

- hashcat
- Forums
- Wiki
- Tools
- Events

## Example hashes

If you get a “line length exception” error in hashcat, it is often because the hash mode that you have requested does not match the hash. To verify, you can test your commands against example hashes.

Unless otherwise noted, the password for all example hashes is **hashcat**.

Note also that for many algorithms, when the raw hashes that are components of compound hashes such as sha1(sha1(pass)), the hash byte sequence being hashed is the 'hex' (ASCII) form of the hash. The exception is when the suffix `_bin` is present, which indicates that the raw/binary form of the inner hash is what is being hashed by the outer hash function.

NOTE: Some hash types require specific tools to extract the hashes for attack - consult hash format guidance [https://hashcat.net/wiki/doku.php?id=hash\_format\_guidance] for your hash type if it's not obvious how to prepare it for attack.

If you are running hashcat from a later GitHub commit or a beta, the latest hash types should always be listed on GitHub [https://github.com/hashcat/hashcat/blob/master/docs/hashcat-example-hashes.md].

## Generic hash types

Hash-Mode	Hash-Name	Example
0	MD5	8743b52063cd84097a65d1633f5c74f5
10	md5(\$pass.\$salt)	01dfae6e5d4d90d9892622325959afbe:7050461
20	md5(\$salt.\$pass)	f0fda58630310a6dd91a7d8f0a4ceda2:4225637426
30	md5(utf16le(\$pass).\$salt)	b31d032cfdcf47a399990a71e43c5d2a:144816
40	md5(\$salt.utf16le(\$pass))	d63d0e21fdc05f618d55ef306c54af82:13288442151473
50	HMAC-MD5 (key = \$pass)	fc741db0a2968c39d9c2a5cc75b05370:1234
60	HMAC-MD5 (key = \$salt)	bfd280436f45fa38eaacac3b00518f29:1234
70	md5(utf16le(\$pass))	2303b15bfa48c74a74758135a0df1201
100	SHA1	b89eaac7e61417341b710b727768294d0e6a277b
110	sha1(\$pass.\$salt)	2fc5a684737ce1bf7b3b239df432416e0dd07357:2014
120	sha1(\$salt.\$pass)	cac35ec206d868b7d7cb0b55f31d9425b075082b:5363620024
130	sha1(utf16le(\$pass).\$salt)	c57f6ac1b71f45a07dbd91a59fa47c23abdc87c2:631225
140	sha1(\$salt.utf16le(\$pass))	5db61e4cd8776c7969cfd62456da639a4c87683a:8763434884872
150	HMAC-SHA1 (key = \$pass)	c898896f3f70f61bc3fb19bef222aa860e5ea717:1234
160	HMAC-SHA1 (key = \$salt)	d89c92b4400b15c39e462a8caa939ab40c3aeaaa:1234
170	sha1(utf16le(\$pass))	b9798556b741befdbddcbf640d1dd59d19b1e193
200	MySQL323	7196759210defdc0
300	MySQL4.1/MySQL5	fcf7c1b8749cf99d88e5f34271d636178fb5d130
400	phpass, WordPress (MD5), Joomla! (MD5)	\$P\$984478476IagS59wHZvyQMArxfx58u.
400	phpass, phpBB3 (MD5)	\$H\$984478476IagS59wHZvyQMArxfx58u.
500	md5crypt, MD5 (Unix), Cisco-IOS \$1\$ (MD5) <sup>2</sup>	\$1\$28772684\$iEwNOgGugqO9.biz5sk8k/
501	Juniper IVE	3u+UR6n8AgABAAAHxxdXKmiOmUoqKn2If8ITOhIPYy93EAKbPfs5+49YLFd/B1+omSKbW7DoqNM40/EeVnwJ8kYoXv9zy9D5C5m5A==
600	BLAKE2b-512	\$BLAKE2\$296c269e70ac5f0095e6bf47693480f0fb97ccd0307f5c3bfa4df8f5ca5c9308a0e7108e80a0a9c0ebb715e8b7109b072046c6cd5e155b4cfd2f27216283b1e
610	BLAKE2b-512(\$pass.\$salt)	\$BLAKE2\$41fcd44c789c735c08b43a871b81c8f617ca43918d38aee6cf8291c58ab00a03115857425e5ff6f044be7a5bec8536b52d6c9992e21cd43cdca8a55bbf1f5c1:1033
620	BLAKE2b-512(\$salt.\$pass)	\$BLAKE2\$f0325f9dc3f82a014935442f7adbc069d4636d67276a85b09f8de368f122cf5195a0b780d7fee709fbf1dcd02ddcb581df84508cf1fb0f3393af1be0565491c6:3301
900	MD4	afe04867ec7a3845145579a95f72eca7
1000	NTLM	b4b9b02e6f09a9bd760f388b67351e2b
1100	Domain Cached Credentials (DCC), MS Cache	4dd8965d1d476fa0d026722989a6b772:3060147285011
1300	SHA2-224	e4fa1555ad877bf0ec455483371867200eee89550a93eff2f95a6198
1310	sha224(\$pass.\$salt)	0cf361904f4b0234cf4ade8496d8c11c04e5982db967603e82f22b2f:89452466460220844541730694146873525188525677
1320	sha224(\$salt.\$pass)	4258a61d3d0d5a5b6796f0ab02d081e998fe657d55d22091d3b51409:36669207
1400	SHA2-256	127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2caba935
1410	sha256(\$pass.\$salt)	c73d08de890479518ed60cf70d17faa26a4a71f995c1dcc978165399401a6c4:53743528
1420	sha256(\$salt.\$pass)	eb368a2dfd38b405f014118c7d9747fcc97f4f0ee75c05963cd9da6ee65ef498:560407001617
1430	sha256(utf16le(\$pass).\$salt)	4cc8eb60476c33edac52b5a7548c2c50ef0f9e31ce656c6f4b213f901bc87421:890128
1440	sha256(\$salt.utf16le(\$pass))	a4bd99e1e0aba51814e81388badb23ecc560312c4324b2018ea76393ea1caca9:12345678

Hash-Mode	Hash-Name	Example
1450	HMAC-SHA256 (key = \$pass)	abaf88d66bf2334a4a8b207cc61a96fb46c3e38e882e6f6886742f688b8588c:1234
1460	HMAC-SHA256 (key = \$salt)	8efbef4cec28f228fa948daaf4893ac3638fbae81358ff9020be1d7a9a509fc6:1234
1470	sha256(utf16le(\$pass))	9e9283e633f4a7a42d3abc93701155be8afe5660da24c8758e7d3533e2f2dc82
1500	decrypt, DES (Unix), Traditional DES	48c/R8JAv757A
1600	Apache \$apr1\$ MD5, md5apr1, MD5 (APR) <sup>2</sup>	\$apr1\$71850310\$gh9m4xcAn3MGxogwX/ztb.
1700	SHA2-512	82a9dda829eb778ffe9f9be49e45d47d2dad9664fbb7adf72492e3c81ebd3e29134d9bc12212bf83c6840f10e8246b9db54a4859b7ccd0123d86e5872c1e5082f
1710	sha512(\$pass.\$salt)	e5c3ede3e49fb86592fb03f471c35ba13e8d89b8ab65142c9a8dafb635fa2223c24e5558fd9313e8995019dcbec1fb584146b7bb12685c7765fc8c0d51379fd:6352283260
1720	sha512(\$salt.\$pass)	976b451818634a1e2acba682da3fd6efa72adf8a7a08d7939550c244b237c72c7d42367544e826c0c83fe5c02f97c0373b6b1386cc794bf0d21d2df01bb9c08a:2613516180127
1730	sha512(utf16le(\$pass).\$salt)	13070359002b6fbb3d28e50fba55efcf3d7cc115fe6e3f6c98bf0e3210f1c6923427a1e1a3b214c1de92c467683f6466727ba3a51684022be5cc2ffcb78457d2:341351589
1740	sha512(\$salt.utf16le(\$pass))	bae3a3358b3459c761a3aed40d34022f0609a0d290a0d7274610b16147e58ece00cd849a0bd5cf6a92ee5eb5687075b4e754324dfa70deca6993a85b2ca865bc8:1237015423
1750	HMAC-SHA512 (key = \$pass)	94cb9e31137913665dbee7b058e10be5f050cc356062a2c9679ed0ad6119648e7be620e9d4e1199220cd02b9efb2b1c78234fa1000c728f82bf9f14ed82c1976:1234
1760	HMAC-SHA512 (key = \$salt)	7cce966f5503e292a51381f238d071971ad5442488f340f98e379b3aeae2f33778e3e732cc2f7bdc04f3d460eebf6f8cb77da32df25500c09160dd3bf7d2a6b:1234
1770	sha512(utf16le(\$pass))	79bba09eb9354412d0f2c037c22a777b8bf549ab12d49b77d5b25faa839e4378d8f6fa11aceb6d9413977ae5ad5d011568bad2de4f998d75fd4ce916eda83697
1800	sha512crypt \$6\$, SHA512 (Unix) <sup>2</sup>	\$6\$52450745\$k5ka2p8bFuSmoVT1tOyyuaREkkKBCnQoDKzYIJL9RaE8yMnPgh2XzzF0NDRUhgrcLwg78xs1w5pJiypEdFX/
2000	STDOUT	n/a
2100	Domain Cached Credentials 2 (DCC2), MS Cache 2	\$DCC2\$10240#tom#e4e938d12fe5974dc42a90120bd9c90f
2400	Cisco-PIX MD5	dRRVnUmUHXOTt9nk
2410	Cisco-ASA MD5	02dMBMYkTdC5Ziyp:36
2500	WPA-EAPOL-PBKDF2 <sup>1</sup>	https://hashcat.net/misc/example_hashes/hashcat.hccapx [https://hashcat.net/misc/example_hashes/hashcat.hccapx]
2501	WPA-EAPOL-PMK <sup>14</sup>	https://hashcat.net/misc/example_hashes/hashcat-pmk.hccapx [https://hashcat.net/misc/example_hashes/hashcat-pmk.hccapx]
2600	md5(md5(\$pass))	a936af92b0ae20b1ff6c3347a72e5f8e
2630	md5(md5(\$pass.\$salt)) <sup>*</sup>	0127eecea3120e34c8934ba3b72a390a:0
3000	LM	299bd128c1101fd6
3100	Oracle H: Type (Oracle 7+)	7A963A529D2E3229:3682427524
3200	bcrypt \$2*\$, Blowfish (Unix)	\$2a\$05\$LhayLxreZLhK1LhWvKCyLOj0j1u.Kj0jZ0pEmm134uzrQlFvQJL6
3500	md5(md5(md5(\$pass)))	9882d0778518b095917eb589f6998441
3610	md5(md5(md5(\$pass)).\$salt) <sup>*</sup>	a0ab79f9e2b5a4434d2da61673b56362:1234
3710	md5(\$salt.md5(\$pass))	95248989ec91f6d0439dbde2bd0140be:1234
3730	Dahua (md5(\$salt1.strtoupper(md5(\$salt2.\$pass)))) <sup>*</sup> NVR/DVR/HVR	0e1484eb061b8e9cfd81868bba1dc4a0:229381927:182719643
3800	md5(\$salt.\$pass.\$salt)	2e45c4b99396c6cb2db8bda0d3df669f:1234
3910	md5(md5(\$pass).md5(\$salt))	250920b3a5e31318806a032a4674df7e:1234
4010	md5(\$salt.md5(\$salt.\$pass))	30d0cf4a5d7ed831084c5b8b0ba75b46:1234
4110	md5(\$salt.md5(\$pass.\$salt))	b4cb5c551a30f6c25d648560408df68a:1234
4300	md5(strtoupper(md5(\$pass)))	b8c385461bb9f9d733d3af832cf60b27
4400	md5(sha1(\$pass))	288496d99b33f8f75a7ce4837d1b480
4410	md5(sha1(\$pass).\$salt)	bc8319c0220bff8a0d7f5d703114a725:34659348756345251
4420	md5(sha1(\$pass.\$salt)) <sup>*</sup>	34ebbbba3e5c98f6253c160eae53da092:6224378456121050285
4430	md5(sha1(\$salt.\$pass)) <sup>*</sup>	df0e9ede5b6c7d1fb47199f86029002:59132809201799180722359939692710461886
4500	sha1(sha1(\$pass))	3db9184f5da4e463832b086211af8d2314919951
4510	sha1(sha1(\$pass).\$salt)	9138d472fce6fe50e2a32da4eec4ecd8860f4d5:hashcat1
4520	sha1(\$salt.sha1(\$pass))	a0f835fd5f73d36ebd8d0399cc44e6c2b86a1072b:511358214352751667201107073531735211566650747315
4700	sha1(md5(\$pass))	92d85978d884eb1d99a51652b1139c8279fa8663
4710	sha1(md5(\$pass).\$salt)	53c724b7f34f09787ed3f1b316215fc35c789504:hashcat1
4800	iSCSI CHAP authentication, MD5(CHAP) <sup>2</sup>	afd09efd6f68ca9f18ec77c5869788c3:01020304050607080910111213141516:01
4900	sha1(\$salt.\$pass.\$salt)	85087a691a55cbb41ae335d459a9121d54080b80:488387841
5000	sha1(sha1(\$salt.\$pass.\$salt))	05ac0c544060af48f93f93c3cdf2fc03937ea35b:232725102020
5100	Half MD5	8743b52063cd8409
5200	Password Safe v3	https://hashcat.net/misc/example_hashes/hashcat.psafe3 [https://hashcat.net/misc/example_hashes/hashcat.psafe3

