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Reset Windows Password

Passcape ISO Burner v2.3.2 Some minor improvements

P2P network forensics

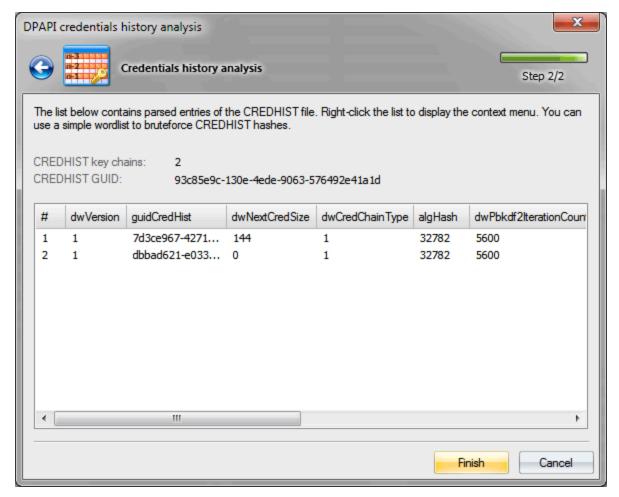
v14.4

31.07.2024

and fixes

You may find it helpful to read our articles on Windows security and password recovery examples.

Video section contains a number of movies about our programs in action



On the screenshot, you can see that the CREDHIST identifier is 93c85e9c-130e-4ede-9063-576492e41a1d. This is the identifier (GUID) all user's Master Keys in the context of the data owner are attached to. The number of links in the hash chain is 2.

The list below contains all attributes and their values for each link of our CREDHIST.

Attribute description

- dwVersion data structure version
- guidCredHist current link unique identifier
- dwNextCredSize next link size
- dwCredChainType link type
- algHash hashing algorithm used when decrypting the link
- dwPbkdf2lterationCount iterations in the PKCS#5 PBKDF2 key generation routine
- dwSidSize owner security descriptor (SID) size
- algCrypt encryption algorithm
- dwShaHashSize SHA1 hash size
- dwNtHashSize NTLM hash size
- **pSalt** salt used in the encryption
- sidUser data owner SID
- pShaHash SHA1 hash
- pNtHash NTLM hash

To guess the original CREDHIST password, right-click on the attributes and then select 'Use a dictionary to validate password...' on the context menu that appears. You can validate the password or PIN for both currently selected and all the records. The validation time increases proportionally to the number of the records (i.e. links).

See the original CREDHIST password search speed comparative table. The speed is measured on a single-core Intel Q8400 CPU for default OS configurations (for example, in Windows 7, the number of iterations in PBKDF2 may differ).

Operating System	Encryption algorithm	Hash function	PBKDF2 counter	Password check speed (p/s)
Windows XP	3DES	SHA1	4000	76
Windows Vista	3DES	SHA1	24000	12
Windows 7	AES256	SHA512	5600	10
Windows 10-11	AES256	SHA512	8000	7

