**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**.

**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 = $salt) | bfd280436f45fa38eaacac3b00518f29:1234 |
| 100 | SHA1 | b89eaac7e61417341b710b727768294d0e6a277b |
| 110 | sha1($pass.$salt) | 2fc5a684737ce1bf7b3b239df432416e0dd07357:2014 |
| 120 | sha1($salt.$pass) | cac35ec206d868b7d7cb0b55f31d9425b075082b:5363620024 |
| 130 | sha1(utf16le($pass).$salt) | c57f6ac1b71f45a07dbd91a59fa47c23abcd87c2:631225 |
| 140 | sha1($salt.utf16le($pass)) | 5db61e4cd8776c7969cfd62456da639a4c87683a:8763434884872 |
| 150 | HMAC-SHA1 (key = $pass) | c898896f3f70f61bc3fb19bef222aa860e5ea717:1234 |
| 160 | HMAC-SHA1 (key = $salt) | d89c92b4400b15c39e462a8caa939ab40c3aeeea:1234 |
| 200 | MySQL323 | 7196759210defdc0 |
| 300 | MySQL4.1/MySQL5 | fcf7c1b8749cf99d88e5f34271d636178fb5d130 |
| 400 | phpass, WordPress (MD5), Joomla (MD5) | $P$984478476IagS59wHZvyQMArzfx58u. |
| 400 | phpass, phpBB3 (MD5) | $H$984478476IagS59wHZvyQMArzfx58u. |
| 500 | md5crypt, MD5 (Unix), Cisco-IOS $1$ (MD5) 2 | $1$28772684$iEwNOgGugqO9.bIz5sk8k/ |
| 501 | Juniper IVE | 3u+UR6n8AgABAAAAHxxdXKmiOmUoqKnZlf8lTOhlPYy93EAkbPfs5+49YLFd/B1+omSKbW7DoqNM40/EeVnwJ8kYoXv9zy9D5C5m5A== |
| 600 | BLAKE2b-512 | $BLAKE2$296c269e70ac5f0095e6fb47693480f0f7b97ccd0307f5c3bfa4df8f5ca5c9308a0e7108e80a0a9c0ebb715e8b7109b072046c6cd5e155b4cfd2f27216283b1e |
| 900 | MD4 | afe04867ec7a3845145579a95f72eca7 |
| 1000 | NTLM | b4b9b02e6f09a9bd760f388b67351e2b |
| 1100 | Domain Cached Credentials (DCC), MS Cache | 4dd8965d1d476fa0d026722989a6b772:3060147285011 |
| 1300 | SHA-224 | e4fa1555ad877bf0ec455483371867200eee89550a93eff2f95a6198 |
| 1400 | SHA-256 | 127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2caba935 |
| 1410 | sha256($pass.$salt) | c73d08de890479518ed60cf670d17faa26a4a71f995c1dcc978165399401a6c4:53743528 |
| 1420 | sha256($salt.$pass) | eb368a2dfd38b405f014118c7d9747fcc97f4f0ee75c05963cd9da6ee65ef498:560407001617 |
| 1430 | sha256(utf16le($pass).$salt) | 4cc8eb60476c33edac52b5a7548c2c50ef0f9e31ce656c6f4b213f901bc87421:890128 |
| 1440 | sha256($salt.utf16le($pass)) | a4bd99e1e0aba51814e81388badb23ecc560312c4324b2018ea76393ea1caca9:12345678 |
| 1450 | HMAC-SHA256 (key = $pass) | abaf88d66bf2334a4a8b207cc61a96fb46c3e38e882e6f6f886742f688b8588c:1234 |
| 1460 | HMAC-SHA256 (key = $salt) | 8efbef4cec28f228fa948daaf4893ac3638fbae81358ff9020be1d7a9a509fc6:1234 |
| 1500 | descrypt, DES (Unix), Traditional DES | 48c/R8JAv757A |
| 1600 | Apache $apr1$ MD5, md5apr1, MD5 (APR) 2 | $apr1$71850310$gh9m4xcAn3MGxogwX/ztb. |
| 1700 | SHA-512 | 82a9dda829eb7f8ffe9fbe49e45d47d2dad9664fbb7adf72492e3c81ebd3e29134d9bc12212bf83c6840f10e8246b9db54a4859b7ccd0123d86e5872c1e5082f |
| 1710 | sha512($pass.$salt) | e5c3ede3e49fb86592fb03f471c35ba13e8d89b8ab65142c9a8fdafb635fa2223c24e5558fd9313e8995019dcbec1fb584146b7bb12685c7765fc8c0d51379fd:6352283260 |
| 1720 | sha512($salt.$pass) | 976b451818634a1e2acba682da3fd6efa72adf8a7a08d7939550c244b237c72c7d42367544e826c0c83fe5c02f97c0373b6b1386cc794bf0d21d2df01bb9c08a:2613516180127 |
| 1730 | sha512(utf16le($pass).$salt) | 13070359002b6fbb3d28e50fba55efcf3d7cc115fe6e3f6c98bf0e3210f1c6923427a1e1a3b214c1de92c467683f6466727ba3a51684022be5cc2ffcb78457d2:341351589 |
| 1740 | sha512($salt.utf16le($pass)) | bae3a3358b3459c761a3ed40d34022f0609a02d90a0d7274610b16147e58ece00cd849a0bd5cf6a92ee5eb5687075b4e754324dfa70deca6993a85b2ca865bc8:1237015423 |
| 1750 | HMAC-SHA512 (key = $pass) | 94cb9e31137913665dbea7b058e10be5f050cc356062a2c9679ed0ad6119648e7be620e9d4e1199220cd02b9efb2b1c78234fa1000c728f82bf9f14ed82c1976:1234 |
| 1760 | HMAC-SHA512 (key = $salt) | 7cce966f5503e292a51381f238d071971ad5442488f340f98e379b3aeae2f33778e3e732fcc2f7bdc04f3d460eebf6f8cb77da32df25500c09160dd3bf7d2a6b:1234 |
| 1800 | sha512crypt $6$, SHA512 (Unix) 2 | $6$52450745$k5ka2p8bFuSmoVT1tzOyyuaREkkKBcCNqoDKzYiJL9RaE8yMnPgh2XzzF0NDrUhgrcLwg78xs1w5pJiypEdFX/ |
| 2000 | STDOUT | n/a |
| 2100 | Domain Cached Credentials 2 (DCC2), MS Cache 2 | $DCC2$10240#tom#e4e938d12fe5974dc42a90120bd9c90f |
| 2400 | Cisco-PIX MD5 | dRRVnUmUHXOTt9nk |
| 2410 | Cisco-ASA MD5 | 02dMBMYkTdC5Ziyp:36 |
| 2500 | WPA/WPA2 1 | <https://hashcat.net/misc/example_hashes/hashcat.hccapx> |
| 2501 | WPA/WPA2 PMK 14 | <https://hashcat.net/misc/example_hashes/hashcat-pmk.hccapx> |
| 2600 | md5(md5($pass)) | a936af92b0ae20b1ff6c3347a72e5fbe |
| 3000 | LM | 299bd128c1101fd6 |
| 3100 | Oracle H: Type (Oracle 7+), DES(Oracle) | 7A963A529D2E3229:3682427524 |
| 3200 | bcrypt $2\*$, Blowfish (Unix) | $2a$05$LhayLxezLhK1LhWvKxCyLOj0j1u.Kj0jZ0pEmm134uzrQlFvQJLF6 |
| 3710 | md5($salt.md5($pass)) | 95248989ec91f6d0439dbde2bd0140be:1234 |
| 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($pass)) | 288496df99b33f8f75a7ce4837d1b480 |
| 4500 | sha1(sha1($pass)) | 3db9184f5da4e463832b086211af8d2314919951 |
| 4520 | sha1($salt.sha1($pass)) | a0f835fdf57d36ebd8d0399cc44e6c2b86a1072b:511358214352751667201107073531735211566650747315 |
| 4700 | sha1(md5($pass)) | 92d85978d884eb1d99a51652b1139c8279fa8663 |
| 4710 | sha1(md5($pass).$salt) | 53c724b7f34f09787ed3f1b316215fc35c789504:hashcat1 |
| 4800 | iSCSI CHAP authentication, MD5(CHAP) 7 | afd09efdd6f8ca9f18ec77c5869788c3:01020304050607080910111213141516:01 |
| 4900 | sha1($salt.$pass.$salt) | 85087a691a55cbb41ae335d459a9121d54080b80:488387841 |
| 5100 | Half MD5 | 8743b52063cd8409 |
| 5200 | Password Safe v3 | <https://hashcat.net/misc/example_hashes/hashcat.psafe3> |
| 5300 | IKE-PSK MD5 | <https://hashcat.net/misc/example_hashes/hashcat.ikemd5> |
| 5400 | IKE-PSK SHA1 | <https://hashcat.net/misc/example_hashes/hashcat.ikesha1> |
| 5500 | NetNTLMv1 / NetNTLMv1+ESS | u4-netntlm::kNS:338d08f8e26de93300000000000000000000000000000000:9526fb8c23a90751cdd619b6cea564742e1e4bf33006ba41:cb8086049ec4736c |
| 5600 | NetNTLMv2 | admin::N46iSNekpT:08ca45b7d7ea58ee:88dcbe4446168966a153a0064958dac6:5c7830315c7830310000000000000b45c67103d07d7b95acd12ffa11230e0000000052920b85f78d013c31cdb3b92f5d765c783030 |
| 5700 | Cisco-IOS type 4 (SHA256) | 2btjjy78REtmYkkW0csHUbJZOstRXoWdX1mGrmmfeHI |
| 5800 | Samsung Android Password/PIN | 0223b799d526b596fe4ba5628b9e65068227e68e:f6d45822728ddb2c |
| 6000 | RIPEMD-160 | 012cb9b334ec1aeb71a9c8ce85586082467f7eb6 |
| 6100 | Whirlpool | 7ca8eaaaa15eaa4c038b4c47b9313e92da827c06940e69947f85bc0fbef3eb8fd254da220ad9e208b6b28f6bb9be31dd760f1fdb26112d83f87d96b416a4d258 |
| 6211 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes.tc> |
| 6211 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent.tc> |
| 6211 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish.tc> |
| 6212 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish.tc> |
| 6213 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent.tc> |
| 6212 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes.tc> |
| 6213 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes.tc> |