Hash-Mode	Hash-Name	Example
6050	HMAC-RIPEMD160 (key = \$pass) *	4f5edca01734e03dd7e735362625a76e6bcb61b2:52355614946067
6060	HMAC-RIPEMD160 (key = \$salt) *	34d8e55a2ae1e9549a291326ce2f0a8ddc75c5c:08523202563542341
6100	Whirlpool	7ca8eaaaa15eaa4c038b4c47b9313e92da827c06940e69947f85bc0fbcf3eb8fd254da220ad9e208b6b28f6bb9be31dd760f1fdb26112d83f87d96b416a4d258
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes.tc]
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent.tc]
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish.tc]
6213	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes.tc]
6213	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent.tc]
6221	TrueCrypt 5.0+ SHA512 + AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes.tc]
6221	TrueCrypt 5.0+ SHA512 + Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent.tc]
6221	TrueCrypt 5.0+ SHA512 + Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish.tc]
6222	TrueCrypt 5.0+ SHA512 + AES-Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish.tc]
6223	TrueCrypt 5.0+ SHA512 + AES-Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish-serpent.tc]
6222	TrueCrypt 5.0+ SHA512 + Serpent-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-aes.tc]
6223	TrueCrypt 5.0+ SHA512 + Serpent-Twofish-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-twofish-aes.tc]
6222	TrueCrypt 5.0+ SHA512 + Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish-serpent.tc]
6231	TrueCrypt 5.0+ Whirlpool + AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes.tc]
6231	TrueCrypt 5.0+ Whirlpool + Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent.tc]
6231	TrueCrypt 5.0+ Whirlpool + Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish.tc]
6232	TrueCrypt 5.0+ Whirlpool + AES-Twofish (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish.tc]
6233	TrueCrypt 5.0+ Whirlpool + AES-Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish-serpent.tc]
6232	TrueCrypt 5.0+ Whirlpool + Serpent-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-aes.tc]
6233	TrueCrypt 5.0+ Whirlpool + Serpent-Twofish-AES (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-twofish-aes.tc]
6232	TrueCrypt 5.0+ Whirlpool + Twofish-Serpent (legacy)	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish-serpent.tc]
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes_boot.tc]
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent_boot.tc]
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish_boot.tc]
6243	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes_boot.tc]
6243	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent + boot (legacy)	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent_boot.tc]
6300	AIX {smd5}	{smd5}a5/yTL/u\$VfvgYHx1uIXIZYBocQpQY0
6400	AIX {ssha256}	{ssha256}06\$aJckFGJAB30LTe10\$ohUsB7LBPlgclE3hJg9x042DLJvQyxVCX.nZZLEz.g2
6500	AIX {ssha512}	{ssha512}06\$bJbkFGJAB30L2e23\$bXiXjyH5YIyoWwmEVwq67nCU5t7Gly9HkCzrodRCQCx3r9VvG98o7O3V0rCvR3LPPGuHqT5LLn0oGCu1..
6600	!Password, agilekeychain	https://hashcat.net/misc/example_hashes/hashcat.agilekeychain [https://hashcat.net/misc/example_hashes/hashcat.agilekeychain]
6700	AIX {ssha1}	{ssha1}06\$bJbkFGJAB30L2e23\$dCESGOsP7jaIIA1QAcmGeG.kr
6800	LastPass + LastPass sniffed <sup>4</sup>	a2d1f7b7a1862d0d4a52644e72d59df5:500:lp@trash-mail.com
6900	GOST R 34.11-94	df226c2c6dcb1d995c0299a33a084b201544293c31fc3d279530121d36bbcea9
7000	FortiGate (FortiOS)	AK1AAECAwQFBgcICRARnGgqeC3is8gv2xWWRony9NjNdGe=
7200	GRUB 2	grub.pbkdf2.sha512.10000.7d391ef48645f626b427b1fae06a7219b5b54f4f02b2621f86b5e36e83ae492bd1db60871e45bc07925cecb46ff8ba3db31c723c0c6acbd4f06f60c5b246ecbf.26d59c52b50df90d043f070bd9cbcd92a74424da42b3666fdb08f1a54b8f1d2

[illegible]

