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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) | 01dfa6e5d4d90d9892622325959afbe:7050461 |
| 20 | md5(\$salt.\$pass) | f0fdab58630310a6dd91a7d8f0a4ceda2:4225637426 |
| 30 | md5(utf16le(\$pass).\$salt) | b31d032cfdfc47a399990a71e43c5d2a:144816 |
| 40 | md5(\$salt.utf16le(\$pass)) | d63d0e21fdc05f618d55ef306c54af82:13288442151473 |
| 50 | HMAC-MD5 (key = \$pass) | fc741db0a2968c39d9c2a5cc75b05370:1234 |
| 60 | HMAC-MD5 (key = \$salt) | bfdb20a436f45fa38eaacac3b00518f29:1234 |
| 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) | c57f6ac1b71f45a07dbd91a59fa47c23abcd87c2:631225 |
| 140 | sha1(\$salt.utf16le(\$pass)) | 5db61e4cd8776c7969cf62456da639a4c87683a:8763434884872 |
| 150 | HMAC-SHA1 (key = \$pass) | c898896f3f70f61bc3fb1bef22aa860e5ea717:1234 |
| 160 | HMAC-SHA1 (key = \$salt) | d89c92b4400b15c39e462a8caa939ab40c3aeeeaa:1234 |
| 170 | sha1(utf16le(\$pass)) | b9798556b741befdbddcbf640d1dd59d19b1e193 |
| 200 | MySQL323 | 7196759210defdc0 |
| 300 | MySQL4.1/MySQL5 | fcf7c1b8749cf99d88e5f34271d636178fb5d130 |
| 400 | phpass, WordPress (MD5), Joomla (MD5) | \$P\$9844784761agS59wHzvyQMarzfx58u. |
| 400 | phpass, phpBB3 (MD5) | \$H\$9844784761agS59wHzvyQMArzfx58u. |
| 500 | md5crypt, MD5 (Unix), Cisco-IOS \$1\$ (MD5) ² | \$1\$28772684\$iEwNOgGuggQ9.b1z5sk8k/ |
| 501 | Juniper IVE | 3u+UR6n8AgABAAAHHxdXKmioMuoqKnZlf8lOhiPYy93EakbPfs+49YLFd/B1+omSKbW7DoqNM40/EeVnwJ8kYoXv9zy9D5C5m5A== |
| 600 | BLAKE2b-512 | \$BLAKE2\$296c269e70ac5f0095e6fb47693480f07b97cc0d307f5c3bfa4d8f5ca5c9308a0e7108e0a0a9c0eb715e8b7109b072046c6cd5e155b4cf2f27216283b1e |
| 610 | BLAKE2b-512(\$pass.\$salt) | \$BLAKE2\$41fd44c789c735c08b43a871b1c8f617ca3918d38aee6cf8291c58a0b00a03115857425e5ff6f044be7a5bec8536b52d6c9992e21cd43cdca8a55bbf1f5c1:1033 |
| 620 | BLAKE2b-512(\$salt.\$pass) | \$BLAKE2\$b0325fdfc3f82a149354427adbc69d4636d67276a85b09f8de368f122cf5195a0b780d7fee709fbf1dc02ddcb581df84508cf1fb0f3393af1be0565491c6:3301 |
| 900 | MD4 | afe04867ec7a3845145579a95f72eca7 |
| 1000 | NTLM | b4b9b02e6f09a9bd760f388b67351e2b |
| 1100 | Domain Cached Credentials (DCC), MS Cache | 4dd8965d1d476fa0d026722989a6b772:3060147285011 |
| 1300 | SHA2-224 | e4fa1555ad877bf0ec455483371867200eee89550a93eff2f95a6198 |
| 1310 | sha224(\$pass.\$salt) | 0cf361904fb0234cf4ade8496d8c11c04e5982d967603e82f2b2f:89452466460220844541730694146873525188525677 |
| 1320 | sha224(\$salt.\$pass) | 4258a61d3d0d5a5b6796f0ab02d081e998fe657d55d22091d3b51409:36669207 |
| 1400 | SHA2-256 | 127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2cabaf93 |
| 1410 | sha256(\$pass.\$salt) | c73d08de8904795186d0cf670d17faa26a4a71f995c1dcc978165399401a6c4:53743528 |
| 1420 | sha256(\$salt.\$pass) | eb368a2fd38b405f014118c7d9747fc974f0e75c05963cd9da6e65ef498:560407001617 |
| 1430 | sha256(utf16le(\$pass)).\$salt) | 4cc8eb60476c33edac52b5a7548c250ef0f9e31ce656c6f4b213f01b87421:890128 |
| 1440 | sha256(\$salt.utf16le(\$pass)) | a4bd99e1e0aba51814e81388badb23ecc560312c4324b2018ea76393ea1cac9:12345678 |

| Hash-Mode | Hash-Name | Example |
|-----------|--|---|
| 6050 | HMAC-RIPEMD160 (key = \$pass) * | 4f5edca01734e03dd7e735362625a76e6bcb61b2:52355614946067 |
| 6060 | HMAC-RIPEMD160 (key = \$salt) * | 34d8e55a2ae1e9549a291326ce2f0a8dc075c:08523202563542341 |