| 6212 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent.tc> |
| 6221 | TrueCrypt 5.0+ SHA512 + AES | <https://hashcat.net/misc/example_hashes/hashcat_sha512_aes.tc> |
| 6221 | TrueCrypt 5.0+ SHA512 + Serpent | <https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent.tc> |
| 6221 | TrueCrypt 5.0+ SHA512 + Twofish | <https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish.tc> |
| 6222 | TrueCrypt 5.0+ SHA512 + AES-Twofish | <https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish.tc> |
| 6223 | TrueCrypt 5.0+ SHA512 + AES-Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish-serpent.tc> |
| 6222 | TrueCrypt 5.0+ SHA512 + Serpent-AES | <https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-aes.tc> |
| 6223 | TrueCrypt 5.0+ SHA512 + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-twofish-aes.tc> |
| 6222 | TrueCrypt 5.0+ SHA512 + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish-serpent.tc> |
| 6231 | TrueCrypt 5.0+ Whirlpool + AES | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes.tc> |
| 6231 | TrueCrypt 5.0+ Whirlpool + Serpent | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent.tc> |
| 6231 | TrueCrypt 5.0+ Whirlpool + Twofish | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish.tc> |
| 6232 | TrueCrypt 5.0+ Whirlpool + AES-Twofish | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish.tc> |
| 6233 | TrueCrypt 5.0+ Whirlpool + AES-Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish-serpent.tc> |
| 6232 | TrueCrypt 5.0+ Whirlpool + Serpent-AES | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-aes.tc> |
| 6233 | TrueCrypt 5.0+ Whirlpool + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-twofish-aes.tc> |
| 6232 | TrueCrypt 5.0+ Whirlpool + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish-serpent.tc> |
| 6241 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes_boot.tc> |
| 6241 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent_boot.tc> |
| 6241 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish_boot.tc> |
| 6242 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish_boot.tc> |
| 6243 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent_boot.tc> |
| 6242 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes_boot.tc> |
| 6243 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes_boot.tc> |
| 6242 | TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent + boot | <https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent_boot.tc> |
| 6300 | AIX {smd5} | {smd5}a5/yTL/u$VfvgyHx1xUlXZYBocQpQY0 |
| 6400 | AIX {ssha256} | {ssha256}06$aJckFGJAB30LTe10$ohUsB7LBPlgclE3hJg9x042DLJvQyxVCX.nZZLEz.g2 |
| 6500 | AIX {ssha512} | {ssha512}06$bJbkFGJAB30L2e23$bXiXjyH5YGIyoWWmEVwq67nCU5t7GLy9HkCzrodRCQCx3r9VvG98o7O3V0r9cVrX3LPPGuHqT5LLn0oGCuI1.. |
| 6600 | 1Password, agilekeychain | <https://hashcat.net/misc/example_hashes/hashcat.agilekeychain> |
| 6700 | AIX {ssha1} | {ssha1}06$bJbkFGJAB30L2e23$dCESGOsP7jaIIAJ1QAcmaGeG.kr |
| 6800 | LastPass + LastPass sniffed4 | a2d1f7b7a1862d0d4a52644e72d59df5:500:lp@trash-mail.com |
| 6900 | GOST R 34.11-94 | df226c2c6dcb1d995c0299a33a084b201544293c31fc3d279530121d36bbcea9 |
| 7000 | FortiGate (FortiOS) | AK1AAECAwQFBgcICRARNGqgeC3is8gv2xWWRony9NJnDgE= |
| 7100 | OSX v10.8+ (PBKDF2-SHA512) | $ml$35460$93a94bd24b5de64d79a5e49fa372827e739f4d7b6975c752c9a0ff1e5cf72e05$752351df64dd2ce9dc9c64a72ad91de6581a15c19176266b44d98919dfa81f0f96cbcb20a1ffb400718c20382030f637892f776627d34e021bad4f81b7de8222 |
| 7200 | GRUB 2 | grub.pbkdf2.sha512.10000.7d391ef48645f626b427b1fae06a7219b5b54f4f02b2621f86b5e36e83ae492bd1db60871e45bc07925cecb46ff8ba3db31c723c0c6acbd4f06f60c5b246ecbf.26d59c52b50df90d043f070bd9cbcd92a74424da42b3666fdeb08f1a54b8f1d2f4f56cf436f9382419c26798dc2c209a86003982b1e5a9fcef905f4dfaa4c524 |
| 7300 | IPMI2 RAKP HMAC-SHA1 | b7c2d6f13a43dce2e44ad120a9cd8a13d0ca23f0414275c0bbe1070d2d1299b1c04da0f1a0f1e4e2537300263a2200000000000000000000140768617368636174:472bdabe2d5d4bffd6add7b3ba79a291d104a9ef |
| 7400 | sha256crypt $5$, SHA256 (Unix) 2 | $5$rounds=5000$GX7BopJZJxPc/KEK$le16UF8I2Anb.rOrn22AUPWvzUETDGefUmAV8AZkGcD |
| 7500 | Kerberos 5 AS-REQ Pre-Auth etype 23 | $krb5pa$23$user$realm$salt$4e751db65422b2117f7eac7b721932dc8aa0d9966785ecd958f971f622bf5c42dc0c70b532363138363631363132333238383835 |
| 7700 | SAP CODVN B (BCODE) | USER$C8B48F26B87B7EA7 |
| 7701 | SAP CODVN B (BCODE) mangled from RFC\_READ\_TABLE | 027642760180$77EC386300000000 |
| 7800 | SAP CODVN F/G (PASSCODE) | USER$ABCAD719B17E7F794DF7E686E563E9E2D24DE1D0 |
| 7801 | SAP CODVN F/G (PASSCODE) mangled from RFC\_READ\_TABLE | 604020408266$32837BA7B97672BA4E5A00000000000000000000 |
| 7900 | Drupal7 | $S$C33783772bRXEx1aCsvY.dqgaaSu76XmVlKrW9Qu8IQlvxHlmzLf |
| 8000 | Sybase ASE | 0xc00778168388631428230545ed2c976790af96768afa0806fe6c0da3b28f3e132137eac56f9bad027ea2 |
| 8100 | Citrix NetScaler | 1765058016a22f1b4e076dccd1c3df4e8e5c0839ccded98ea |
| 8200 | 1Password, cloudkeychain | <https://hashcat.net/misc/example_hashes/hashcat.cloudkeychain> |
| 8300 | DNSSEC (NSEC3) | 7b5n74kq8r441blc2c5qbbat19baj79r:.lvdsiqfj.net:33164473:1 |
| 8400 | WBB3 (Woltlab Burning Board) | 8084df19a6dc81e2597d051c3d8b400787e2d5a9:6755045315424852185115352765375338838643 |
| 8500 | RACF | $racf$\*USER\*FC2577C6EBE6265B |
| 8600 | Lotus Notes/Domino 5 | 3dd2e1e5ac03e230243d58b8c5ada076 |
| 8700 | Lotus Notes/Domino 6 | (GDpOtD35gGlyDksQRxEU) |
| 8800 | Android FDE <= 4.3 | <https://hashcat.net/misc/example_hashes/hashcat.android43fde> |
| 8900 | scrypt | SCRYPT:1024:1:1:MDIwMzMwNTQwNDQyNQ==:5FW+zWivLxgCWj7qLiQbeC8zaNQ+qdO0NUinvqyFcfo= |
| 9000 | Password Safe v2 | <https://hashcat.net/misc/example_hashes/hashcat.psafe2.dat> |
| 9100 | Lotus Notes/Domino 8 | (HsjFebq0Kh9kH7aAZYc7kY30mC30mC3KmC30mCluagXrvWKj1) |
| 9200 | Cisco-IOS $8$ (PBKDF2-SHA256) | $8$TnGX/fE4KGHOVU$pEhnEvxrvaynpi8j4f.EMHr6M.FzU8xnZnBr/tJdFWk |
| 9300 | Cisco-IOS $9$ (scrypt) | $9$2MJBozw/9R3UsU$2lFhcKvpghcyw8deP25GOfyZaagyUOGBymkryvOdfo6 |
| 9400 | MS Office 2007 | $office$\*2007\*20\*128\*16\*411a51284e0d0200b131a8949aaaa5cc\*117d532441c63968bee7647d9b7df7d6\*df1d601ccf905b375575108f42ef838fb88e1cde |
| 9500 | MS Office 2010 | $office$\*2010\*100000\*128\*16\*77233201017277788267221014757262\*b2d0ca4854ba19cf95a2647d5eee906c\*e30cbbb189575cafb6f142a90c2622fa9e78d293c5b0c001517b3f5b82993557 |
| 9600 | MS Office 2013 | $office$\*2013\*100000\*256\*16\*7dd611d7eb4c899f74816d1dec817b3b\*948dc0b2c2c6c32f14b5995a543ad037\*0b7ee0e48e935f937192a59de48a7d561ef2691d5c8a3ba87ec2d04402a94895 |
| 9700 | MS Office ⇐ 2003 MD5 + RC4, oldoffice$0, oldoffice$1 | $oldoffice$1\*04477077758555626246182730342136\*b1b72ff351e41a7c68f6b45c4e938bd6\*0d95331895e99f73ef8b6fbc4a78ac1a |
| 9710 | MS Office ⇐ 2003 $0/$1, MD5 + RC4, collider #1 | $oldoffice$0\*55045061647456688860411218030058\*e7e24d163fbd743992d4b8892bf3f2f7\*493410dbc832557d3fe1870ace8397e2 |