Hash-Mode	Hash-Name	Example
11400	SIP digest authentication (MD5)	\$sip\$*192.168.100.100*192.168.100.121*username*asterisk*REGISTER*sip*192.168.100.121**2b01df0b****MD5*ad0520061ca07c120d7e8ce696a6df2d
11500	CRC32 <sup>5</sup>	c762de4a:00000000
11600	7-Zip	\$7z\$0\$19\$0\$salt\$8\$f6196259a7326e3f0000000000000000\$185065650\$112\$98\$f3bc2a88062c419a25acd40c0c2d75421cf23263f69c51b13f9b1aada41a8a09f9adeae45d67c60b56aad338f20c0dcc5eb811c7a61128ee0746f922cdb9c59096869f341c7a9cb1ac
11700	GOST R 34.11-2012 (Streebog) 256-bit, big-endian	57e9e50caec93d72e9498c211d6dc4f4d328248b48ecf46ba7abfa874f666e36
11750	HMAC-Streebog-256 (key = \$pass), big-endian	0f71c7c82700c9094ca95ee3c8d04cc283b538bec49428a9ef8da7b34effb3ba:08151337
11760	HMAC-Streebog-256 (key = \$salt), big-endian	d5c6b874338a492ac57ddc6871afc3c70dcfd264185a69d84cf839a07ef92b2c:08151337
11800	GOST R 34.11-2012 (Streebog) 512-bit, big-endian	5d5bdba48cf89ee6c0a0e11023540424283e84902de08013aeeb626e819950bb32842903593a1d2e8f71897ff7fe72e17ac9b8a8ce1d1d2f79c4359ea63bdc3
11850	HMAC-Streebog-512 (key = \$pass), big-endian	be4555415af4a05078dcf260bb3c0a35948135d3dbf93f7c8b80574ceb0d71ea4312127f839b7707bf39ccc932d9e7cb799671183455889e8dde3738dfab5b6:08151337
11860	HMAC-Streebog-512 (key = \$salt), big-endian	bebf6831b3f9f958acb345a88cb98f30cb0374cff13e6012818487c8dc8d5857f23bca2caed280195ad558b8ce393503e632e901e8d1eb2ccb349a544ac195fd:08151337
11900	PBKDF2-HMAC-MD5	md5:1000:MTg1MzA=:Lz84V0crX8d699Edsj34PP98+ff4f350rTz4kHAIHoAjs=
12000	PBKDF2-HMAC-SHA1	sha1:1000:MzU4NTA4MzZlZnA1MDQ=:19ofiy+ahBXhvkDsp0j2ww==
12100	PBKDF2-HMAC-SHA512	sha512:1000:ODQyMDEwNjQyODY=:MKaHNWXUsuJB3IEwBHbm3w==
12150	Apache Shiro 1 SHA-512	\$shiro1\$SHA-512\$1024\$WobjG5jBUhsMdaLomMDow== \$9uptGJ24vzZCqZi55F77NjXjUxGivRk5aCmAwIrV1vwDmFM4akE6Hmd23Aj8ANLSUdEkHLZ6SnoitZbOsoQNQ==
12200	eCryptfs	\$ecryptfs0\$1\$7c95c46e82f364b3\$60bba503f0a42d0c
12300	Oracle T: Type (Oracle 12+)	78281A9C0CF626BD05EFC4F41B515B61D6C4D95A250CD4A605CA0EF97168D70EBCB5673B6F5A2FB9CC4E0C0101E659C0C4E3B9B3BEDA846CD15508E88685A2334141655046766111066420254008225
12400	BSDi Crypt, Extended DES	_9G..8147mpcfKT8g0U.
12500	RAR3-hp	\$RAR3\$*0*45109af8ab5f297a*aadbfc5385d7a40373e8f77d7b89d317
12600	ColdFusion 10+	aee9edab5653f509c4c63e559a5e967b4c112273bc6bd84525e630a3f9028dcB:153625686678377334574783782810410706883233321141647265340462733
12700	Blockchain, My Wallet	\$blockchain\$288\$5420055827231730710301348670802335e45a6f5f631113cb1148a6e96ce645ac69881625a115fd35256636d0908217182f89bdd53256a764e3352d3bfe68624f4f89bb6de60687ff1ebb3cbf4e253ee3bea0fe9d12d6e8325ddc48cc924666dc017f
12800	MS-AzureSync PBKDF2-HMAC-SHA256	v1;PPH1_MD4,84840328224366186645,100,005a491d8bf3715085d69f934eef7bf19a15ffc2335382d9827910bc32f3506
12900	Android FDE (Samsung DEK)	38421854118412625768408160477112384218541184126257684081604771129b6258eb22fc8b9d080e4e6450f72b98725d7d4fcad6fb6aec4ac2a79d0c6ff738421854118412625768408160477112
13000	RAR5	\$rar5\$16\$74575567518807622265582327032280\$15\$f8b4064de34ac02ecabfe9abd93ed6a\$8\$9843834ed0f7c754
13100	Kerberos 5, etype 23, TGS-REP	\$krb5tgs\$23\$*user\$realm\$test/spn*\$63386d22d359fe42230300d56852c9eb\$891ad31d09ab89c6b3b8c5e5de6c06a7f49fd559d7a9a3c32576c8fed705376cea582ab5938f7fc8bc741acf05c5990741b36ef4311fe3562a41b70a4ec6ecba849905f2385bb3799d92.
13200	AxCrypt 1	\$axcrypt\$*1*10000*aaf4a5b4a7185551fea2585ed69fe246*45c616e901e48c6cac7ff14e8cd99113393be259c595325e
13300	AxCrypt 1 in-memory SHA1 <sup>13</sup>	\$axcrypt_sha1\$b89eaac7e61417341b710b727768294d0e6a277b
13400	KeePass 1 AES / without keyfile	\$keepass\$*1*50000*0*375756b9e6c72891a8e5645a3338b8c8*82acf053e8e1a6cfa39adae4f5fe5e59f545a54d6956593d1709b39cadc7f796*c698bfc7d1b71431d10611e2216ab21*24a63140f4eb3bfd7d59b7694eea38d1d93a43bc3af989755d2b326286cd4d5
13400	KeePass 2 AES / without keyfile	\$keepass\$*2*6000*222*a279e37c38b0124559a83fa452a0269d56dc4119a5866d18e76f1f3fd536d64d*7ec7a06bc975ea2ae7c8dc99e826a308564849b6b25d858cbcc78475af3733f*d477c849bf2278b7a1f626c81e343553*38c8ec186141c2705f2bcb33a473f
13400	KeePass 1 Twofish / with keyfile	\$keepass\$*1*6000*1*31c087828b0bb7036010cae773aacdf*6dc78b4f82ecbcd3b96670cf490914c25ea8c31bc3aeb3fc56e65fac16d721f*a735ec88c01816bc66200c8e17ee9110*08334be8523f4b69bd4e2328db854329bfc81e2ea5a46d8ccf3bccf7c03d879d*
13400	Keepass 2 AES / with keyfile	\$keepass\$*2*6000*222*15b6b685bae998f2f08c909dc554e514f2843fbac3c7c16ea3600cc0de30212*c417098b445cfc7a87d56ba17200836f30208d38f75a4169c0280bab3b10ca2a*0d15a81eadccc58b1d3942090cd0ba66*57c4aa5ac7295a7da10f8b2f2d2bf
13500	PeopleSoft PS_TOKEN	b5e335754127b25ba6f99a94c738e24cd634c35a:aa07d396f5038a6cbdede88d78d1d6c907e4079b3dc2e12fddee409a51cc05ae73e8cc24d518c923a2f79e49376594503e6238b806bfe33fa8516f4903a9b4
13600	WinZip	\$zip2\$*0*3*0*e3222d3b65b5a2785b19d231e39ff9de*1320*e*19648c3e063c2a9ad3ef08ed833*3135c79ecb86cd6f48fc*\$/zip2\$
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes_13711.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes_13711.vc</a> ]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES-Twofish (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes-twofish_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes-twofish_13712.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes-twofish_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_aes-twofish_13712.vc</a> ]
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent_13711.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent_13711.vc</a> ]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-aes_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-aes_13712.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-aes_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-aes_13712.vc</a> ]
13713	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-twofish-aes_13713.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-twofish-aes_13713.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-twofish-aes_13713.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_serpent-twofish-aes_13713.vc</a> ]
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish_13711.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish_13711.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish_13711.vc</a> ]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish-serpent_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish-serpent_13712.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish-serpent_13712.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_ripenmd160_twofish-serpent_13712.vc</a> ]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc</a> ]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + AES-Twofish (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc</a> ]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc</a> ]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc</a> ]
13753	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-Twofish-AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc</a> ]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + Twofish (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc</a> ]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + Twofish-Serpent (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc</a> ]
13721	VeraCrypt PBKDF2-HMAC-SHA512 + AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc</a> ]
13722	VeraCrypt PBKDF2-HMAC-SHA512 + AES-Twofish (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc</a> ]
13721	VeraCrypt PBKDF2-HMAC-SHA512 + Serpent (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc</a> ]
13722	VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-AES (legacy)	<a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc</a> [ <a href="https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc">https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc</a> ]

[illegible]



