- Revealing password boxes
- Uncovering cached passwords
- Dumping protected storage passwords
- ARP spoofing
- IP to MAC Address resolver
- Network Password Sniffer
- LSA secret dumper
- Ability to crack:
    - LM & NTLM hashes
    - NTLMv2 hashes
    - Microsoft Cache hashes
    - Microsoft Windows PWL files
    - Cisco IOS – MD5 hashes
    - Cisco PIX – MD5 hashes
    - APOP – MD5 hashes
    - CRAM-MD5 MD5 hashes
    - OSPF – MD5 hashes
    - RIPv2 MD5 hashes
    - VRRP – HMAC hashes
    - Virtual Network Computing (VNC) Triple DES
    - MD2 hashes
    - MD4 hashes
    - MD5 hashes
    - SHA-1 hashes
    - SHA-2 hashes
    - RIPEMD-160 hashes
    - Kerberos 5 hashes
    - RADIUS shared key hashes
    - IKE PSK hashes
    - MSSQL hashes
    - MySQL hashes
    - Oracle and SIP hashes

Status with virus scanners

[edit]

Some virus scanners (and browsers, e.g. Google Chrome 20.0.1132.47) detect Cain and Abel as malware.

Avast! detects it as "Win32:Cain-B [Tool]" and classifies it as "Other potentially dangerous program",[4] while Microsoft Security Essentials detects it as "Win32/Cain!4_9_14" and classifies it as "Tool: This program has

potentially unwanted behavior." Even if Cain's install directory, as well as the word "Cain", are added to Avast's exclude list, the real-time scanner has been known to stop Cain from functioning. However, the latest version of Avast no longer blocks Cain.

Symantec (the developer of the Norton family of computer security software) identified a buffer overflow vulnerability in version 4.9.24 that allowed for remote code execution in the event the application was used to open a large RDP file, as might occur when using the program to analyze network traffic.[5] The vulnerability had been present in the previous version (4.9.23) as well[6] and was patched in a subsequent release.

- Black-hat hacker
- White-hat hacker
- Hacker (computer security)
- Password cracking
- Aircrack-ng
- Crack
- DaveGrohl
- Hashcat
- John the Ripper
- L0phtCrack
- Ophcrack
- RainbowCrack

1. ^ *"How to use Cain and Abel"*. *Cybrary. Archived from the original on 2024-05-24. Retrieved 2019-08-24.*
2. ^ *"ECE 9609/9069: Introduction to Hacking"*. *Whisper Lab. Archived from the original on 2019-08-24. Retrieved 2019-08-24.*
3. ^ *Zorz, Mirko (2009-07-07). "Q&A: Cain & Abel, the password recovery tool". Help Net Security. Archived from the original on 2024-05-24. Retrieved 2019-08-24.*
4. ^ *Metev, Denis (2019-07-29). "What Is Brute-Force And How to Stay Safe?". Tech Jury. Archived from the original on 2019-08-24. Retrieved 2019-08-24.*
5. ^ *"Attack: Massimiliano Montoro Cain & Abel .rdp File BO: Attack Signature – Symantec Corp". Symantec. Archived from the original on March 13, 2014. Retrieved 2019-08-24.*
6. ^ *"Massimiliano Montoro Cain & Abel Malformed '.rdp' File Buffer Overflow Vulnerability". www.securityfocus.com. Archived from the original on 2020-02-28. Retrieved 2019-08-24.*

- Official website (archived)
- Interview with Massimiliano Montoro, developer of Cain & Abel

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