| 9720 | MS Office ⇐ 2003 $0/$1, MD5 + RC4, collider #2 | $oldoffice$0\*55045061647456688860411218030058\*e7e24d163fbd743992d4b8892bf3f2f7\*493410dbc832557d3fe1870ace8397e2:91b2e062b9 |
| 9800 | MS Office ⇐ 2003 SHA1 + RC4, oldoffice$3, oldoffice$4 | $oldoffice$3\*83328705222323020515404251156288\*2855956a165ff6511bc7f4cd77b9e101\*941861655e73a09c40f7b1e9dfd0c256ed285acd |
| 9810 | MS Office ⇐ 2003 $3, SHA1 + RC4, collider #1 | $oldoffice$3\*83328705222323020515404251156288\*2855956a165ff6511bc7f4cd77b9e101\*941861655e73a09c40f7b1e9dfd0c256ed285acd |
| 9820 | MS Office ⇐ 2003 $3, SHA1 + RC4, collider #2 | $oldoffice$3\*83328705222323020515404251156288\*2855956a165ff6511bc7f4cd77b9e101\*941861655e73a09c40f7b1e9dfd0c256ed285acd:b8f63619ca |
| 9900 | Radmin2 | 22527bee5c29ce95373c4e0f359f079b |
| 10000 | Django (PBKDF2-SHA256) | pbkdf2\_sha256$20000$H0dPx8NeajVu$GiC4k5kqbbR9qWBlsRgDywNqC2vd9kqfk7zdorEnNas= |
| 10100 | SipHash | ad61d78c06037cd9:2:4:81533218127174468417660201434054 |
| 10200 | CRAM-MD5 | $cram\_md5$PG5vLXJlcGx5QGhhc2hjYXQubmV0Pg==$dXNlciA0NGVhZmQyMmZlNzY2NzBmNmIyODc5MDgxYTdmNWY3MQ== |
| 10300 | SAP CODVN H (PWDSALTEDHASH) iSSHA-1 | {x-issha, 1024}C0624EvGSdAMCtuWnBBYBGA0chvqAflKY74oEpw/rpY= |
| 10400 | PDF 1.1 - 1.3 (Acrobat 2 - 4) | $pdf$1\*2\*40\*-1\*0\*16\*51726437280452826511473255744374\*32\*9b09be05c226214fa1178342673d86f273602b95104f2384b6c9b709b2cbc058\*32\*0000000000000000000000000000000000000000000000000000000000000000 |
| 10410 | PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #1 | $pdf$1\*2\*40\*-1\*0\*16\*01221086741440841668371056103222\*32\*27c3fecef6d46a78eb61b8b4dbc690f5f8a2912bbb9afc842c12d79481568b74\*32\*0000000000000000000000000000000000000000000000000000000000000000 |
| 10420 | PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #2 | $pdf$1\*2\*40\*-1\*0\*16\*01221086741440841668371056103222\*32\*27c3fecef6d46a78eb61b8b4dbc690f5f8a2912bbb9afc842c12d79481568b74\*32\*0000000000000000000000000000000000000000000000000000000000000000:6a8aedccb7 |
| 10500 | PDF 1.4 - 1.6 (Acrobat 5 - 8) | $pdf$2\*3\*128\*-1028\*1\*16\*da42ee15d4b3e08fe5b9ecea0e02ad0f\*32\*c9b59d72c7c670c42eeb4fca1d2ca15000000000000000000000000000000000\*32\*c4ff3e868dc87604626c2b8c259297a14d58c6309c70b00afdfb1fbba10ee571 |
| 10600 | PDF 1.7 Level 3 (Acrobat 9) | $pdf$5\*5\*256\*-1028\*1\*16\*20583814402184226866485332754315\*127\*f95d927a94829db8e2fbfbc9726ebe0a391b22a084ccc2882eb107a74f7884812058381440218422686648533275431500000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000\*127\*00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000\*32\*0000000000000000000000000000000000000000000000000000000000000000\*32\*0000000000000000000000000000000000000000000000000000000000000000 |
| 10700 | PDF 1.7 Level 8 (Acrobat 10 - 11) | $pdf$5\*6\*256\*-1028\*1\*16\*21240790753544575679622633641532\*127\*2d1ecff66ea354d3d34325a6503da57e03c199c21b13dd842f8d515826054d8d2124079075354457567962263364153200000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000\*127\*00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000\*32\*0000000000000000000000000000000000000000000000000000000000000000\*32\*0000000000000000000000000000000000000000000000000000000000000000 |
| 10800 | SHA-384 | 07371af1ca1fca7c6941d2399f3610f1e392c56c6d73fddffe38f18c430a2817028dae1ef09ac683b62148a2c8757f42 |
| 10900 | PBKDF2-HMAC-SHA256 | sha256:1000:MTc3MTA0MTQwMjQxNzY=:PYjCU215Mi57AYPKva9j7mvF4Rc5bCnt |
| 11000 | PrestaShop | 810e3d12f0f10777a679d9ca1ad7a8d9:M2uZ122bSHJ4Mi54tXGY0lqcv1r28mUluSkyw37ou5oia4i239ujqw0l |
| 11100 | PostgreSQL CRAM (MD5) | $postgres$postgres\*f0784ea5\*2091bb7d4725d1ca85e8de6ec349baf6 |
| 11200 | MySQL CRAM (SHA1) | $mysqlna$1c24ab8d0ee94d70ab1f2e814d8f0948a14d10b9\*437e93572f18ae44d9e779160c2505271f85821d |
| 11300 | Bitcoin/Litecoin wallet.dat | $bitcoin$96$d011a1b6a8d675b7a36d0cd2efaca32a9f8dc1d57d6d01a58399ea04e703e8bbb44899039326f7a00f171a7bbc854a54$16$1563277210780230$158555$96$628835426818227243334570448571536352510740823233055715845322741625407685873076027233865346542174$66$625882875480513751851333441623702852811440775888122046360561760525 |
| 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 5 | c762de4a:00000000 |
| 11600 | 7-Zip | $7z$0$19$0$salt$8$f6196259a7326e3f0000000000000000$185065650$112$98$f3bc2a88062c419a25acd40c0c2d75421cf23263f69c51b13f9b1aada41a8a09f9adeae45d67c60b56aad338f20c0dcc5eb811c7a61128ee0746f922cdb9c59096869f341c7a9cb1ac7bb7d771f546b82cf4e6f11a5ecd4b61751e4d8de66dd6e2dfb5b7d1022d2211e2d66ea1703f96 |
| 11700 | GOST R 34.11-2012 (Streebog) 256-bit | 57e9e50caec93d72e9498c211d6dc4f4d328248b48ecf46ba7abfa874f666e36 |
| 11750 | HMAC-Streebog-256 (key = $pass), big-endian | 0f71c7c82700c9094ca95eee3d804cc283b538bec49428a9ef8da7b34effb3ba:08151337 |
| 11760 | HMAC-Streebog-256 (key = $salt), big-endian | d5c6b874338a492ac57ddc6871afc3c70dcfd264185a69d84cf839a07ef92b2c:08151337 |
| 11800 | GOST R 34.11-2012 (Streebog) 512-bit | 5d5bdba48c8f89ee6c0a0e11023540424283e84902de08013aeeb626e819950bb32842903593a1d2e8f71897ff7fe72e17ac9ba8ce1d1d2f7e9c4359ea63bdc3 |
| 11850 | HMAC-Streebog-512 (key = $pass), big-endian | be4555415af4a05078dcf260bb3c0a35948135df3dbf93f7c8b80574ceb0d71ea4312127f839b7707bf39ccc932d9e7cb799671183455889e8dde3738dfab5b6:08151337 |
| 11860 | HMAC-Streebog-512 (key = $salt), big-endian | bebf6831b3f9f958acb345a88cb98f30cb0374cff13e6012818487c8dc8d5857f23bca2caed280195ad558b8ce393503e632e901e8d1eb2ccb349a544ac195fd:08151337 |
| 11900 | PBKDF2-HMAC-MD5 | md5:1000:MTg1MzA=:Lz84VOcrXd699Edsj34PP98+f4f3S0rTZ4kHAIHoAjs= |
| 12000 | PBKDF2-HMAC-SHA1 | sha1:1000:MzU4NTA4MzIzNzA1MDQ=:19ofiY+ahBXhvkDsp0j2ww== |
| 12100 | PBKDF2-HMAC-SHA512 | sha512:1000:ODQyMDEwNjQyODY=:MKaHNWXUsuJB3IEwBHbm3w== |
| 12200 | eCryptfs | $ecryptfs$0$1$7c95c46e82f364b3$60bba503f0a42d0c |
| 12300 | Oracle T: Type (Oracle 12+) | 78281A9C0CF626BD05EFC4F41B515B61D6C4D95A250CD4A605CA0EF97168D670EBCB5673B6F5A2FB9CC4E0C0101E659C0C4E3B9B3BEDA846CD15508E88685A2334141655046766111066420254008225 |
| 12400 | BSDiCrypt, Extended DES | \_9G..8147mpcfKT8g0U. |
| 12500 | RAR3-hp | $RAR3$\*0\*45109af8ab5f297a\*adbf6c5385d7a40373e8f77d7b89d317 |
| 12600 | ColdFusion 10+ | aee9edab5653f509c4c63e559a5e967b4c112273bc6bd84525e630a3f9028dcb:5136256866783777334574783782810410706883233321141647265340462733 |
| 12700 | Blockchain, My Wallet | $blockchain$288$ |
| 12800 | MS-AzureSync PBKDF2-HMAC-SHA256 | v1;PPH1\_MD4,84840328224366186645,100,005a491d8bf3715085d69f934eef7fb19a15ffc233b5382d9827910bc32f3506 |
| 12900 | Android FDE (Samsung DEK) | 38421854118412625768408160477112384218541184126257684081604771129b6258eb22fc8b9d08e04e6450f72b98725d7d4fcad6fb6aec4ac2a79d0c6ff738421854118412625768408160477112 |
| 13000 | RAR5 | $rar5$16$74575567518807622265582327032280$15$f8b4064de34ac02ecabfe9abdf93ed6a$8$9843834ed0f7c754 |