Hash-Mode	Hash-Name	Example
20400	Python passlib pbkdf2-sha1	\$pbkdf2\$1310000r5WythYixPgfQ2jt3buXcg\$8Kdr.QQEOaZIXNOrrru36l/.6Po
20500	PKZIP Master Key	f1eff5c0368d10311dcfc419
20510	PKZIP Master Key (6 byte optimization) <sup>17</sup>	f1eff5c0368d10311dcfc419
20600	Oracle Transportation Management (SHA256)	otm_sha256:1000:1234567890:SSQ9Kc0ETy6ZPYQu+JYY6o0FJaJuZzaSinggmzU8PC4=
20710	sha256(sha256(\$pass).\$salt)	bfede293ecf653921a17305ea218b9f3f608953130405cda9eaba6fb6250f824:7218532375810603
20712	RSA Security Analytics / NetWitness (sha256) *	6F48F44C46F5ADC534597687B086278F0AAF7D262ADDB3978562A7D55BBDFA67:MDAwMzY1NzYwODI4MQ==
20720	sha256(\$salt.sha256(\$pass))	bae9edada8358fcebcd811f7d362f46277fb9d488379869fba65d79701d4d8b8b:869dc2ed80187919
20730	sha256(sha256(\$pass.\$salt))	ad66bdc0841d7e08d96c03de271ce14e77de078746b535adb9fd4b6ccb2fa517:7218532375810603
20800	sha256(md5(\$pass))	74ee1fae245edd6f27bf36efc3604942479fcee6badab5dc5c0b538c196eb0f1
20900	md5(sha1(\$pass).md5(\$pass).sha1(\$pass))	100b3a4fc1dc8d600d9bf40688d8b740a
21000	BitShares v0.x - sha512(sha512_bin(pass))	caec04bdf7c17f763a9ec7439f7c9abda112f1bfc9b1bb684fef9b6142636979b9896cfc236896d821a69a961a143dd19c96d59777258201f1bbe5ecc2a2ecf5
21100	sha1(md5(\$pass.\$salt))	aade80a61c6e3cd3cac614f47c1991e0a87dd028:6
21200	md5(sha1(\$salt).md5(\$pass))	e69b7a7fe1bf2ad9ef116f79551ee919:baa038987e582431a6d
21300	md5(\$salt.sha1(\$salt.\$pass))	799dc7d9aa4d3f404cc2a14936dbdcde:68617368636174
21310	md5(\$salt1.sha1(\$salt2.\$pass)) *	dc91b5a658ef4b7d859e90742f340e24:708237:d270e9eea5802e346bcaa9b229f37766
21400	sha256(sha256_bin(\$pass))	0cc1b58a543f372327aa0281e97ab56e345267ee46feabf7709515debb7ec43c
21420	sha256(\$salt.sha256_bin(\$pass))	5934ea4d670c13a71155faba42056b2525f71bdc9215d31108990c11bf3d98e3:9267971356270099311432765354522635185291064175409115041569
21500	SolarWinds Orion	\$solarwinds\$0\$admin\$fj4EBQewCQUZ71YHlQl8Uj9kQ5Bb3m7N4u0CrrkKOUJ9rbbaNsRBMXO7oWx9KqL3sCzwncvPZ9hyDV9QCFTg==
21501	SolarWinds Orion v2	\$solarwinds\$1\$3pHkk55NTYpAeV3EJcAww===\$N4i12PxXX/bTZzswlQIKrp0wvfZ5aN9hpyiR896g2MJTPO1Q7BK1Eht8Vh14kXq/42Vn2zp3qYeAkRuqsuEw==
21600	Web2py pbkdf2-sha512	pbkdf2(1000,20,sha512)\$744943\$c5f8cdef76e3327c908d8d96d4abdb3d8caba14c
21700	Electrum Wallet (Salt-Type 4)	\$electrum\$4*03eae309d8bda5cdcbddaae8145469193152763894b7260a6c4ba181b3acd2e5653*8c594086a64dc87a9c1f8a69f646e31e8d3182c3722def4427aa20684776ac26092c6f60bf2762e27adfa93fe1e952dc8d6362224b9a371953aa3a2edb596ce5eb4c
21800	Electrum Wallet (Salt-Type 5)	\$electrum\$5*02170fee7c35f1ef3b229edc90fb0d793b688a0d6f41137a97aab2343d315cce16*94cf72d8f5d774932b414a3344984859e43721268d2eb35fa531de5a2fc7024b463c730a54f4f6229dd9fede5034b19ac415c2916e9c16b02094f845795df0c397ff76d5
21900	md5(md5(md5(\$pass.\$salt1)).\$salt2)	2c749af6c65cf3e82e5837e305627f75:59331674906582121215362940957615121466283616005471:17254656838978443692786064919357750120910718779182716907569266
22000	WPA-PBKDF2-PMKID+EAPOl <sup>1</sup>	WPA*01*4d4fe7aac3a2cecab195321ceb997d04*f6c90c158264*f47478f79f4*686173686361742d6573736964***
22000	WPA-PBKDF2-PMKID+EAPOl <sup>1</sup>	WPA*02*024022795224bffca545276c3762686f*6466b38ec3fc*225ced49b7aa*54502d4c494e4b5f484153484341545f54455354*10e3be3b005a629e89de088d6a2fdc489db83ad4764f2d186b9cde15446e972e*0103007502010a00000000000000000000148ce
22001	WPA-PMK-PMKID+EAPOl <sup>18</sup>	WPA*01*5ce7be9e7a1bbfeb2822ae627b726d5b*27462da350ac*accd10fb464e*686173686361742d6573736964***
22100	BitLocker	\$bitlocker\$1\$1656f972989ddc209f1eccf07313a7266a2\$1048576\$12\$3a33a8eaff5e6f81d907b591\$60\$316b0f6d4cb445fb056f0e3a0633c413526ff4481bbf588917b70a4e8f8075f5ceb45958a800b42cb7ff9b7f5e17c6145bf8561ea86f52d3592059fb
22200	Citrix NetScaler (SHA512)	2f9828ade42ce148175dc3b4d8b5916dae5211eee49886c3f7cc768f6bf9f2be982a5ac2f672a0223999bfd15349093278ad1f26276e8b61dacf5572b3f93d0b4fa886ce
22300	sha256(\$salt.\$pass.\$salt)	755a8ce40cf0baee41d714aa35c9c0106608f718f973eab0065785f0027:11265
22400	AES Crypt (SHA256)	\$aescript\$1*efc648908ca7ec727f37f3316dfd885c*eff5c87a35545406a57b56de57bd0554*3a66401271aec08cbd10cf2070332214093a33f36bd0dced4a4bb09fab187184*6a3c49ea0caf619190dc4bdadb787e73b1df244c51780beef912598bd3bdf7e
22500	MultiBit Classic .key (MD5)	\$multibit\$1*e5912fe5c84af3d5*5f0391c219e8ef6dc06505b1f6232858f5bca4739c2b471d45dd0bd8345334de
22600	Telegram Desktop < v2.1.14 (PBKDF2-HMAC-SHA1)	\$telegram\$1*4000*913a7e42143b4eed0fb532dacf04e3a0eae036ae66dd02de76323046c575531*cde5f7a3bda3812b4a3cd4df1269c6be18ca7536981522c251cab531c274776804634cdca5313dc8beb9895f903a40d874cd50dbb82e5e4d8f264820f32fe2111a5
22700	MultiBit HD (scrypt)	\$multibit\$2*2e311aa2cc5ec99f072036cca8a2d1938*e3ad3782e7f92d66a3cdfaeca43a46be29*5d1cabdd4fa50ba125f88c47027ffffb
22800	Simpla CMS - md5(\$salt.\$pass.md5(\$pass))	86d173f13213d1e48bce9647bdc306d5:8e86a279d6e182b3c811c559e6b15484
22911	RSA/DSA/EC/OpenSSH Private Keys (\$0\$)	\$sshng\$0\$8\$7532262427635482\$1224\$e1b1690703b83fd0ab6677c89a00dfce57fc2f345ebd2b2993bf0d8bb267449d08839213dc234dd23c7a181077e0008ced2700a161c4352ce5574b9758926f09106157715b6d756cf6dd844e473c6bb3c2b591cddb684394a
22921	RSA/DSA/EC/OpenSSH Private Keys (\$6\$)	\$sshng\$6\$8\$7620048997557487\$1224\$13517a1204dc69528c474ef5cbb02d548698771f2a607c04ea54eb92f13dedba0f2185d2884b4db0c95ce6432856108ea2db858be443e0f8004ffcd60857e4fff1e42b17f056998ec5f96806a06e39cc66d7ef4ce8ae625b7b2fe
22931	RSA/DSA/EC/OpenSSH Private Keys (\$1, \$3\$)	\$sshng\$1\$16\$14987802644369864387956120434709\$1232\$ffa56007ed83e49fd439cf776a9dec9656521385073bf17931a2c6503c93917e560cc98940c8dcdfc2709265e9ba20783a3bacc63423a98a40ea8999182613e1f5a80084719ca0e5c390299de1ea947df
22941	RSA/DSA/EC/OpenSSH Private Keys (\$4\$)	\$sshng\$4\$16\$01684556100059289727957814500256\$1232\$b04d45fdff02a9ca91cbc9c53f9e59956822c72c718929aca9251cff9ac48e48c490b7b6b6043df3a70cf5fbc2f358b0e8b70d39155c93032b0fd79ec68f6cb8b7de8422ec95cb027a9eaacc453b0b99b
22951	RSA/DSA/EC/OpenSSH Private Keys (\$5\$)	\$sshng\$5\$16\$52935050547964524511665675049973\$1232\$febee392e88cea0086b3cdefd3fec8aedd6011ca4ca9884ef9776d09559109c328fd4daef62ea0494a588d90d4617bc0348cc1205ae140e5bdca4e81bf7a8ff4fcc9954d3548ba9a0d143a504750d04d41
23001	SecureZIP AES-128	\$zip3\$*0*1*128*0*b4630625c92b6e7848f6fd86*fdf2f62611b3d02d2c7e05a48dad57cd93b0bac1362261ab533807afb69db5667aa6e350320130b5cbf27c55a48cf075739654ac312f1cfc537149557fc88a92c7e3dde8d23edd2b39036e88092a708b7e818bf1
23002	SecureZIP AES-192	\$zip3\$*0*1*192*0*53ff2de8c280778e1e0ab997*603eb37dbab9ea109e2c405e37d8cae1ec89e1e0d0b9ce5bf55d1b571c343b6a3df35fe381c30249cb0738a9b956ba8e52dcf5552894296300446a771032776c811ff8a71d9bb3c4d6c37016c027e41fea2d157d5b0
23003	SecureZIP AES-256	\$zip3\$*0*1*256*0*39bdf47d6152a0214d7a967*65ff418fb3b1198ccdef0327c03750f328d6d287e0e04c46f733b92a6ef40a74bb11b5afad61a6c39b27d8dbd7961e96af7b470c36f186fd3cfe059107021c9dea0cf20669d2f727eeca71f18f5b0b6ee1f702b648b
23100	Apple Keychain	\$keychain\$*74cd1efd49e54a8fdc8750288801e09fa26a33b1*66001ad4e0498dc7*5a084b73149717b728cb551ac40b2e50b7b5bd8b8496b902efe7af07538863a45394ead8399cec581681f7416003349cc7
23200	XMPD SCRAM PBKDF2-SHA1	\$xmpd-scram\$0\$4096\$32b9bc1467455fd9886fcd5d15200601735e159e807d53a1c80853b570321aaeebc\$8301c6e0245e4a986dec64a9b1803afb1854d9712
23300	Apple iWork	\$iwork\$2\$1\$1\$4000\$b31b7320d1e7a5ee\$01f54d6f9e5090eb16fef2b05f8242bc\$69561c985268326b7353fb22c3685a378341127557bd2bbea1bd10afb31f2127344707b662a2c29480c32b8b93dea0538327f604e5aa8733be83af25f370f7ac
23400	Bitwarden	\$bitwarden\$2*100000*2*bm9yZXBSuUBoYXNoY2F0Lm5ldA==*+v5rHxYydSRUDlan+4pSoI/QwAgEhdmvIvb+exQX+fg=
23500	AxCrypt 2 AES-128	\$axcrypt\$*2*10000*6d44c6d19076bce9920c5fb76b246c161926ce65abb93ec2003919d78898aad5bc6e5754201ff25d681ad89fa2861d20ef7c3fd7bde051909dfef8adcb50491*68f78a1b80291a42b2a117d6209d3eb3541a8d47ed6b970b2b8294b2bc78347fc2
23600	AxCrypt 2 AES-256	\$axcrypt\$*2*10000*79bea2d51670484a065241c52613b41a33bf56d2dda9993770e8b0188e3bfb881bea6552a2986c70dc97240bf091df2eecfa2c7044998041b3bfbd58369cfef79*4982f7a860d4e92079b677c1f89304aa3a2d9ab8c81efaff6c78a12e2873a3a23ef
23700	RAR3-p (Uncompressed)	\$RAR3\$*1*e54a73729887cb53*49b0a846*16*14*1*34620bcca8176642a210b1051901921e*30
23800	RAR3-p (Compressed)	\$RAR3\$*1*ad56eb40219c9da2*834064ce*32*13*1*eb47b1abe17a1a75bce6c92ab1cef3f4126035ea95deaf08b3f32a0c7b8078e1*33
23900	BestCrypt v3 Volume Encryption	\$bcvce\$3\$08\$234b8182cee7098b\$35c12ef761ae88175c4c222da3558310a0075bc7a06ecf46746d149c02a81fb8a97637d1103d2e13dd5deaf982889594b18c12d7ca18a54875c5da4a47f90ae15ab94b8e3ed9e3c793d872a1b5ac35cfd66c221d6d0853e9ff2e0l
24000	BestCrypt v4 Volume Encryption	\$bcvce\$4\$08\$323631353538332323303436303939353438323393530\$9f7892b8324b1d8cd36b5f2f8705b407131261620a89370db8369046646f5f82b96780453948db53b04928ae0cc47066f13454b34e31b58ea4ce943bcb414fcb87f17205a31a896df182
24100	MongoDB ServerKey SCRAM-SHA-1	\$mongodb-scram\$*0*dXNlcg==*10000*4p+fttKp18hQqrVrUOGow==*J9rlrPUQ2bVgZ2kXvRmZrppsQNW=
24200	MongoDB ServerKey SCRAM-SHA-256	\$mongodb-scram\$*1*dXNlcg==*150000*qYaA1K1ZZSSpWfY+yqShlCtN0XVcrNipxiYCLQ==*QWVry9aTS/JW+y5CWCBR8lCEH9K/R/D4je6n0c0oPer8=
24300	sha1(\$salt.sha1(\$pass.\$salt))	94520b02c04e79e08a75a84c2a6e3ed4e3874fe8:ThisIsATestSalt
24410	PKCS#8 Private Keys (PBKDF2-HMAC-SHA1 + 3DES/AES)	\$PEM\$1\$4\$5f662bd8383b4b40\$2048\$2993b585d3fb2e7b235ed13d90f637e2\$11232\$73984f2cba4d5e1d327a3f5a538a946099976ab865349091a452a838dc6855b6e539f920a078b14d949d8c739ea7ce26769dc0ba1619a9c0ee1864d1cfca9e61ddf6d9582439f2



[illegible]