| 6100 | Whirlpool | 7ca8aaaa15eaa4c038b4c47b9313e92da827c06947f85bc0fbef3eb8fd254da220ad9e208b6b28f6bb9be31dd760f1fdb26112d83f87d96b416a4d258 |
| 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\$VfvgyHx1xUIXZYBocQpQY0 |
| 6400 | AIX {ssha256} | {ssha256}06\$ajckFGJAB30LTe10\$ohUsB7LBPlgclE3hJg9x042DLJvQyxVCX.nZZLEz.g2 |
| 6500 | AIX {ssha512} | {ssha512}06\$bjbkFGJAB30L2e23\$bXijyH5YGlyWWRmEVwq67nCU57GLy9HkCzrodRCQCx3r9vG98o7O3V0r9cVrX3LPPGuHqT5LLn0oGCuI.. |
| 6600 | 1Password, agilekeychain | https://hashcat.net/misc/example_hashes/hashcat_agilekeychain [https://hashcat.net/misc/example_hashes/hashcat_agilekeychain] |
| 6700 | AIX {sha1} | {ssha1}06\$bjbkFGJAB30L2e23\$CESGOp7jaII1QAcmaGeG.kr |
| 6800 | LastPass + LastPass sniffed ⁴ | a2d1f7b7a1862d0d4a52644e72d59df5:500:lp@trash-mail.com |
| 6900 | GOST R 34.11-94 | df226c2c6dc1d995c0299a33a084b201544293c31fc3d279530121d36bbcea9 |
| 7000 | FortiGate (FortiOS) | AK1AAECawQFBgcICRARNgqeC3is8gv2xWWRony9NjNdgE= |
| 7200 | GRUB 2 | grub.pbkdf2.sha512.10000.7d391ef48645f626b427b1fae0a67219b5b54f4f02b2621f86b5e36e83ae492bd1db60871e45bc07925cecb46ff8ba3db31c723c0c6acbd4f06f60c5b250df90d043f070bd9cbc92a74424da42b3666fdeb08f1a54b8f1d2 |

| 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 ⁵ | c762de4a:00000000 |
| 11600 | 7-Zip | \$7z\$0\$19\$0\$0\$salt\$8sf6196259a7326e3f000000000000000\$185065650\$112\$98\$f3bc2a88062c419a25acd40c0c2d75421cf23263f69c51b13f9b1aada41a8a09f9adeae45d67c60b56aad338f20c0dcc5eb811c7a61128ee0746f922cdb9c59096869f341c7a9cb1ac |
| 11700 | GOST R 34.11-2012 (Streebog) 256-bit, big-endian | 57e9e50caec93d72e9498c211d6dc4fd328248b48efc46ba7abfa874f666e36 |
| 11750 | HMAC-Streebog-256 (key = \$pass), big-endian | 0f71c7c82700c9094ca95eee3d804cc283b538bec49428aef8da7b34effb3ba:08151337 |
| 11760 | HMAC-Streebog-256 (key = \$salt), big-endian | d5c6b874338a492ac57dcd6871afc3c70dcfd264185a69d84cf839a07ef92b2c:08151337 |
| 11800 | GOST R 34.11-2012 (Streebog) 512-bit, big-endian | 5d5bdb4a8c8f89ee6c0a0e11023540424283e84902de08013aaeb626e819950b32842903593a1d2e8f71897ff7fe7e2e17ac9ba8ce1d1d2f7e9c4359ea63bcd3 |
| 11850 | HMAC-Streebog-512 (key = \$pass), big-endian | be4555415af4a05078dcf260bb3c0a35948135dfdf9f3f7c8b0574ceb0d71ea4312127f839b7707bf39cc932d9e7cb799671183455889e8dde3738dfab5b6:08151337 |
| 11860 | HMAC-Streebog-512 (key = \$salt), big-endian | bebfb631b3f9f58ac8345a88cb98f30cb0374cff13e6012818487c8dc8d585f723bca2caed280195ad558b8ce393503e632e901e8d1eb2ccb349a544ac195f6:08151337 |
| 11900 | PBKDF2-HMAC-MD5 | md5:1000:MTg1MzA=:Lz84V0crXld699Edsj34PP98+f4f3S0rT4kHAIHoAjs= |
| 12000 | PBKDF2-HMAC-SHA1 | sha1:1000:MzU4NTA4MzIzNzA1MDQ=:19ofiy+ahBXhvkdSp0j2ww== |
| 12100 | PBKDF2-HMAC-SHA512 | sha512:1000:ODQyMDewNjQyODY=:MkaHNWXUsuB3JewBhbm3w== |
| 12150 | Apache Shiro 1 SHA-512 | \$shiro\$1\$SHA-512\$1024\$WobJGSjbUhsmDaILomMODw=\$9uptGJ24vzCqZ155F77N7xJuxGIVrK5aCmAwIrV1vwDmFM4akE6Hmd23Aj8ANLSUDiEkHLZ6SnoitZbOsoQNQ== |
| 12200 | eCryptfs | \$ecryptfs\$0\$1\$7c95c4682f364b3\$60bba3f03a42d0c |
| 12300 | Oracle T: Type (Oracle 12+) | 78281A9C0CF626BD05EFC4F41B515861D6C4D95A250CD4A605CA0EF97168D670EBCB5673B6F5A2FB9CC4E0C0101E659C0C4E3B9B3BEDA846CD15508E88685A2334141655046766111066420254008225 |
| 12400 | BSDi Crypt, Extended DES | _9G..8147mpcfKT8gOU. |