| 13100 | Kerberos 5 TGS-REP etype 23 | $krb5tgs$23$\*user$realm$test/spn\*$63386d22d359fe42230300d56852c9eb$891ad31d09ab89c6b3b8c5e5de6c06a7f49fd559d7a9a3c32576c8fedf705376cea582ab5938f7fc8bc741acf05c5990741b36ef4311fe3562a41b70a4ec6ecba849905f2385bb3799d92499909658c7287c49160276bca0006c350b0db4fd387adc27c01e9e9ad0c20ed53a7e6356dee2452e35eca2a6a1d1432796fc5c19d068978df74d3d0baf35c77de12456bf1144b6a750d11f55805f5a16ece2975246e2d026dce997fba34ac8757312e9e4e6272de35e20d52fb668c5ed |
| 13200 | AxCrypt | $axcrypt$\*1\*10000\*aaf4a5b4a7185551fea2585ed69fe246\*45c616e901e48c6cac7ff14e8cd99113393be259c595325e |
| 13300 | AxCrypt in-memory SHA1 13 | $axcrypt\_sha1$b89eaac7e61417341b710b727768294d0e6a277b |
| 13400 | KeePass 1 AES / without keyfile | $keepass$\*1\*50000\*0\*375756b9e6c72891a8e5645a3338b8c8\*82afc053e8e1a6cfa39adae4f5fe5e59f545a54d6956593d1709b39cacd7f796\*c698fbfc7d1b71431d10611e2216ab21\*24a63140f4eb3bfd7d59b7694eea38d1d93a43bc3af989755d2b326286c4d510\*1\*192\*1a65072f436e9da0c9e832eca225a04ab78821b55d9f550860ade2ef8126a2c4050cf4d033374abd3dac6d0c5907c6cbb033643b203825c12e6c9853b5ac17a4809559fe723e01b4a2ab87cc83c8ba7ee4a757b8a0cf1674106f21f6675cba12064443d65436650df10ea0923c4cadfd4bfe341a6f4fa23a1a67f7d12a489fc5410ef6db9f6607905de491d3b3b915852a1b6c231c96366cbdee5ea9bd7f73ffd2f7a579215528ae1bf0ea540947ebfe39ca84bc6cbeded4f8e8fb6ed8f32dd5 |
| 13400 | KeePass 2 AES / without keyfile | $keepass$\*2\*6000\*222\*a279e37c38b0124559a83fa452a0269d56dc4119a5866d18e76f1f3fd536d64d\*7ec7a06bc975ea2ae7c8dcb99e826a308564849b6b25d858cbbc78475af3733f\*d477c849bf2278b7a1f626c81e343553\*38c8ec186141c2705f2bcb334a730933ed3b0ee11391e1100fbaf429f6c99078\*1ada85fe78cf36ab0537562a787dd83e446f13cd3d9a60fd495003de3537b702 |
| 13400 | KeePass 1 Twofish / with keyfile | $keepass$\*1\*6000\*1\*31c087828b0bb76362c10cae773aacdf\*6d6c78b4f82ecbcd3b96670cf490914c25ea8c31bc3aeb3fc56e65fac16d721f\*a735ec88c01816bc66200c8e17ee9110\*08334be8523f4b69bd4e2328db854329bfc81e2ea5a46d8ccf3bccf7c03d879d\*1\*1360\*\*1\*64\*bbc3babf62557aa4dfba705e24274e1aebf43907fe12f52eaf5395066f7cbdba |
| 13400 | Keepass 2 AES / with keyfile | $keepass$\*2\*6000\*222\*15b6b685bae998f2f608c909dc554e514f2843fbac3c7c16ea3600cc0de30212\*c417098b445cfc7a87d56ba17200836f30208d38f75a4169c0280bab3b10ca2a\*0d15a81eadccc58b1d3942090cd0ba66\*57c4aa5ac7295a97da10f8b2f2d2bfd7a98b0faf75396bc1b55164a1e1dc7e52\*2b822bb7e7d060bb42324459cb24df4d3ecd66dc5fc627ac50bf2d7c4255e4f8\*1\*64\*aaf72933951a03351e032b382232bcafbeeabc9bc8e6988b18407bc5b8f0e3cc |
| 13500 | PeopleSoft PS\_TOKEN | b5e335754127b25ba6f99a94c738e24cd634c35a:aa07d396f5038a6cbeded88d78d1d6c907e4079b3dc2e12fddee409a51cc05ae73e8cc24d518c923a2f79e49376594503e6238b806bfe33fa8516f4903a9b4 |
| 13600 | WinZip | $zip2$\*0\*3\*0\*e3222d3b65b5a2785b192d31e39ff9de\*1320\*e\*19648c3e063c82a9ad3ef08ed833\*3135c79ecb86cd6f48fc\*$/zip2$ |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_13711.vc> |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES-Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_13712.vc> |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent_13711.vc> |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-aes_13712.vc> |
| 13713 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-twofish-aes_13713.vc> |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish_13711.vc> |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish-serpent_13712.vc> |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc> |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + AES-Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc> |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc> |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc> |
| 13753 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc> |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc> |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc> |
| 13721 | VeraCrypt PBKDF2-HMAC-SHA512 + AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc> |
| 13722 | VeraCrypt PBKDF2-HMAC-SHA512 + AES-Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc> |
| 13721 | VeraCrypt PBKDF2-HMAC-SHA512 + Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc> |
| 13722 | VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc> |
| 13723 | VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-twofish-aes_13723.vc> |
| 13721 | VeraCrypt PBKDF2-HMAC-SHA512 + Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish_13721.vc> |
| 13722 | VeraCrypt PBKDF2-HMAC-SHA512 + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish-serpent_13722.vc> |
| 13731 | VeraCrypt PBKDF2-HMAC-Whirlpool + AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes_13731.vc> |
| 13732 | VeraCrypt PBKDF2-HMAC-Whirlpool + AES-Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes-twofish_13732.vc> |
| 13731 | VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent_13731.vc> |
| 13732 | VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-aes_13732.vc> |
| 13733 | VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-twofish-aes_13733.vc> |
| 13731 | VeraCrypt PBKDF2-HMAC-Whirlpool + Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish_13731.vc> |
| 13732 | VeraCrypt PBKDF2-HMAC-Whirlpool + Twofish-Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish-serpent_13732.vc> |
| 13741 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_boot.vc> |
| 13742 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES-Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_boot.vc> |
| 13743 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES-Twofish-Serpent | <https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish-serpent_boot.vc> |
| 13761 | VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Twofish | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_boot.vc> |
| 13762 | VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Serpent-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_boot.vc> |
| 13763 | VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Serpent-Twofish-AES | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_boot.vc> |
| 13761 | VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + PIM + AES 16 | <https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_boot_pim500.vc> |
| 13771 | VeraCrypt Streebog-512 + XTS 512 bit | TBD |
| 13772 | VeraCrypt Streebog-512 + XTS 1024 bit | TBD |
| 13773 | VeraCrypt Streebog-512 + XTS 1536 bit | TBD |
| 13800 | Windows Phone 8+ PIN/password | 95fc4680bcd2a5f25de3c580cbebadbbf256c1f0ff2e9329c58e36f8b914c11f:4471347156480581513210137061422464818088437334031753080747625028271635402815635172140161077854162657165115624364524648202480341513407048222056541500234214433548175101668212658151115765112202168288664210443352443335235337677853484573107775345675846323265745 |