Hash-Mode	Hash-Name	Example
28800	Kerberos 5, etype 17, DB	\$krb5db\$17\$test\$TEST.LOCAL\$c1c41586d6c060071e08186ee214e725e
28900	Kerberos 5, etype 18, DB	\$krb5db\$18\$test\$TEST.LOCAL\$266b5a53ad663cf69174f309acada8e467c097c7973699f86286a6cf1a6c7
29000	sha1(\$salt.sha1('utf16le(\$username)'),'.'utf16le(\$pass)))	339b5eaa53f28516008e9ca710857d3a4785b6fc:8ca064ff42fcb5a8f0692544b8dd3d3054bd73fe9afaa08c6b6b310538cc9a7f:757365726e616d65
29100	Flask Session Cookie (\$salt.\$salt.\$pass)	eyJ1c2VybmFtZS12l6lmlkFbWuIn0.YjdgRQ.1OTiFlP0D0H9wXsu_q\$0aywAJVD8
29200	Radmin3	\$radmin3\$75007306050072006e061006d06500*c63bf695069d564844c4849efdf6d41f1bc5f3a7d8fe27c5f20545a238398fa*0062fb848c21d606baa0a91d7177daceb69ad2f6d090c2f1b3a654cfb417be66f739ae952f5c7c5170743459daf854a2268478b24f6
29311	TrueCrypt RIPEMD160 + XTS 512 bit	\$truecrypt\$8791496f71437a67fb06f0f2b7f420b3dd78784ed7673951daa47c7ca235e75c22ec8d959d6b67f7eedefad61e6ad0d380793721a8e7215e415671e8c7b3dbed6453a114e6db89a52be9a9c1698a9c698f1e37f80d7afaf0ef8a2db6e5f5
29312	TrueCrypt RIPEMD160 + XTS 1024 bit	\$truecrypt\$d6e1644acd373e6fdbccaaeb0c400d22aa0b02e2a6649e065ad50f91e2f81fc5e1600d1cdf3b4ee72a7326a9a28d336ec5adf2d45661e1a609dd9941279f\$d64a9c513dfb0192734fc1e1014cdd0a399e89a0860c4077463c18609f5128254edd998adb1
29313	TrueCrypt RIPEMD160 + XTS 1536 bit	\$truecrypt\$3916e924d246e5ceb17b140211ff57b67150b3dee53fa475261d465b0ee3e56ee820e6ba3958d84c61508f028b2a112e9005877784e07deddcf310d01ba817150b620533790456d20d17c8fda849d93bfbef41509b931a417b82d68ed9b0cb9641b79a5bf
29321	TrueCrypt SHA512 + XTS 512 bit	\$truecrypt\$5ebff6b4050aaa3374f9946166a9c4134dd3ced0f1176da2fb103909d20e8b3c9b95cbbd61a7ad05411a143ad6254e059e924d78bab6a0463e71cf7c3109b7\$ef4e837bf6d7a548dd833c451b59d1132098f4dc6ff19c6cb921b1de3bd0aa675e0478a051
29322	TrueCrypt SHA512 + XTS 1024 bit	\$truecrypt\$9f207bec0eded18a1b2e324d4f05d2f3f0bd1aeb43db65d33242fa848c960fad4c14d04c553e06ad47e7e394d16e0a6544d35fb0b2415b0d060bc5f37e42a58\$b1681e991e2ec0b5773f6e8e5766e5fcc7335b19dd068d1f2060085ecda8eba366ff152199
29323	TrueCrypt SHA512 + XTS 1536 bit	\$truecrypt\$721a74f0d2b88de8e11f1a203b04ffa97a1f5671623c6783f984cc7c55e0a66595a75f3df52f402898aaad68d048c44f8b1c26832b589687dad082f3e4e\$0f23c7caba28118f21a4cb8b8f32b25914ff4022e7c4c8cdd45411801c7c6bde4033badbbcd8c296
29331	TrueCrypt Whirlpool + XTS 512 bit	\$truecrypt\$c753d4153414b63285e701e52cd99e148c6ccc4508132f8cb41862d0a0ac9ea16274285ac261c339c1508ee9f9ea54c33e382458662913678f2a88a84959a6\$78e238973985ec670d50252677430587ee28b72bfa5edfb7f9c40b734ba8a54a3662642a
29332	TrueCrypt Whirlpool + XTS 1024 bit	\$truecrypt\$e9e503972b72dee996b0bfced2f003a54b4d2399e3586520cf1f69475ba32aff564e0e04a505af95ce15220f558ae815e94ce4953882a8299e3ffbf12e9bd\$62bf8e2c41c0a8337ce20d45715440cc83e394200d351c5b04be5b70fa11b8467320a091a1d
29333	TrueCrypt Whirlpool + XTS 1536 bit	\$truecrypt\$d67d6725cc4c190a7e96307df69d413356a4ad17b44252a55bf1730f27820f92df9f20f3e855d856eb5255927153f987348789666c8e563e366a09e68a8126b11\$c25ac817b2706dde5ccc3946e64332b1b41b928985c1a637559ead5b4fecac74ff0d625eff
29341	TrueCrypt RIPEMD160 + XTS 512 bit + boot-mode	\$truecrypt\$2b5da9924119fde5207f12ba3c3e4974460416e8465f21214949908c2fca0a4753b581f26625d11c43f49bdeb1c95bc3e17629d7e19ff6b6175e5feab90a4c\$fd670194f95d578266f3f546e1b82dc0efc2bb4438e19c3f6d7a92825a7625d88ec6286ab4e
29342	TrueCrypt RIPEMD160 + XTS 1024 bit + boot-mode	\$truecrypt\$debcc3e7a7b2acb4c7eaa4ac86fd6431da1d95794f7f60b31f07b3d36e65099daca9e4ae569114b3cb6e64d707b6206a2ab6b31ab0c17b356da3719d0e2fa4c05f80349763970855d4c83b02a967b2b969f1bf6f3e4fdbcc37cf6d7023efbe87bfdb5ffdf8fe376
29343	TrueCrypt RIPEMD160 + XTS 1536 bit + boot-mode	\$truecrypt\$5e6628907291b0b74a44f3a23fb0693abc71c4379c3a3cc0eafba40036bbdbafdede179e04484aca0f5b6ec7c7e8abae1d6836be6590838bf9027da93ba77d\$076b9a557c958159c5cdcdfb70823b7e324bd99b40a8f39410f6afd279df3493b58b9ffcc41b
29411	VeraCrypt RIPEMD160 + XTS 512 bit	\$veracrypt\$531aca1fa6db5118506320114cb11a9f00dade1720533fc12982b28ec71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6befbcb6001c\$df025f816a0aa1baf3b9b51be00fadab451f9b9dfc381115eeceef778e29a8761f853b7c99e
29412	VeraCrypt RIPEMD160 + XTS 1024 bit	\$veracrypt\$531aca1fa6db5118506320114cb11a9f00dade1720533fc12982b28ec71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6befbcb6001c\$df025f816a0aa1baf3b9b51be00fadab451f9b9dfc381115eeceef778e29a8761f853b7c99e
29413	VeraCrypt RIPEMD160 + XTS 1536 bit	\$veracrypt\$531aca1fa6db5118506320114cb11a9f00dade1720533fc12982b28ec71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6befbcb6001c\$df025f816a0aa1baf3b9b51be00fadab451f9b9dfc381115eeceef778e29a8761f853b7c99e
29421	VeraCrypt SHA512 + XTS 512 bit	\$veracrypt\$2be25b279d8d2694e0ad1e5049902e717f1bdf741bbd678bf307d510741b649d78c54dca46fb2c92723af9a40769b29566d445ec232af5bdfd91481ee41256\$e56b778398ebf55265077bab405901218ac7933f74073f1208f1de72aacc5da4e07d5f83ca
29422	VeraCrypt SHA512 + XTS 1024 bit	\$veracrypt\$37e6db10454a5d74c1e75eca0b9c706e7ac032357e4b6da4315c0174cf9780f92210dfc0a3b77997969f2890828d44aecc317dc40fb3162915998cc703ae9257\$a950a1603342913900052011a7fa85fb0b1fd4489f17237ac1a8bbfd644e871ab95a4019f1
29423	VeraCrypt SHA512 + XTS 1536 bit	\$veracrypt\$442fd2b1742f60f88023d825b29c5a70c6a4c8f47d5887632a7b4a84af72af138cfad6b8339ae84271f72c0c4eeef04129129a2e0a7d8677d8da4c3227a5be182a26d9433076b44d58b14f52766cf0e4baeb473a789180660d62e42bbca7c042379:
29431	VeraCrypt Whirlpool + XTS 512 bit	\$veracrypt\$48f79476aa0aa83278a9056e61450f4e2883c9e9669142f2e2f022c2f85303b897d088dea03d64329f6c402a56fed05b3919715929090a25c8ae84c67dbdb36\$4ebfa3e9ccc0b391c130a4c3dd6495a1d6eb5d2eab72f8009096f7475ecb736b3225b6da1
29432	VeraCrypt Whirlpool + XTS 1024 bit	\$veracrypt\$1b721942019ebe8cedddbed7744a0702c0e053281a467e0ed69bf875c7406407d72eb8f2aea21270e41898c0a2c14382f86e04c15e7bc019d1d9d813eeabe0a\$e5173e3bd1d927859d3e6de1006335a5184ae12b4c8dc2db2b1cd1785063152a776f4dc5c
29433	VeraCrypt Whirlpool + XTS 1536 bit	\$veracrypt\$5eb128daef63eff7e6db6aa10a8858f89964f7844acca68df82ebb2e73866fa75e3b7a53f9d2ff1ecdd1f4dc09e9c0fd51f60d11b1992cd2971b4889edfc89\$20bbf346fd7693f75b617cb9e4a3ce6ff45021068fc13453b130f2eb1d732e383ecc61dbabec2
29441	VeraCrypt RIPEMD160 + XTS 512 bit + boot-mode	\$veracrypt\$28c2997055182d2cb523346df8119a0318ab94aa715ee6e68c89f83690b443221a138cfad6b8339ae84271f72c0c4eeef04129129a2e0a7d8677d8da4c3227a5be182a26d9433076b44d58b14f52766cf0e4baeb473a789180660d62e42bbca7c042379:
29442	VeraCrypt RIPEMD160 + XTS 1024 bit + boot-mode	\$veracrypt\$a3c0fa44ec59b7f3a3eed64bf70b8a60623664503eeb972eb51fa25ee921d813f8e45d3e1ab1c0088a62482bb78c6e07308d2308d366831505b0cb02fe214fba\$c8a51cf9be2ada3c46045afa7df810f2e7b57792150de63b111a9aa78d70e25d8323cd6901
29443	VeraCrypt RIPEMD160 + XTS 1536 bit + boot-mode	\$veracrypt\$1a8c0135fa94567aa866740cb27c5b9763c95be3ac0b7b5c744a36e48c08ae38d6d06ae5db926c64d05295cef134fb4d8eaa96a7b5673a1439f55c8ab829390a\$e945bab4c4e6463f3aa33dcfd721c1bcf4051af13da96a2601a06d08c8be043a7a4f0394b2l
29451	VeraCrypt SHA256 + XTS 512 bit	\$veracrypt\$b8a19a54441e4540172595ae7f9a6616f504799b40a407edfb69d40534e93f0b3d3187876f0b7a21739b3a9b0b2bd4752eac4d2021e65a2a9413cc389964fad4\$e6c2d37f337eb3fe3c75909fe9911609d084fb8c09543f949e738fc2fca4825ca5f1e08678a
29452	VeraCrypt SHA256 + XTS 1024 bit	\$veracrypt\$c13197f32dc5b72b4d604274a7a4a3f86b2cb0ca0020f58c5125b33c5a5e8a5665afa95ce15cb127c2f6d542f963c7eaddb71a07518d6432331041c457d2794d0aa505f794153b52624441271185d386833fbaf0e880c515b44f583d0d
29453	VeraCrypt SHA256 + XTS 1536 bit	\$veracrypt\$f421bdc1087b8319c12d84a680ceab0102e8e41c9cffe76dbe0215drcfb7b543f3e1bbdd099e88646823dae5bad8468b72436961ea8e0449a6b92b8dba7b9b\$a1fe215e997ec3be2ee5eb3bd4d7c41d50998df2f88340f4bf66270f72b5ce666e7d5ca7847a
29461	VeraCrypt SHA256 + XTS 512 bit + boot-mode	\$veracrypt\$c8a5f07efc320ecd979ac2c5b911b0f7ee688f859890dd3fa39b4808eb3113219e2bf1517f46a20feb2a86a3f3e997c80361132262bc0dacb6e9f7088bec9f5689a0b989ad9d4cc847170422ecd3384c9ee5ccf813af8aef8ba4d2e6a993c99032337032b8347:
29462	VeraCrypt SHA256 + XTS 1024 bit + boot-mode	\$veracrypt\$6bb6eeff1af555b2b2849ef1fc9c90c08705010efa6443581111216b3e145201374bb8e626e49da4c4e7ecabb11aa57610063fced3c8a9873b0e1194bd12121d2f6b8a71994c5982049c5471ca7178a55b86cee773e06532b46d68810ede1b18783d7bca5
29463	VeraCrypt SHA256 + XTS 1536 bit + boot-mode	\$veracrypt\$95b22255219378a2828b28a28c9b4f967b4a7a3f86b0d2e856a8f4957c3fb1188b62cb0ca0020f58c5125b33c5a5e8a5665afa95ce15cb127c2f6d542f963c7eaddb71a07518d6432331041c457d2794d0aa505f794153b52624441271185d386833fbaf0e880c515b44f583d0d
29471	VeraCrypt Streebog-512 + XTS 512 bit	\$veracrypt\$444ec71554f0a2989b34bd8a5750ae7b5ed8bb1ccdeadd29120fc030bd5186f312a7fa18ab4f4389d7798e43c073afd1e71dda2052db38dec04a700e8d6b488802\$ead0cf95d6e6ccce8eaf6464baf9a4a6acbbd1a86f826333115b6380bda18cf936150efd6ffc
29472	VeraCrypt Streebog-512 + XTS 1024 bit	\$veracrypt\$0f5da0b17c60e0cd392058752ec29c389b140b54cd1f94de43dcca703b1fd373936e75a500b7f9d4e94e7f214c4696c051be9697792a856ebf9c0f5a598cf8ba\$5621e49c7505eba3b4738acd860b6ed648f52e5b673ae06bb04616de438a090ab19beaa11
29473	VeraCrypt Streebog-512 + XTS 1536 bit	\$veracrypt\$18d2e8314961850f8fc26d2bc6f896db9c4ee301b5fa7295615166552b2422042c6cf6212187ec9c0234908e7934009c23cecd0c4858a7a4deecbc59b50a303\$afdc7d583cde1b0c06f0bf56162ef1d6d8df8f19aadcb395780b3d1d7127faf39910eb10f4:
29481	VeraCrypt Streebog-512 + XTS 512 bit + boot-mode	\$veracrypt\$2bfe472e13388a9c0e74bb0e711a48d62f123df85b09e0350771edc4a0e4f397038a49b9900275c9158145a96b52f95e2f92f73f963c7eaddb71a07518d6432331041c457d2794d0aa505f794153b52624441271185d386833fbaf0e880c515b44f583d0d
29482	VeraCrypt Streebog-512 + XTS 1024 bit + boot-mode	\$veracrypt\$a7a64c7c81bf08527552532cc7049b0d369e2ce20202d7a41ffb94300cb9c7ce2130247f49ace4c1512fc3d1b4289ca965e8eb065b35faee5b8479a4e34c4a\$5269f4ee7f6d20f22fe61b2570d46d0f7b4307f44ba6926f3b44524f0a47be2a0d677d225e2c5c
29483	VeraCrypt Streebog-512 + XTS 1536 bit + boot-mode	\$veracrypt\$0c9d7444e9e64a83e85716378b726f349224b4b4bbf788ce25156c870514226674725be3eebc3f2a2c2ee8adbf8bb3ec1405a333e8e091cec0c5aa77fa9b650\$48ca01d954912bf3a3b1c38c00297a33ea0e014156ce08d9526150c085e5e2776a1faeb27
29511	LUKS v1 SHA-1 + AES	https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_aes_cbc-essiv_128.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_aes_cbc-essiv_128.txt]
29512	LUKS v1 SHA-1 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_serpent_cbc-plain64_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_serpent_cbc-plain64_256.txt]
29513	LUKS v1 SHA-1 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_twofish_xts-plain64_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha1_twofish_xts-plain64_256.txt]
29521	LUKS v1 SHA-256 + AES	https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_aes_cbc-plain64_128.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_aes_cbc-plain64_128.txt]
29522	LUKS v1 SHA-256 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_serpent_xts-plain64_512.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_serpent_xts-plain64_512.txt]
29523	LUKS v1 SHA-256 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_twofish_cbc-essiv_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha256_twofish_cbc-essiv_256.txt]
29531	LUKS v1 SHA-512 + AES	https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_aes_cbc-plain64_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_aes_cbc-plain64_256.txt]
29532	LUKS v1 SHA-512 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_serpent_cbc-essiv_128.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_serpent_cbc-essiv_128.txt]
29533	LUKS v1 SHA-512 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_twofish_cbc-plain64_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_sha512_twofish_cbc-plain64_256.txt]
29541	LUKS v1 RIPEMD-160 + AES	https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_aes_cbc-essiv_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_aes_cbc-essiv_256.txt]
29542	LUKS v1 RIPEMD-160 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_serpent_xts-plain64_256.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_serpent_xts-plain64_256.txt]
29543	LUKS v1 RIPEMD-160 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_twofish_cbc-plain64_128.txt [https://hashcat.net/misc/example_hashes/hashcat_luks_ripemd160_twofish_cbc-plain64_128.txt]
29600	Terra Station Wallet (AES256-CBC(PBKDF2(\$pass)))	67445496c838e96c1424a8dae4b146f0fc247c8c34ef33feffbe1e4412018512wZgTbMeN84XE2LOkWtGvA4Ee4m7PR1IDGIdWUV6S0ZSKRfKx9tImZLt8R0fOzbWu52aU2oA-nrrP6F85fh4eHstwPJwOkwzHWB8b9S=
29700	KeePass 1 (AES/Twofish) and KeePass 2 (AES) - keyfile only mode <sup>32</sup>	\$keepass\$*2*60000*0*02078d460c3873003f22e2ba42b3ac2a9ad9e913efb61349b3f91aac0d0004*c901781373cb6806df4c7b647ba698440f9e9dd68101e6a198e49ab3c10098*c602f182f803671c9445a357eede7*135443633e6d2b6bda314dee0a1e2
29800	Bisq .wallet (scrypt) *	\$bisq\$3*32768*8*6*31d838af87f99cb*5cfb7bf3228d9e8e5881156e17b1866589ffa6b757011e25d1319083595236d2
29910	ENCsecurity Datavault (PBKDF2/no keychain) *	\$encdv-pbkdf2\$1\$121f898edc51ff2b14e6bf4e9256f9e43\$2\$1972489853882254644795101599063579097812661888813652597380052274\$100000