| 12500 | RAR3-hp | \$RAR3\$*0*45109af8ab5f297a*adbufc5385d7a40373e8f77d7b89d317 |
| 12600 | ColdFusion 10+ | aae9edab5653f509c4c63e559a5e967b4c112273bc6bd84525e630a3f9028dc8:5136256866783777334574783782810410706883233321141647265340462733 |
| 12700 | Blockchain, My Wallet | \$blockchain\$28\$5420055827231730710301348670802335e45af6f631113bc1148a6e96c645ac69881625a115fd352563d0908217182f89bdd53256a764e3552d3bfe68624ff89bb6de60687ff1ebb3cbf4e253e3bea0fe9d12d6e8325ddc48cc924666dc171 |
| 12800 | MS-AzureSync PBKDF2-HMAC-SHA256 | v1;PPH1_MD4_84840328224366186645,100,005a91d8bf3715085d69f934eef7fb19a15ffc233b5382d9827910bc32f3506 |
| 12900 | Android FDE (Samsung DEK) | 384218541184126257684081604771129b6258eb22fc8b9d08e04e6450f72b98725d7d4fcad6fb6aec4ac2a79d0c6ff738421854118412625768408160477112 |
| 13000 | RARS | \$rar\$1\$6s74575567518807622265582327032280\$15fb0464de34ac02ecabf9ab9f93ed6a89843834ed0f7c754 |
| 13100 | Kerberos 5, etype 23, TGS-REP | \$krb5tgss23\$*user\$realm\$test\$spn\$63386d22d359fe4220300d56852c9eb\$891ad31d09ab9c6b3b8c5e5de6c06a7f49fd559d7a9a3c32576c8fedf705376cea582b5938f7fc8b741acf05c5990741b36ef4311fe3562a41b70a4ec8a49905f2385b53799d2 |
| 13200 | AxCrypt 1 | \$axcrypt\$*1*10000*aaf4a5b4a7185551fea2585ed69fe246*45c616e901e48c6ac99113393be259c595325e |
| 13300 | AxCrypt 1 in-memory SHA1 ¹³ | \$axcrypt_sha1\$b89eaac7e61417341b710b27768294d0e6a277b |
| 13400 | KeePass 1 AES / without keyfile | \$keepass\$*1*50000*0*375756b9e6c72891a8e5645a3338b8c*82afc053e8e1a6cfa39adae4f5fe5e59f545a54d6956593d1709b39cad7f796*c698fbfc7d1b71431d10611e2216ab21*24a63140f4eb3bfd7d59b7694eea38d1d93a43bc3af989755d2b326286c4d5 |
| 13400 | KeePass 2 AES / without keyfile | \$keepass\$*2*6000*222*279e37c38b0124559a83fa452a0269d56d4c119a5866d18e76f1f3fd536d64d*7ec7a06bc975ea2ae78dc99e826a308564849b6b25d858cbc78475af3733*f477c849b72278b7a1f626c81e343553*38c8ec186141c2705f2bcb334a73 |
| 13400 | KeePass 1 Twofish / with keyfile | \$keepass\$*1*6000*1*3lc087828b0b76362c10cae773aacf*6d6c7804f82e2bccd3b96670cf490194c25ea8c31b3caeab3fc56e65fac16d721f*a735e88c0181b6c62600c8e17ee9110*08334be8523f4b69bd4e2328db854329bf81e2ea5a46d8ccf3bccf7c03d879d* |
| 13400 | KeePass 2 AES / with keyfile | \$keepass\$*2*6000*222*15b6b58bae998f2f608c909dc554e154f2843fbac3c716ea3600c0de30212*c4170945fc7a87d56b17200836f3020838f75a4169c0280bab3b10ca2a*0d15a81eadccc58b1d3942090cd0ba66*57c4aa5ac7295a97da10f8b2f2d2b1 |
| 13500 | PeopleSoft PS_TOKEN | b5e335754127b25ba6f99a94c738e24d6343c5:a0a07d396f5038a6cbed88d71d6c907e4079b3c2e12fdee409a51c05ae73e8cc24d518c923a2f79e49376594503e6328b806bf33fa8516f4903a9b4 |
| 13600 | WinZip | \$zip\$0*3*0*3*3222d3b65b5a2785b192d31e39ff9de*1320*e*19648c3e063c82a9ad3e08ed83*\$313c79ecb86ccdf648fc*\$/zip\$ |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_13711.vc] |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES-Twofish (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_13712.vc] |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent_13711.vc] |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-AES (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-aes_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-aes_13712.vc] |