| 13900 | OpenCart | 6e36dcfc6151272c797165fce21e68e7c7737e40:472433673 |
| 14000 | DES (PT = $salt, key = $pass) 8 | a28bc61d44bb815c:1172075784504605 |
| 14100 | 3DES (PT = $salt, key = $pass) 9 | 37387ff8d8dafe15:8152001061460743 |
| 14400 | sha1(CX) | fd9149fb3ae37085dc6ed1314449f449fbf77aba:87740665218240877702 |
| 14600 | LUKS 10 | <https://hashcat.net/misc/example_hashes/hashcat_luks_testfiles.7z> |
| 14700 | iTunes backup < 10.0 11 | $itunes\_backup$\*9\*b8e3f3a970239b22ac199b622293fe4237b9d16e74bad2c3c3568cd1bd3c471615a6c4f867265642\*10000\*4542263740587424862267232255853830404566\*\* |
| 14800 | iTunes backup >= 10.0 11 | $itunes\_backup$\*10\*8b715f516ff8e64442c478c2d9abb046fc6979ab079007d3dbcef3ddd84217f4c3db01362d88fa68\*10000\*2353363784073608264337337723324886300850\*10000000\*425b4bb4e200b5fd4c66979c9caca31716052063 |
| 14900 | Skip32 (PT = $salt, key = $pass) 12 | c9350366:44630464 |
| 15000 | FileZilla Server >= 0.9.55 | 632c4952b8d9adb2c0076c13b57f0c934c80bdc14fc1b4c341c2e0a8fd97c4528729c7bd7ed1268016fc44c3c222445ebb880eca9a6638ea5df74696883a2978:0608516311148050266404072407085605002866301131581532805665756363 |
| 15100 | Juniper/NetBSD sha1crypt | $sha1$15100$jiJDkz0E$E8C7RQAD3NetbSDz7puNAY.5Y2jr |
| 15200 | Blockchain, My Wallet, V2 | $blockchain$v2$5000$288$ |
| 15300 | DPAPI master key file version 1 + local context | $DPAPImk$1\*1\*S-15-21-466364039-425773974-453930460-1925\*des3\*sha1\*24000\*b038489dee5ad04e3e3cab4d957258b5\*208\*cb9b5b7d96a0d2a00305ca403d3fd9c47c561e35b4b2cf3aebfd1d3199a6481d56972be7ebd6c291b199e6f1c2ffaee91978706737e9b1209e6c7d3aa3d8c3c3e38ad1ccfa39400d62c2415961c17fd0bd6b0f7bbd49cc1de1a394e64b7237f56244238da8d37d78 |
| 15400 | ChaCha20 20 | $chacha20$\*0400000000000003\*16\*0200000000000001\*5152535455565758\*6b05fe554b0bc3b3 |
| 15500 | JKS Java Key Store Private Keys (SHA1) | $jksprivk$\*5A3AA3C3B7DD7571727E1725FB09953EF3BEDBD9\*0867403720562514024857047678064085141322\*81\*C3\*50DDD9F532430367905C9DE31FB1\*test |
| 15600 | Ethereum Wallet, PBKDF2-HMAC-SHA256 | $ethereum$p\*262144\*3238383137313130353438343737383736323437353437383831373034343735\*06eae7ee0a4b9e8abc02c9990e3730827396e8531558ed15bb733faf12a44ce1\*e6d5891d4f199d31ec434fe25d9ecc2530716bc3b36d5bdbc1fab7685dda3946 |
| 15700 | Ethereum Wallet, SCRYPT | $ethereum$s\*262144\*1\*8\*3436383737333838313035343736303637353530323430373235343034363130\*8b58d9d15f579faba1cd13dd372faeb51718e7f70735de96f0bcb2ef4fb90278\*8de566b919e6825a65746e266226316c1add8d8c3d15f54640902437bcffc8c3 |
| 15900 | DPAPI master key file version 2 + Active Directory domain context | $DPAPImk$2\*2\*S-15-21-423929668-478423897-489523715-1834\*aes256\*sha512\*8000\*740866e4105c77f800f02d367dd96699\*288\*ebc2907e16245dfe6c902ad4be70a079e62204c8a947498455056d150e6babb3c90b1616a8dff0e390dd26dda1978dffcbd7b9d7d1ea5c6d3e4df36db4d977051ec01fd6f0882a597c51834cb86445cad50c716f48b37cfd24339d8b43da771526fb01376798251edaa868fa2b1fa85c4142864b899987d4bbdc87b53433ed945fa4ab49c7f9d4d01df3ae19f25013b2 |
| 16000 | Tripcode | pfaRCwDe0U |
| 16100 | TACACS+ | $tacacs-plus$0$5fde8e68$4e13e8fb33df$c006 |
| 16200 | Apple Secure Notes | $ASN$\*1\*20000\*80771171105233481004850004085037\*d04b17af7f6b184346aad3efefe8bec0987ee73418291a41 |
| 16300 | Ethereum Pre-Sale Wallet, PBKDF2-HMAC-SHA256 | $ethereum$w\*\*f3abede76ac15228f1b161dd9660bb9094e81b1b\*d201ccd492c284484c7824c4d37b1593 |
| 16400 | CRAM-MD5 Dovecot | {CRAM-MD5}5389b33b9725e5657cb631dc50017ff1535ce4e2a1c414009126506fc4327d0d |
| 16500 | JWT (JSON Web Token) | eyJhbGciOiJIUzI1NiJ9.eyIzNDM2MzQyMCI6NTc2ODc1NDd9.f1nXZ3V\_Hrr6ee-AFCTLaHRnrkiKmio2t3JqwL32guY |
| 16600 | Electrum Wallet (Salt-Type 1-3) | $electrum$1\*44358283104603165383613672586868\*c43a6632d9f59364f74c395a03d8c2ea |
| 16700 | FileVault 2 | $fvde$1$16$84286044060108438487434858307513$20000$f1620ab93192112f0a23eea89b5d4df065661f974b704191 |
| 16800 | WPA-PMKID-PBKDF2 1 | 2582a8281bf9d4308d6f5731d0e61c61\*4604ba734d4e\*89acf0e761f4\*ed487162465a774bfba60eb603a39f3a |
| 16801 | WPA-PMKID-PMK 15 | 2582a8281bf9d4308d6f5731d0e61c61\*4604ba734d4e\*89acf0e761f4 |
| 16900 | Ansible Vault | $ansible$0\*0\*6b761adc6faeb0cc0bf197d3d4a4a7d3f1682e4b169cae8fa6b459b3214ed41e\*426d313c5809d4a80a4b9bc7d4823070\*d8bad190c7fbc7c3cb1c60a27abfb0ff59d6fb73178681c7454d94a0f56a4360 |
| 17200 | PKZIP (Compressed) | $pkzip2$1\*1\*2\*0\*e3\*1c5\*eda7a8de\*0\*28\*8\*e3\*eda7\*5096\*a9fc1f4e951c8fb3031a6f903e5f4e3211c8fdc4671547bf77f6f682afbfcc7475d83898985621a7af9bccd1349d1976500a68c48f630b7f22d7a0955524d768e34868880461335417ddd149c65a917c0eb0a4bf7224e24a1e04cf4ace5eef52205f4452e66ded937db9545f843a68b1e84a2e933cc05fb36d3db90e6c5faf1bee2249fdd06a7307849902a8bb24ec7e8a0886a4544ca47979a9dfeefe034bdfc5bd593904cfe9a5309dd199d337d3183f307c2cb39622549a5b9b8b485b7949a4803f63f67ca427a0640ad3793a519b2476c52198488e3e2e04cac202d624fb7d13c2\*$/pkzip2$ |
| 17210 | PKZIP (Uncompressed) | $pkzip2$1\*1\*2\*0\*1d1\*1c5\*eda7a8de\*0\*28\*0\*1d1\*eda7\*5096\*\*$/pkzip2$ |
| 17220 | PKZIP (Compressed Multi-File) | $pkzip2$3\*1\*1\*0\*8\*24\*a425\*8827\*d1730095cd829e245df04ebba6c52c0573d49d3bbeab6cb385b7fa8a28dcccd3098bfdd7\*1\*0\*8\*24\*2a74\*882a\*51281ac874a60baedc375ca645888d29780e20d4076edd1e7154a99bde982152a736311f\*2\*0\*e3\*1c5\*eda7a8de\*0\*29\*8\*e3\*eda7\*5096\*1455781b59707f5151139e018bdcfeebfc89bc37e372883a7ec0670a5eafc622feb338f9b021b6601a674094898a91beac70e41e675f77702834ca6156111a1bf7361bc9f3715d77dfcdd626634c68354c6f2e5e0a7b1e1ce84a44e632d0f6e36019feeab92fb7eac9dda8df436e287aafece95d042059a1b27d533c5eab62c1c559af220dc432f2eb1a38a70f29e8f3cb5a207704274d1e305d7402180fd47e026522792f5113c52a116d5bb25b67074ffd6f4926b221555234aabddc69775335d592d5c7d22462b75de1259e8342a9ba71cb06223d13c7f51f13be2ad76352c3b8ed\*$/pkzip2$ |
| 17225 | PKZIP (Mixed Multi-File) | $pkzip2$3\*1\*1\*0\*0\*24\*3e2c\*3ef8\*0619e9d17ff3f994065b99b1fa8aef41c056edf9fa4540919c109742dcb32f797fc90ce0\*1\*0\*8\*24\*431a\*3f26\*18e2461c0dbad89bd9cc763067a020c89b5e16195b1ac5fa7fb13bd246d000b6833a2988\*2\*0\*23\*17\*1e3c1a16\*2e4\*2f\*0\*23\*1e3c\*3f2d\*54ea4dbc711026561485bbd191bf300ae24fa0997f3779b688cdad323985f8d3bb8b0c\*$/pkzip2$ |
| 17230 | PKZIP (Compressed Multi-File Checksum-Only) | $pkzip2$8\*1\*1\*0\*8\*24\*a425\*8827\*3bd479d541019c2f32395046b8fbca7e1dca218b9b5414975be49942c3536298e9cc939e\*1\*0\*8\*24\*2a74\*882a\*537af57c30fd9fd4b3eefa9ce55b6bff3bbfada237a7c1dace8ebf3bb0de107426211da3\*1\*0\*8\*24\*2a74\*882a\*5f406b4858d3489fd4a6a6788798ac9b924b5d0ca8b8e5a6371739c9edcfd28c82f75316\*1\*0\*8\*24\*2a74\*882a\*1843aca546b2ea68bd844d1e99d4f74d86417248eb48dd5e956270e42a331c18ea13f5ed\*1\*0\*8\*24\*2a74\*882a\*aca3d16543bbfb2e5d2659f63802e0fa5b33e0a1f8ae47334019b4f0b6045d3d8eda3af1\*1\*0\*8\*24\*2a74\*882a\*fbe0efc9e10ae1fc9b169bd060470bf3e39f09f8d83bebecd5216de02b81e35fe7e7b2f2\*1\*0\*8\*24\*2a74\*882a\*537886dbabffbb7cac77deb01dc84760894524e6966183b4478a4ef56f0c657375a235a1\*1\*0\*8\*24\*eda7\*5096\*40eb30ef1ddd9b77b894ed46abf199b480f1e5614fde510855f92ae7b8026a11f80e4d5f\*$/pkzip2$ |