Hash-Mode	Hash-Name	Example
29920	ENCsecurity Datavault (PBKDF2/keychain) *	\$encdv-pbkdf2\$3\$1\$c232aba45699c80b\$473d5dd2e0833ac7\$32\$4454716926322493581114042616371582782202532493983541577898367049\$100000\$9a030124cecc2fef5ca44f83ef6e4c7944f8d7c5234b9000c982e209a92bb5535f4c15be6e9914729eb8
29930	ENCsecurity Datavault (MD5/no keychain) *	\$encdv\$1\$1\$3a427b9ee5851118\$4f52176bb9a1b3b6
29940	ENCsecurity Datavault (MD5/keychain) *	\$encdv\$3\$1\$91b9bab3820c527\$1ff4cb6657adad34d5c9067c4d059879dfce2edeb3999871973422ff5fa868c51b025d07f644187889dc5509ec75d4a120184d619d10d02b138d64ba82f9d0936162c9e64d97771de3e74d6e52e5ab9b900c25fb446e14cbe3ef1fa34
30000	Python Werkzeug MD5 (key = \$salt)) *	md5\$84143\$7f51edecfa6fb401a0b5e63d33fc8c0e
30120	Python Werkzeug SHA256 (HMAC-SHA256 (key = \$salt)) *	sha256\$70108387805\$8b9472281c36c3a693703de0
30420	DANE RFC7929/RFC8162 SHA2-256 *	127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df
30500	md5(md5(\$salt).md5(md5(\$pass))) *	e13bb4b8e5a98db7277df344aa3363cf:28945624531
30600	bcrypt(sha256(\$pass)) / bcryptsha256 *	\$2b\$10\$FxDtpTNaL303lLcWtd6LF02U6Gc63VJ07qycHcfqbQQ71GhO/qSzu
30601	bcrypt(HMAC-SHA256(\$pass))	\$bcrypt-sha256\$v=2,t=2b,r=12\$KSOjON/ciJR86a00N5q61.\$AmWZucQuHk13FGkQWhgMeiFvBfm2GcY
30700	Anope IRC Services (enc_sha256) *	sha256:ab67666e1f91cd38c0ab5bee9c8d2132eca7460354477109a739d4e735b14131:47bcfd0d573653943231df07445da774e5d06465c897ce40578b120bde187e26
30901	Bitcoin raw private key (P2PKH), compressed <sup>33</sup> *	14Fqy5AGRehazZ4NLzxFWy2E4BINdH9Ut
30902	Bitcoin raw private key (P2PKH), uncompressed <sup>34</sup> *	12sLRz1TKPZurKCwVqeT5FkW3Y7usipPbZ
30903	Bitcoin raw private key (P2WPKH, Bech32), compressed <sup>35</sup> *	bc1q926ca6n7wzgm2gfd8xc5p0vu687ngvnknpX74
30904	Bitcoin raw private key (P2WPKH, Bech32), uncompressed <sup>36</sup> *	bc1qq6samcuksd2f6rsc48eu3lkq87zp33vfud0p0t
30905	Bitcoin raw private key (P2SH(P2WPKH)), compressed <sup>37</sup> *	3JqAMRQN3Gd6i8yV3kw7v55RmFxW7iW2Aq
30906	Bitcoin raw private key (P2SH(P2WPKH)), uncompressed <sup>38</sup> *	3PmD8zdrFD8KvLrguVDCP2RJB4Rh35G9Z
31000	BLAKE2s-256 *	\$BLAKE2\$2c719b484789ad5f6fc1739012182169b25484af156adc91d4f64f72400e574a
31100	SM3 *	51227e48ea74827b77fc142c3ec21d25cc42c794e6ac422825cd47ad4ac7913d
31200	Veeam VBK *	\$vbk\$*54731702769149752741495960625996207399688284541933702394775960978730695504382155223405444342855920150089170058956647576461877712*10000*78cf7df8f1ed8bb50bda1129ec8e6810
31300	MS SNTF *	\$sntp-ms\$cf7023381cf6bb474cdcb0a67bdb3\$90773369753681134296214095556710852648962471656669697138784438986103976327367763739445744705380
31400	SecureCRT MasterPassphrase v2	S:"Config Passphrase"=02:ded7137400e0a1004a12f1708453968ccc270908ba02ab0345c83690d1de3d9937587be66ad2a7fe8cc6cb16ecff02e61ac05e09d4f49f284efd24f6b16d6ae3
31700	md5(md5(md5(\$pass).\$salt1).\$salt2)	c7a971e405313d0ecc22e37e8b2424a1:2316355934:478467

\$metamaskMobile\$JV4j2dUDl7n+sujoyQW3Wvg== \$398f9b04c822d36bfcbdd1e68c82d1e8\$auj3J2TwOZ4ev3UIgMNa7VXLh0Nmzr3rDbpXRRrONr4= |

32000	NetIQ SSPR (MD5)	\$sspr\$0\$100000\$NONE\$2c8586ef492e3c3dd3795395507dc14f
32010	NetIQ SSPR (SHA1)	\$sspr\$1\$100000\$NONE\$b3485214da55b038a606a183a560dab7db4ecf1
32020	NetIQ SSPR (SHA-1 with Salt)	\$sspr\$2\$100000\$CxCpGqosk9PkCBcORfP6LjRhVEJK8\$a33283d71c2ecaf4f3017b0a89fecaf2fc879221c
32030	NetIQ SSPR (SHA-256 with Salt)	\$sspr\$3\$100000\$ODk2NDA5Mjc2NDlWmJmWjQyMTQ1NzMz\$7195873d47c7e3627510862e37fe7cab9bc83b91fecb9864841bf80cff92419
32031	Adobe AEM (SSPR, SHA-256 with Salt)	\$sspr\$3\$1000\$F9bbf1381f481427\$a1b45d7eb190cc7f0bf831698cb777207eebbb4b7ea2abd6ff84be539aae62
32040	NetIQ SSPR (SHA-512 with Salt)	\$sspr\$4\$100000\$NzYwnJMyNDc2MTQ2OTE4NTUzODAYODE3\$0ce2e8b8efa4280e6e003d77cb54d45300dff3960c5c073f68303565fe62fe4ff3ada8cee7d3b87d0457335ab0df73c5c64ee1f71ccf6b8bd43a316ecb42ecd4
32041	Adobe AEM (SSPR, SHA-512 with Salt)	\$sspr\$4\$1000\$9ad596c50a5c9acd\$d4cdc3c7d227e3cc57a9c9014b1eff1684808ef40191482cd8ae6e9d7b66211a5f04e4b34f494b0513a5f67b9614c5ff16e95e624a60f41b16b90533f305146e
32050	NetIQ SSPR (PBKDF2WithHmacSHA1)	\$pbkdf2-hmac-sha1\$100000\$7134180503252384106490944216249411431665011151428170747164626720\$990e0c5f62b1384d48cbe3660329b9741c4a8473
32060	NetIQ SSPR (PBKDF2WithHmacSHA256)	\$pbkdf2-sha256\$100000\$MDUzMTE4NjQyNDc5NTQxMjAwMjg1OTYxNjAxNDgzNzc\$bwYpAQ2g5PqdnMj8mJ46mkwQbyztw8gEQqnhDHj48c
32070	NetIQ SSPR (PBKDF2WithHmacSHA512)	\$pbkdf2-hmac-sha1\$2\$100000.0211258841559010919749469547425215185689838310218571790549787198.1659e40e64daf84d635a5f1ed2f5708f6735233bed471994bdc0307b3c5f77597f79bdccd088d1e79357b383809ddfd84379006b49e14f4ff45c449071478777
32300	Empire CMS (Admin password)	5962d4ada95d6493379cd9c05ce7a376:726620866134417802643053384570:6056291339665060317728572165496183
32410	sha512(sha512(\$pass).\$salt)	25d509824028a999f4ee851b5de404bb316b78ae8e974874376484018f58520e082747a7ce9f769bcaccb5f6387356c780f602e23393f12b650a6931e4b9338:21881837027919828109608
32420	sha512(sha512_bin(\$pass).\$salt)	clbade2bd4ebc8db841ac6ab3e0a5035a29619e5b1a6135782b77da5d7fcaccee096f3ddb9ee23b9866378fc2fb19f2c013fed1b7e1fffd18340a4f39238412:789
32600	CubeCart (whirlpool(\$salt.\$pass.\$salt))	a2c0342a2617026fbaeed01130c826cc3f5824279989b43ecc1abfa811ede03fd712efd14a886af6fa74045502f22c9feb1c45a291cf2d7bbe9bb94c388b6403:deadbeef
32700	Kremlin Encrypt 3.0 w/NetDES	\$kgb\$0ab30cf7a52dad93f82a7c454246fc7570224e9f24279791aa2a63bf4
32800	md5(sha1(md5(\$pass)))	7b4f60b54472980e922280e225150dfa
32900	PBKDF1-SHA1	PBKDF1:sha1:1000:cGVuZ3VpbmtlZXBlcg==:J4BrlhXDUHNQ9lPPrWKn4V7Of9Y=
33100	md5(\$salt.md5(\$pass).\$salt)	866244ca1d318292a6f40b60e03fd29c:72219426709
33300	HMAC-BLAKE2S (key = \$pass)	0d541ae24d30aff2627c4d1a910f766088a64809edb46a05d29649a9b944da6c:1234
33400	mega.nz password-protected link (PBKDF2-HMAC-SHA512)	PIAgDU2XVjJl1vxkJgMPf5rkQYUnIH_6WL_sKtlic69mqBKP_O_PDG0Om7BSapL1QoRAgUrz9vzaZmrYnU8t-Au6hteg
33600	RIPEMD-320	8339009b816d4e4c2a6be3c6e1daac6aca69a7670eecd583adfa0db17cc8f08ce35d6c759b038ab
33650	HMAC-RIPEMD320 (key = \$pass)	e740440e7bd65056a90f1aa4eb00e00308a9f1788866b4eacbd46cfc8032301d4e5b3a9d179be044:95454599772294521162217
33660	HMAC-RIPEMD320 (key = \$salt)	345136b13b3a6e52901e2a414efa0cf5fca2fecf8b03279656d3b0f42c30df3006c5ad186494996b:2436077107013929602
33700	Microsoft Online Account (PBKDF2-HMAC-SHA256 + AES256)	\$MSONLINEACCOUNT\$0\$1000\$91869d1d5d3a1df25dd3f0e57bbc226a43641bc03086dc5b6672941fcabce01
33800	WBB4 (Woltilab Burning Board) [bcrypt(bcrypt(\$pass))]	\$2a\$08\$hashcatohohohohohohogek6PN.SfkoXxDIkacAGKFN9AF8nx.Hi

33900	Citrix NetScaler (PBKDF2-HMAC-SHA256)	5567243c55099b6b10a714a350db53beea8be6ac9c247fd40fea7e96d206a9f11fd1c45735556ac2004138640de206d0e1522607ab3c3f92816156d2d7845068e
34000	Argon2	\$argon2id\$v=19\$m=65536,t=3,p=1\$FBMJi4RJbHlykCgoI1KEJA\$2ky5GAdhT1kH4kIgpN/oERE3Taiy43vNN70a3HpIKQU
34200	MurmurHash64A	ef3014941bf1102d:837163b2348dfae1
34201	MurmurHash64A (zero seed)	73f8142b4326d36a
34211	MurmurHash64A truncated (zero seed)	73f8142b
34400	sha224(sha224(\$pass))	b7d9a0e57e6e94e8b87996b81ffa64b05d237c58fff1d7a4e4fe2a77
34500	sha224(sha1(\$pass))	10d302483c927df95abba98d69dcd9608365241d1523a8cc5fcbcedc
34600	MD6 (256)	539a8b63639c94b80e746611c476a684e7cc95235187b2f8b81a188d6dfbf64c
34800	BLAKE2b-256	\$BLAKE2\$b6b163391b3e779dcddb4e6d8fa03e962c29569b430efa5ba014303358557e1
34810	BLAKE2b-256(\$pass.\$salt)	\$BLAKE2\$2b51353016a512b60e587bea98d799c2de243468085ca6cd67f983b2e55bfb67:2353288289
34820	BLAKE2b-256(\$salt.\$pass)	\$BLAKE2\$a4cad0b026ed24adf13fb70ec31d35b02751dcb33354e2c9d20ef3f968748501:3601
35000	SAP CODVN H (PWDSALTEDHASH) isSHA512	{x-isSHA512, 15000}YZH/V2T7zIqMGeWLBarm5Oi3qV9Y8ByXQijD28+bjtLdo7YssXaUBkxMXbS3I4yVlYw97tvYj+vu/L37sg1reDEzODQ4MDY1NzQ1NjQ=
35100	sm3crypt \$sm3\$, SM3 (Unix)	\$sm3\$KTTUB40dW4mRyRfD\$ul2xLiY3FJtbo8sv1R93sAYCkxQCH/6rm51kd5vJYA
35200	AS/400 SSHa1	\$as400\$ssha1\$*QTEST1*7ED7D3694D0A2E40A720D41031B456C09124966E
70000	Argon2id [Bridged: reference implementation + tunings]	\$argon2id\$v=19\$m=65536,t=3,p=1\$FBMJi4RJbHlykCgoI1KEJA\$2ky5GAdhT1kH4kIgpN/oERE3Taiy43vNN70a3HpIKQU
70100	scrypt [Bridged: Scrypt-Jane SMix]	SCRYPT:16384:8:1:OTeYNzU0ODg=:Cc8SPjRH1hFQhuIPcDF51uNGtJ2aOY/issuoMIMUsJ8c=
70200	scrypt [Bridged: Scrypt-Yescrypt]	SCRYPT:16384:8:1:OTeYNzU0ODg=:Cc8SPjRH1hFQhuIPcDF51uNGtJ2aOY/issuoMIMUsJ8c=
72000	Generic Hash [Bridged: Python Interpreter free-threading]	33522b0fd9812aa68586f66dba7c17a8ce64344137f9c7d8b11f32a6921c22de*9348746780603343
73000	Generic Hash [Bridged: Python Interpreter with GIL]	33522b0fd9812aa68586f66dba7c17a8ce64344137f9c7d8b11f32a6921c22de*9348746780603343
74000	Generic Hash [Bridged: Rust]	33522b0fd9812aa68586f66dba7c17a8ce64344137f9c7d8b11f32a6921c22de*9348746780603343
99999	Plaintext	hashcat

\* In beta or not yet released

1 Password: "hashcat!"

2 rounds=[# of iterations] is **optional** here, after signature, e.g. \$5\$rounds=5000

3 Same format as in <sup>2</sup> but the number of rounds **must** be specified

4 The hash used here is **not** the one sent via e.g. the web interface to LastPass servers (pbkdf2\_sha256\_hex (pbkdf2\_sha256 (\$pass, \$email, \$iterations), \$pass, 1) but instead the one stored (by e.g. your browser or the pocket version) to disk. For instance, Opera and Chrome store the hash in local SQLite databases; Firefox uses files ending with "lpall.slps" - for Linux: 2nd line is interesting / base64 decode it; for Windows, see here [https://hashcat.net/forum/thread-2701-post-16111.html#pid16111] - and\_key.itr

5 You can consider the second part as a "salt". If it is equal to 00000000, the CRC32 code will be considered as "not salted"

6 The raw sha256 output is used for base64() encoding (not the hexadecimal output)

7 The format is hash:salt:id

8 Password: "hashcat1"

9 Password: "hashcat1hashcat1hashcat1"

10 This file actually contains several examples of the different hash+cipher combinations. The password is stored in the pw file.