| 17300 | SHA3-224 | 412ef78534ba6ab0e9b1607d3e9767a25c1ea9d5e83176b4c2817a6c |
| 17400 | SHA3-256 | d60fcf6585da4e17224f58858970f0ed5ab042c3916b76b0b828e62eaf636cbd |
| 17500 | SHA3-384 | 983ba28532cc6320d04f20fa485bcedb38bddb666eca5f1e5aa279ff1c6244fe5f83cf4bbf05b95ff378dd2353617221 |
| 17600 | SHA3-512 | 7c2dc1d743735d4e069f3bda85b1b7e9172033dfdd8cd599ca094ef8570f3930c3f2c0b7afc8d6152ce4eaad6057a2ff22e71934b3a3dd0fb55a7fc84a53144e |
| 17700 | Keccak-224 | e1dfad9bafeae6ef15f5bbb16cf4c26f09f5f1e7870581962fc84636 |
| 17800 | Keccak-256 | 203f88777f18bb4ee1226627b547808f38d90d3e106262b5de9ca943b57137b6 |
| 17900 | Keccak-384 | 5804b7ada5806ba79540100e9a7ef493654ff2a21d94d4f2ce4bf69abda5d94bf03701fe9525a15dfdc625bfbd769701 |
| 18000 | Keccak-512 | 2fbf5c9080f0a704de2e915ba8fdae6ab00bbc026b2c1c8fa07da1239381c6b7f4dfd399bf9652500da723694a4c719587dd0219cb30eabe61210a8ae4dc0b03 |
| 18100 | TOTP (HMAC-SHA1) | 597056:3600 |
| 18200 | Kerberos 5 AS-REP etype 23 | $krb5asrep$23$user@domain.com:3e156ada591263b8aab0965f5aebd837$007497cb51b6c8116d6407a782ea0e1c5402b17db7afa6b05a6d30ed164a9933c754d720e279c6c573679bd27128fe77e5fea1f72334c1193c8ff0b370fadc6368bf2d49bbfdba4c5dccab95e8c8ebfdc75f438a0797dbfb2f8a1a5f4c423f9bfc1fea483342a11bd56a216f4d5158ccc4b224b52894fadfba3957dfe4b6b8f5f9f9fe422811a314768673e0c924340b8ccb84775ce9defaa3baa0910b676ad0036d13032b0dd94e3b13903cc738a7b6d00b0b3c210d1f972a6c7cae9bd3c959acf7565be528fc179118f28c679f6deeee1456f0781eb8154e18e49cb27b64bf74cd7112a0ebae2102ac |
| 18300 | Apple File System (APFS) | $fvde$2$16$58778104701476542047675521040224$20000$39602e86b7cea4a34f4ff69ff6ed706d68954ee474de1d2a9f6a6f2d24d172001e484c1d4eaa237d |
| 18400 | Open Document Format (ODF) 1.2 (SHA-256, AES) | $odf$\*1\*1\*100000\*32\*751854d8b90731ce0579f96bea6f0d4ac2fb2f546b31f1b6af9a5f66952a0bf4\*16\*2185a966155baa9e2fb597298febecbc\*16\*c18eaae34bcbbe9119be017fe5f8b52d\*0\* |
| 18500 | sha1(md5(md5($pass))) | 888a2ffcb3854fba0321110c5d0d434ad1aa2880 |
| 18600 | Open Document Format (ODF) 1.1 (SHA-1, Blowfish) | $odf$\*0\*0\*1024\*16\*bff753835f4ea15644b8a2f8e4b5be3d147b9576\*8\*ee371da34333b69d\*16\*a902eff54a4d782a26a899a31f97bef4\*0\* |
| 18700 | Java Object hashCode() | 29937c08 |
| 18800 | Blockchain, My Wallet, Second Password (SHA256) | YnM6WYERjJfhxwepT7zV6odWoEUz1X4esYQb4bQ3KZ7bbZAyOTc1MDM3OTc1NjMyODA0ECcAAD3vFoc= |
| 18900 | Android Backup | $ab$5\*0\*10000\*b8900e4885ff9cad8f01ee1957a43bd633fea12491440514ae27aa83f2f5c006ec7e7fa0bce040add619919b4eb60608304b7d571a2ed87fd58c9ad6bc5fcf4c\*7d254d93e16be9312fb1ccbfc6265c40cb0c5eab7b605a95a116e2383fb1cf12b688223f96221dcd2bf5410d4ca6f90e0789ee00157fa91658b42665d6b6844c\*fc9f6be604d1c59ac32664ec2c5b9b30\*00c4972149af3adcc235899e9d20611ea6e8de2212afcb9fcfefde7e35b691c2d0994eb47e4f9a260526ba47f4caea71af9c7fadcd5685d50126276f6acdd59966528b13ccc26036a0eaba2f2451aa64b05766d0edd03c988dcf87e2a9eec52d |
| 19000 | QNX /etc/shadow (MD5) | @m@75f6f129f9c9e77b6b1b78f791ed764a@8741857532330050 |
| 19100 | QNX /etc/shadow (SHA256) | @s@0b365cab7e17ee1e7e1a90078501cc1aa85888d6da34e2f5b04f5c614b882a93@5498317092471604 |
| 19200 | QNX /etc/shadow (SHA512) | @S@715df9e94c097805dd1e13c6a40f331d02ce589765a2100ec7435e76b978d5efc364ce10870780622cee003c9951bd92ec1020c924b124cfff7e0fa1f73e3672@2257314490293159 |
| 19300 | sha1($salt1.$pass.$salt2) | 630d2e918ab98e5fad9c61c0e4697654c4c16d73:18463812876898603420835420139870031762867:4449516425193605979760642927684590668549584534278112685644182848763890902699756869283142014018311837025441092624864168514500447147373198033271040848851687108629922695275682773136540885737874252666804716579965812709728589952868736177317883550827482248620334 |
| 19500 | Ruby on Rails Restful-Authentication | d7d5ea3e09391da412b653ae6c8d7431ec273ea2:238769868762:8962783556527653675 |
| 19600 | Kerberos 5 TGS-REP etype 17 (AES128-CTS-HMAC-SHA1-96) | $krb5tgs$17$user$realm$ae8434177efd09be5bc2eff8$90b4ce5b266821adc26c64f71958a475cf9348fce65096190be04f8430c4e0d554c86dd7ad29c275f9e8f15d2dab4565a3d6e21e449dc2f88e52ea0402c7170ba74f4af037c5d7f8db6d53018a564ab590fc23aa1134788bcc4a55f69ec13c0a083291a96b41bffb978f5a160b7edc828382d11aacd89b5a1bfa710b0e591b190bff9062eace4d26187777db358e70efd26df9c9312dbeef20b1ee0d823d4e71b8f1d00d91ea017459c27c32dc20e451ea6278be63cdd512ce656357c942b95438228e |
| 19700 | Kerberos 5 TGS-REP etype 18 (AES256-CTS-HMAC-SHA1-96) | $krb5tgs$18$user$realm$8efd91bb01cc69dd07e46009$7352410d6aafd72c64972a66058b02aa1c28ac580ba41137d5a170467f06f17faf5dfb3f95ecf4fad74821fdc7e63a3195573f45f962f86942cb24255e544ad8d05178d560f683a3f59ce94e82c8e724a3af0160be549b472dd83e6b80733ad349973885e9082617294c6cbbea92349671883eaf068d7f5dcfc0405d97fda27435082b82b24f3be27f06c19354bf32066933312c770424eb6143674756243c1bde78ee3294792dcc49008a1b54f32ec5d5695f899946d42a67ce2fb1c227cb1d2004c0 |
| 19800 | Kerberos 5, etype 17, Pre-Auth | $krb5pa$17$hashcat$HASHCATDOMAIN.COM$a17776abe5383236c58582f515843e029ecbff43706d177651b7b6cdb2713b17597ddb35b1c9c470c281589fd1d51cca125414d19e40e333 |
| 19900 | Kerberos 5, etype 18, Pre-Auth | $krb5pa$18$hashcat$HASHCATDOMAIN.COM$96c289009b05181bfd32062962740b1b1ce5f74eb12e0266cde74e81094661addab08c0c1a178882c91a0ed89ae4e0e68d2820b9cce69770 |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (AES) | <https://hashcat.net/misc/example_hashes/dc/hashcat_aes.dc> |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (Twofish) | <https://hashcat.net/misc/example_hashes/dc/hashcat_twofish.dc> |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (Serpent) | <https://hashcat.net/misc/example_hashes/dc/hashcat_serpent.dc> |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (AES-Twofish) | <https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish.dc> |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (Twofish-Serpent) | <https://hashcat.net/misc/example_hashes/dc/hashcat_twofish_serpent.dc> |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (Serpent-AES) | <https://hashcat.net/misc/example_hashes/dc/hashcat_serpent_aes.dc> |
| 20013 | DiskCryptor SHA512 + XTS 1536 bit (AES-Twofish-Serpent) | <https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish_serpent.dc> |
| 20200 | Python passlib pbkdf2-sha512 | $pbkdf2-sha512$25000$LyWE0HrP2RsjZCxlDGFMKQ$1vC5Ohk2mCS9b6akqsEfgeb4l74SF8XjH.SljXf3dMLHdlY1GK9ojcCKts6/asR4aPqBmk74nCDddU3tvSCJvw |
| 20300 | Python passlib pbkdf2-sha256 | $pbkdf2-sha256$29000$x9h7j/Ge8x6DMEao1VqrdQ$kra3R1wEnY8mPdDWOpTqOTINaAmZvRMcYd8u5OBQP9A |
| 20400 | Python passlib pbkdf2-sha1 | $pbkdf2$131000$r5WythYixPgfQ2jt3buXcg$8Kdr.QQEOaZIXNOrrru36I/.6Po |
| 20500 | PKZIP Master Key | f1eff5c0368d10311dcfc419 |
| 20510 | PKZIP Master Key (6 byte optimization) 17 | f1eff5c0368d10311dcfc419 |