11 You can use itunes\_backup2hashcat [https://github.com/philsmd/itunes\_backup2hashcat/] to extract the hashes from the Manifest.plist file

12 Password: "hashcat!!!". Min/max password length is exactly 10 characters/bytes.

13 You can use AxSuite by FistOurs [https://github.com/FistOurs/AxSuite] to retrieve the hashes.

14 Password: a288fcf0caaacda9a9f58633ff35e8992a01d9c10ba5e02efd8cb5d730ce7bc

15 Password: 5b13d4babb3714ccc62c9f71864bc984efd6a55f237c7a87fc2151e1ca658a9d

16 PIM: 500

17 full password in output is hashcat, but input provided must be without the first 6 bytes (therefore just: t)

18 88f43854ae7b1624fc2ab7724859e795130f4843c7535729e819cf92f39535dc

19 use this SQL query to extract the hashes:

```
SELECT user, CONCAT('$mysql', SUBSTR(authentication_string,1,3), LPAD(CONV(SUBSTR(authentication_string,4,3),16,10),4,0),'*',INSERT(HEX(SUBSTR(authentication_string,8)),41,0,'*')) AS hash FROM user WHERE plugin = 'caching_sha2_password' AND authentication_string NOT LIKE '%INVALIDSALTANDPASSWORD'
```

20 Password: "hashcat\_hashcat\_hashcat\_hashcat\_"

21 you can extract the hashes with https://github.com/0x6470/bitwarden2hashcat [https://github.com/0x6470/bitwarden2hashcat]

22 Password: b4b9b02e6f09a9bd760f388b67351e2b

23 Password: \$HEX[91b2e062b9]

24 Password: \$HEX[b8f63619ca]

25 Password: \$HEX[6a8aedccb7]

26 Password: KxhashcatxhXkULNJYF8Fu46G28SJrC7x2qwFtRuf38kvjKwXhg3

27 Password: 5KcL859EUbDVG76134U6DZWnVmpE996emJnWmTLRW2hashcat

28 Password: KyhashcatpL2CQmMUDVMVuEXqdLSvfQ6TBjkUuyttSvBa7GMiuLi

29 Password: 5HzV19ffW9QTnmZHbwETRpPHm1d4hAP8PG1etUb3T3jjhashcat

30 Password: L4hashcat7q6HMnMFcukyvxvJVvpabXYjxXLEY8846NtWUYx4YLI

31 Password: 5JjDR424kMePbt5UXnm2t1NizhdiVPcf8gCj68PQP2ihashcat

<sup>32</sup> Password: 127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2caba935

<sup>33</sup> Password: 59887ec9920239bd45b6a9f82b7c4e024f80beaf887e5ee6aac5de0a899d3068

<sup>34</sup> Password: 2006a306cf8f61c18c4e78e5fc0f5a7aa473b5ffb41f34344a32f8e042786fa1

<sup>35</sup> Password: 4d1987d7a341d51557af59996845740135ab2506515426ada57cc8ec05adf794

<sup>36</sup> Password: 25c9f8f734d87aacd9308705ca50b9819a57425ffbf4e41cef869b19764d72c

<sup>37</sup> Password: 83b45ff8d85f37aafc05a8accd1f1cd5e50868b57e2ef0ef6f287bb4d8d17786

<sup>38</sup> Password: 4c969ccc86d9e1f557b4ff1f19badc9a99718dd2aec8fcf66460612e05f5f7dd

## Specific hash types

These hash types are usually only found on a specific platform.

Hash-Mode	Hash-Name	Example
11	Joomla < 2.5.18	19e0e8d91c722e7091ca7a6a6fb0f4fa:54718031842521651757785603028777
12	PostgreSQL	a6343a68d964ca596d9752250d54bb8a:postgres
21	osCommerce, xt:Commerce	374996a5e8a5e57fd97d893f7df79824:36
22	Juniper NetScreen/SSG (ScreenOS)	nNxKL2rOEkbBc9BFLsVGG6OtOUO/8n:user
23	Skype	3af0389f093b181ae26452015f4ae728:user
24	SolarWinds Serv-U	e983672a03adcc9767b24584338eb378
101	nsldap, SHA-1(Base64), Netscape LDAP SHA	{SHA}-uj6qx+YUFzQbcQtyd2gpTQ5qJ3s=
111	nsldaps, SSHA-1(Base64), Netscape LDAP SSHA	{SSHA}AZKja92fuuB9SpRIHqaoXxbTc43Mzc2MDM1Ng==
112	Oracle S: Type (Oracle 11+)	ac5f1e62d21fd0529428b84d42e8955b04966703:38445748184477378130
121	SMF (Simple Machines Forum) > v1.1	ecf076ce9d6ed3624a9332112b1cd67b236fdd11:17782686
122	macOS v10.4, macOS v10.5, macOS v10.6	1430823483d07626ef8be3fda2ff056d0dfd818dbfe47683
124	Django (SHA-1)	sha1\$fe76b\$02d5916550edf7fc8c886f044887f4b1abf9b013
125	ArubaOS	5387280701327dc2162dbeb451d5a465af6d13eff9276fefeba
131	MSSQL (2000)	0x0100270256050000000000000000000000000000000000008db43db9b1972a636ad0c7d4b8c515cb8ce46578
132	MSSQL (2005)	0x010018102152f8f28c8499d8ef263c53f8be369d799f931b2fbe
133	PeopleSoft	uXmFrVdrBvv293L9kDR3VnRmx4ZM=
141	Episerver 6.x < .NET 4	\$episerver\$*0*bEtIVGHpNIZpcUN4a3ExTg==*utkfN0EOgljbv5FoZ6+AcZD5ilK
1411	SSHA-256(Base64), LDAP {SSHA256}	{SSHA256}OZiz0cnQ5hgyl3Emh7NCbhBRcq+HVBBwYplQunHYnER7TLuV
1421	hMailServer	8fe7ca27a17adc337cd892b1d959b4e4b7b8f0ef09e32214f44fb1b07e461c532e9ec3
1441	Episerver 6.x >= .NET 4	\$episerver\$*1*MDEyMzQ1Njc4OWFIY2RlZG==*IRjiU46qHA7S6ZE7RfKucYhB85ofArj1j7TrCtu3u6Y
1711	SSHA-512(Base64), LDAP {SSHA512}	{SSHA512}AltWKGBdRGd+U0PfAY31C28RYKYx7+a8kmfkscCsOelKnLHv2DBXYI7TDntoIQMBuPkWDISgZr2ChfnPpfjGZTEyNDU4OTkw
1722	macOS v10.7	648742485c9b0acd786a233b2330197223118111b481abfa0ab8b3e8ede5f041fc7c523991c007db6882680b09962d16fd9c45568260531bdb34804a5e31c22b4cfef32d
1731	MSSQL (2012, 2014)	0x02000102030434ea1b17802fd95ea6316bd61d2c94622ca3812793e8bf1672487b5c904a5a31b2ab4a78890d563d2fcf56634e46fe79d7f1550494be50cf4915d3fd455ec375
2611	vBulletin < v3.8.5	16780ba78d2d5f02f3202901ci1b6d975:568
2612	PHPS	\$PHPS\$34323438373734\$5b07e065b9d78d69603e71201c6cf29f
2711	vBulletin >= v3.8.5	bf366348c53ddcfbd16e63edfdd1eee6:181264250056774603641874043270
2811	MyBB 1.2+, IPB2+ (Invision Power Board)	8d2129083ef35f4b365d5d87487e1207:47204
3711	MediaWiki B type	\$B\$5668501\$0ce106caa70af57fd525aea80ef2898
4521	Redmine	1fb46a8f81d8838f46879aaa29168d08aa6bf22d:3290afd193d90e900e8021f81409d7a9
4522	PunBB	4a2b722cc65ecf0f7797cddea4bce81f66716eef:653074362104
4711	Huawei sha1(md5(\$pass).\$salt)	53c724b7f34f0978fed3f1b316215fc35c789504:hashcat1
7100	macOS v10.8+ (PBKDF2-SHA512)	\$ml\$35460\$93a94bd24b5de64d79a5e49fa372827e739f4d7b6975c752c9a0ffe1e5cf72e05\$752351df64d2ced9dc9c64a72ad91de6581a15c19176266b44d98919dfa81f0f96cbcb20a1ffb400718c20382030f637892f776627d34e021bad4f81b7de8222
7401	MySQL \$A\$ (sha256crypt) <sup>19</sup>	\$mysql\$A\$a005*f9CC98CE08892924f50A213B6BC571A2C11778C5*625479393559393965414D45316477456B484F41316E64484742577A2E3162785353526B7554584647562F
12001	Atlassian (PBKDF2-HMAC-SHA1)	{PKCS5S2}NziYnzMZONzYNTiWnj3MdDDis7wPxSbSzffqDGf7u/L0okSEnupbz36XCL0m7wa
20711	AuthMe sha256	\$SHA\$721853275810603bfbede293ecf653921a7305ea218b9f3f608953130405cda9eaba6fb6250f824
22301	Telegram Mobile App Passcode (SHA256)	\$telegram\$0*518c001aeb3b4ae96c6173be4cebe60a85f671e087b045935849e2f815b5e41*25184098058621950709328221838128

## Legacy hash types

These hash types are only supported in hashcat-legacy or oclHashcat.

Hash-Mode	Hash-Name	Example
423	EPi	0x326C6D7B4E4F794B79474E36704F35723958397163735263516265456E31 0xAF55E260B8F45C0C6512BCE776C1AD8312B56E6
490	sha1(Linkedin) <sup>2</sup>	b89eaac7e61417341b710b727768294d0e6a277b
4431	base64(sha256(unicode(\$pass))) <sup>1</sup>	npKD5jP0p6QtOryTcBFVvor+VmDajMh1jn01M+Ly3II=
3300	MD5(Sum) <sup>1</sup>	\$md5\$rounds=904\$ifPPKEBnEkp3JV8uX\$0L6m7rOfTVFn.SGqo2M9W1
3640	md5(md5(\$salt):\$pass) <sup>1</sup>	7b57255a15958ef898543ea6cc3313bc:1234

Hash-Mode	Hash-Name	Example
<del>3720</del>	<del>md5(\$pass.md5(\$salt))</del> <sup>1</sup>	10ce488714fdbde9453670e0e4cbe99c:1234
<del>3721</del>	<del>WebEdition-CMC</del> <sup>1</sup> <del>5722</del>	fa01af9f0de5f377ae8befb03865178e:5678
<del>4210</del>	<del>md5(\$username-0-\$pass)</del> <sup>1</sup>	09ea048c345ad336ebe38ae5b6c4de24:1234
<del>4600</del>	<del>sha1(sha1(sha1(\$pass)))</del> <sup>1</sup>	dc57f246485e62d99a5110afc9264b4ccbfcf3cc

<sup>1</sup> Supported in [hashcat-legacy](#).

<sup>2</sup> Supported in [oclHashcat](#).

## Superseded hash types

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These hash types used to be in some version of hashcat, but were removed or replaced.

Hash-Mode	Hash-Name	Example
5000	SHA-3 (Keccak)	203f88777f18bb4ee1226627b547808f38d90d3e106262b5de9ca943b57137b6 replaced by specific Keccak types in hashcat 5.0.0

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