| 20600 | Oracle Transportation Management (SHA256) | otm\_sha256:1000:1234567890:S5Q9Kc0ETY6ZPyQU+JYY60oFjaJuZZaSinggmzU8PC4= |
| 20710 | sha256(sha256($pass).$salt) | bfede293ecf6539211a7305ea218b9f3f608953130405cda9eaba6fb6250f824:7218532375810603 |
| 20800 | sha256(md5($pass)) | 74ee1fae245edd6f27bf36efc3604942479fceefbadab5dc5c0b538c196eb0f1 |
| 20900 | md5(sha1($pass).md5($pass).sha1($pass)) | 100b3a4fc1dc8d60d9bf40688d8b740a |
| 21000 | BitShares v0.x - sha512(sha512\_bin(pass)) | caec04bdf7c17f763a9ec7439f7c9abda112f1bfc9b1bb684fef9b6142636979b9896cfc236896d821a69a961a143dd19c96d59777258201f1bbe5ecc2a2ecf5 |
| 21100 | sha1(md5($pass.$salt)) | aade80a61c6e3cd3cac614f47c1991e0a87dd028:6 |
| 21200 | md5(sha1($salt).md5($pass)) | e69b7a7fe1bf2ad9ef116f79551ee919:baa038987e582431a6d |
| 21300 | md5($salt.sha1($salt.$pass)) | 799dc7d9aa4d3f404cc21a4936dbdcde:68617368636174 |
| 21400 | sha256(sha256\_bin(pass)) | 0cc1b58a543f372327aa0281e97ab56e345267ee46feabf7709515debb7ec43c |
| 21500 | SolarWinds Orion | $solarwinds$0$admin$fj4EBQewCQUZ7IYHl0qL8uj9kQSBb3m7N4u0crkKK0Uj9rbbAnSrBZMXO7oWx9KqL3sCzwncvPZ9hyDV9QCFTg== |
| 21600 | Web2py pbkdf2-sha512 | pbkdf2(1000,20,sha512)$744943$c5f8cdef76e3327c908d8d96d4abdb3d8caba14c |
| 21700 | Electrum Wallet (Salt-Type 4) | $electrum$4\*03eae309d8bda5dcbddaae8145469193152763894b7260a6c4ba181b3ac2ed5653\*\*1b0997cf64bb2c2ff88cb87bcacd9729d404bd46db18117c20d94e67c946fedc |
| 21800 | Electrum Wallet (Salt-Type 5) | $electrum$5\*02170fee7c35f1ef3b229edc90fbd0793b688a0d6f41137a97aab2343d315cce16\*\*33a7ee59d6d17ed1ee99dc0a71771227e6f3734b17ba36eb589bdced56244135 |
| 22000 | WPA-PBKDF2-PMKID+EAPOL 1 | WPA\*01\*4d4fe7aac3a2cecab195321ceb99a7d0\*fc690c158264\*f4747f87f9f4\*686173686361742d6573736964\*\*\* |
| 22001 | WPA-PMK-PMKID+EAPOL 18 | WPA\*01\*5ce7ebe97a1bbfeb2822ae627b726d5b\*27462da350ac\*accd10fb464e\*686173686361742d6573736964\*\*\* |
| 22100 | BitLocker | $bitlocker$1$16$6f972989ddc209f1eccf07313a7266a2$1048576$12$3a33a8eaff5e6f81d907b591$60$316b0f6d4cb445fb056f0e3e0633c413526ff4481bbf588917b70a4e8f8075f5ceb45958a800b42cb7ff9b7f5e17c6145bf8561ea86f52d3592059fb |
| 22200 | Citrix NetScaler (SHA512) | 2f9282ade42ce148175dc3b4d8b5916dae5211eee49886c3f7cc768f6b9f2eb982a5ac2f2672a0223999bfd15349093278adf12f6276e8b61dacf5572b3f93d0b4fa886ce |
| 22300 | sha256($salt.$pass.$salt) | 755a8ce4e0cf0baee41d714aa35c9fca803106608f718f973eab006578285007:11265 |
| 22400 | AES Crypt (SHA256) | $aescrypt$1\*efc648908ca7ec727f37f3316dfd885c\*eff5c87a35545406a57b56de57bd0554\*3a66401271aec08cbd10cf2070332214093a33f36bd0dced4a4bb09fab817184\*6a3c49fea0cafb19190dc4bdadb787e73b1df244c51780beef912598bd3bdf7e |
| 22500 | MultiBit Classic .key (MD5) | $multibit$1\*e5912fe5c84af3d5\*5f0391c219e8ef62c06505b1f6232858f5bcaa739c2b471d45dd0bd8345334de |
| 22600 | Telegram Desktop App Passcode (PBKDF2-HMAC-SHA1) | $telegram$1\*4000\*913a7e42143b4eed0fb532dacfa04e3a0eae036ae66dd02de76323046c575531\* |
| 22700 | MultiBit HD (scrypt) | $multibit$2\*2e311aa2cc5ec99f7073cacc8a2d1938\*e3ad782e7f92d66a3cdfaec43a46be29\*5d1cabd4f4a50ba125f88c47027fff9b |
| 22911 | RSA/DSA/EC/OpenSSH Private Keys ($0$) \* | $sshng$0$8$7532262427635482$1224$ |
| 22921 | RSA/DSA/EC/OpenSSH Private Keys ($6$) \* | $sshng$6$8$7620048997557487$1224$ |
| 22931 | RSA/DSA/EC/OpenSSH Private Keys ($1, $3$) \* | $sshng$1$16$14987802644369864387956120434709$1232$ |
| 22941 | RSA/DSA/EC/OpenSSH Private Keys ($4$) \* | $sshng$4$16$01684556100059289727957814500256$1232$ |
| 22951 | RSA/DSA/EC/OpenSSH Private Keys ($5$) \* | $sshng$5$16$52935050547964524511665675049973$1232$ |
| 23001 | SecureZIP AES-128 | $zip3$\*0\*1\*128\*0\*b4630625c92b6e7848f6fd86\*df2f62611b3d02d2c7e05a48dad57c7d93b0bac1362261ab533807afb69db856676aa6e350320130b5cbf27c55a48c0f75739654ac312f1cf5c37149557fc88a92c7e3dde8d23edd2b839036e88092a708b7e818bf1b6de92f0efb5cce184cceb11db6b3ca0527d0bdf1f1137ee6660d9890928cd80542ac1f439515519147c14d965b5ba107c6227f971e3e115170bf\*0\*0\*0\*file.txt |
| 23002 | SecureZIP AES-192 | $zip3$\*0\*1\*192\*0\*53ff2de8c280778e1e0ab997\*603eb37dbab9ea109e2c405e37d8cae1ec89e1e0d0b9ce5bf55d1b571c343b6a3df35fe381c30249cb0738a9b956ba8e52dfc5552894296300446a771032776c811ff8a71d9bb3c4d6c37016c027e41fea2d157d5b0ce17804b1d7c1606b7c1121d37851bd705e001f2cd755bbf305966d129a17c1d48ff8e87cfa41f479090cd456527db7d1d43f9020ad8e73f851a5\*0\*0\*0\*file.txt |
| 23003 | SecureZIP AES-256 | $zip3$\*0\*1\*256\*0\*39bff47df6152a0214d7a967\*65ff418ffb3b1198cccdef0327c03750f328d6dd5287e00e4c467f33b92a6ef40a74bb11b5afad61a6c3c9b279d8bd7961e96af7b470c36fc186fd3cfe059107021c9dea0cf206692f727eeca71f18f5b0b6ee1f702b648bba01aa21c7b7f3f0f7d547838aad46868155a04214f22feef7b31d7a15e1abe6dba5e569c62ee640783bb4a54054c2c69e93ece9f1a2af9d\*0\*0\*0\*file.txt |
| 23100 | Apple Keychain | $keychain$\*74cd1efd49e54a8fdc8750288801e09fa26a33b1\*66001ad4e0498dc7\*5a084b7314971b728cb551ac40b2e50b7b5bd8b8496b902efe7af07538863a45394ead8399ec581681f7416003c49cc7 |
| 23200 | XMPP SCRAM PBKDF2-SHA1 | $xmpp-scram$0$4096$32$bbc1467455fd9886f6c5d15200601735e159e807d53a1c80853b570321aaeceb$8301c6e0245e4a986ed64a9b1803afb1854d9712 |
| 23300 | Apple iWork \* | $iwork$2$1$1$4000$b31b7320d1e7a5ee$01f54d6f9e5090eb16fef2b05f8242bc$69561c985268326b7353fb22c3685a378341127557bd2bbea1bd10afb31f2127344707b662a2c29480c32b8b93dea0538327f604e5aa8733be83af25f370f7ac |
| 23400 | Bitwarden 21 \* | $bitwarden$1\*100000\*bm9yZXBseUBoYXNoY2F0Lm5ldA==\*zAXL7noQxkIJG82vWuqyDsnoqnKAVU7gE/8IRI6BlMs= |
| 23500 | AxCrypt 2 AES-128 \* | $axcrypt$\*2\*10000\*6d44c6d19076bce9920c5fb76b246c161926ce65abb93ec2003919d78898aadd5bc6e5754201ff25d681ad89fa2861d20ef7c3fd7bde051909dfef8adcb50491\*68f78a1b80291a42b2a117d6209d3eb3541a8d47ed6b970b2b8294b2bc78347fc2b494a0599f8cba6d45e88fd8fbc5b4dd7e888f6c9543e679489de132167222e130d5925278693ad8599284705fdf99360b2199ed0005be05867b9b7aa6bb4be76f5f979819eb27cf590a47d81830575b2af09dda756360c844b89c7dcec099cfdd27d2d0c95d24f143405f303e4843\*1000\*debdeb8ea7b9800b01855de09b105fdb8840efc1f67dc742283d13a5570165f8 |
| 23600 | AxCrypt 2 AES-256 \* | $axcrypt$\*2\*10000\*79bea2d51670484a065241c52613b41a33bf56d2dda9993770e8b0188e3bbf881bea6552a2986c70dc97240b0f91df2eecfa2c7044998041b3fbd58369cfef79\*4982f7a860d4e92079bc677c1f89304aa3a2d9ab8c81efaff6c78a12e2873a3a23e6ae6e23a7144248446d8b44e3e82b19a307b2105570a39e1a7bed70b77bbf6b3e85371fe5bb52d1d4c7fcb3d755b308796ab7c4ff270c9217f05477aff5e8e94e5e8af1fba3ce069ce6fc94ae7aeebcb3da270cab672e95c8042a848cefc70bde7201b52cba9a8a0615ac70315792\*1000\*e2438859e86f7b4076b0ee4044ad5d17c3bb1f5a05fcb1af28ed7326cf71ced2 |
| 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 |
| 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 2 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 Fist0urs](https://github.com/Fist0urs/AxSuite) to retrieve the hashes.  
14 Password: a288fcf0caaacda9a9f58633ff35e8992a01d9c10ba5e02efdf8cb5d730ce7bc  
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',LEFT(authentication\_string,6),'\*',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>

**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 |
| 101 | nsldap, SHA-1(Base64), Netscape LDAP SHA | {SHA}uJ6qx+YUFzQbcQtyd2gpTQ5qJ3s= |
| 111 | nsldaps, SSHA-1(Base64), Netscape LDAP SSHA | {SSHA}AZKja92fbuuB9SpRlHqaoXxbTc43Mzc2MDM1Ng== |
| 112 | Oracle S: Type (Oracle 11+) | ac5f1e62d21fd0529428b84d42e8955b04966703:38445748184477378130 |
| 121 | SMF (Simple Machines Forum) > v1.1 | ecf076ce9d6ed3624a9332112b1cd67b236fdd11:17782686 |
| 122 | OSX v10.4, OSX v10.5, OSX v10.6 | 1430823483d07626ef8be3fda2ff056d0dfd818dbfe47683 |
| 124 | Django (SHA-1) | sha1$fe76b$02d5916550edf7fc8c886f044887f4b1abf9b013 |
| 125 | ArubaOS | 5387280701327dc2162bdeb451d5a465af6d13eff9276efeba |
| 131 | MSSQL (2000) | 0x01002702560500000000000000000000000000000000000000008db43dd9b1972a636ad0c7d4b8c515cb8ce46578 |
| 132 | MSSQL (2005) | 0x010018102152f8f28c8499d8ef263c53f8be369d799f931b2fbe |
| 133 | PeopleSoft | uXmFVrdBvv293L9kDR3VnRmx4ZM= |
| 141 | Episerver 6.x < .NET 4 | $episerver$\*0\*bEtiVGhPNlZpcUN4a3ExTg==\*utkfN0EOgljbv5FoZ6+AcZD5iLk |
| 1411 | SSHA-256(Base64), LDAP {SSHA256} | {SSHA256}OZiz0cnQ5hgyel3Emh7NCbhBRCQ+HVBwYplQunHYnER7TLuV |
| 1421 | hMailServer | 8fe7ca27a17adc337cd892b1d959b4e487b8f0ef09e32214f44fb1b07e461c532e9ec3 |
| 1441 | Episerver 6.x >= .NET 4 | $episerver$\*1\*MDEyMzQ1Njc4OWFiY2RlZg==\*lRjiU46qHA7S6ZE7RfKUcYhB85ofArj1j7TrCtu3u6Y |
| 1711 | SSHA-512(Base64), LDAP {SSHA512} | {SSHA512}ALtwKGBdRgD+U0fPAy31C28RyKYx7+a8kmfksccsOeLknLHv2DBXYI7TDnTolQMBuPkWDISgZr2cHfnNPFjGZTEyNDU4OTkw |
| 1722 | OSX v10.7 | 648742485c9b0acd786a233b2330197223118111b481abfa0ab8b3e8ede5f014fc7c523991c007db6882680b09962d16fd9c45568260531bdb34804a5e31c22b4cfeb32d |
| 1731 | MSSQL (2012, 2014) | 0x02000102030434ea1b17802fd95ea6316bd61d2c94622ca3812793e8fb1672487b5c904a45a31b2ab4a78890d563d2fcf5663e46fe797d71550494be50cf4915d3f4d55ec375 |
| 2611 | vBulletin < v3.8.5 | 16780ba78d2d5f02f3202901c1b6d975:568 |
| 2612 | PHPS | $PHPS$34323438373734$5b07e065b9d78d69603e71201c6cf29f |
| 2711 | vBulletin >= v3.8.5 | bf366348c53ddcfbd16e63edfdd1eee6:181264250056774603641874043270 |
| 2811 | IPB2+ (Invision Power Board), MyBB 1.2+ | 8d2129083ef35f4b365d5d87487e1207:47204 |
| 3711 | MediaWiki B type | $B$56668501$0ce106caa70af57fd525aeaf80ef2898 |
| 4521 | Redmine | 1fb46a8f81d8838f46879aaa29168d08aa6bf22d:3290afd193d90e900e8021f81409d7a9 |
| 4522 | PunBB | 4a2b722cc65ecf0f7797cdaea4bce81f66716eef:653074362104 |
| 4711 | Huawei sha1(md5($pass).$salt) | 53c724b7f34f09787ed3f1b316215fc35c789504:hashcat1 |
| 7401 | MySQL $A$ (sha256crypt) 19 | $mysql$A$005\*F9CC98CE08892924F50A213B6BC571A2C11778C5\*625479393559393965414D45316477456B484F41316E64484742577A2E3162785353526B7554584647562F |
| 12001 | Atlassian (PBKDF2-HMAC-SHA1) | {PKCS5S2}NzIyNzM0NzY3NTIwNjI3MdDDis7wPxSbSzfFqDGf7u/L00kSEnupbz36XCL0m7wa |
| 20711 | AuthMe sha256 | $SHA$7218532375810603$bfede293ecf6539211a7305ea218b9f3f608953130405cda9eaba6fb6250f824 |
| 22301 | Telegram Mobile App Passcode (SHA256) | $telegram$0\*518c001aeb3b4ae96c6173be4cebe60a85f67b1e087b045935849e2f815b5e41\*25184098058621950709328221838128 |

**Legacy hash types**

These hash types are only supported in [hashcat-legacy](https://hashcat.net/wiki/doku.php?id=hashcat-legacy) or [oclHashcat](https://hashcat.net/wiki/doku.php?id=oclhashcat).

| **Hash-Mode** | **Hash-Name** | **Example** |
| --- | --- | --- |
|  |  | 0x326C6D7B4E4F794B79474E36704F35723958397163735263516265456E31 0xAFC55E260B8F45C0C6512BCE776C1AD8312B56E6 |
|  | 2 | b89eaac7e61417341b710b727768294d0e6a277b |
|  | 1 | npKD5jP0p6QtOryTcBFVvor+VmDaJMh1jn01M+Ly3II= |
|  | 1 | $md5$rounds=904$iPPKEBnEkp3JV8uX$0L6m7rOFTVFn.SGqo2M9W1 |
|  | 1 | 9882d0778518b095917eb589f6998441 |
|  | 1 | 7b57255a15958ef898543ea6cc3313bc:1234 |
|  | 1 | 10ce488714fdbde9453670e0e4cbe99c:1234 |
|  | 1 | fa01af9f0de5f377ae8befb03865178e:​5678 |
|  | 1 | 09ea048c345ad336ebe38ae5b6c4de24:1234 |
|  | 1 | dc57f246485e62d99a5110afc9264b4ccbfcf3cc |

1 Supported in [hashcat-legacy](https://hashcat.net/wiki/doku.php?id=hashcat-legacy)  
2 Supported in [oclHashcat](https://hashcat.net/wiki/doku.php?id=oclhashcat)

**Superseded hash types**

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 |