| 13713 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-twofish-aes_13713.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-twofish-aes_13713.vc] |
| 13711 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish_13711.vc] |
| 13712 | VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish-serpent_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish-serpent_13712.vc] |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + AES (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc] |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + AES-Twofish (legacy) | 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] |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc] |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-AES (legacy) | 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] |
| 13753 | VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-Twofish-AES (legacy) | 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] |
| 13751 | VeraCrypt PBKDF2-HMAC-SHA256 + Twofish (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc] |
| 13752 | VeraCrypt PBKDF2-HMAC-SHA256 + Twofish-Serpent (legacy) | 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] |
| 13721 | VeraCrypt PBKDF2-HMAC-SHA512 + AES (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc] |
| 13722 | VeraCrypt PBKDF2-HMAC-SHA512 + AES-Twofish (legacy) | 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] |
| 13721 | VeraCrypt PBKDF2-HMAC-SHA512 + Serpent (legacy) | https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc] |
| 13722 | VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-AES (legacy) | 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] |

| Hash-Mode | Hash-Name | Example |
|-----------|---|--|
| 16000 | Tripcode | pfaRCwDe0U |
| 16100 | TACACS+ | \$tacacs-plus\$0\$5fde8e68\$4e13e8fb33df\$c006 |
| 16200 | Apple Secure Notes | \$ASN\$1*20000*8077117110523348100485004085037*d04b17af7f6b184346aad3efefe8bec0987ee73418291a41 |
| 16300 | Ethereum Pre-Sale Wallet, PBKDF2-HMAC-SHA256 | \$ethereum\$w*94a8e49deac2d62206bf9fb7d2aaea7eb06c1a378cf1ac056cc599a569793c0ecc040e6a0c242dee2812f06b644d70f43331b1fa2ce4bd6ccb9f62dd25b443235bdb4c1ffb222084c9ded8c719624b338f17e0fd827b34d79801298ac75f74ed97ae16f72 |
| 16400 | CRAM-MDS Dovecot | {CRAM-MDS}5389b33b9725e5657cb631dc50017/f1535ce4e2a1c414009126506fc4327d0d |
| 16500 | JWT (JSON Web Token) | eyJhbGciOiJIUzI1NiJ9eyJzdldM2MzQyMC16NTc2ODc1Nd9.f1nXZ3V_Hrr6ee-AFCTLaHRnrkiKmio2t3JqwL32guY |
| 16600 | Electrum Wallet (Salt-Type 1-3) | \$electrum\$1*44358283104603165383613672586868*c43a6632d9f59364f74c395a03d8c2ea |
| 16700 | FileVault 2 | \$fvde\$1\$16\$b8428604406010843848743485830751\$200005f1620ab931921120a23eea9b5d4df065661f974b704191 |
| 16800 | WPA-PMKID-PBKDF2 ¹ | 2582a8281bf9d4308d6f5731d0e61c61*4604ba734d4e*89acf0e761f4*ed487162465a774bfba60eb603a39f3a |
| 16801 | WPA-PMKID-PMK ¹⁵ | 2582a8281bf9d4308d6f5731d0e61c61*4604ba734d4e*89acf0e761f4 |
| 16900 | Ansible Vault | \$ansible\$0*0\$6b761adc6faeb0cc0bf197d3d4a47d3f1682e4b169cae8fa6b459b3214ed41e*426d313c5809d4a80a4b9bc7d4823070*d8bad190c7fbc7c3cb1c60a27abf0ff59d6fb73178681c7454d94a0f56a4360 |
| 17010 | PGP (AES-128/AES-256 (SHA-1(\$pass))) * | \$gpg\$*1*348*1024*8833fa3812b5500aa9eb7e46febf31a0584b7e4a5b13c198f5c9b0814243895cce45ac3714e79692fb5a130a1c943b9130135ce303cb7e6831be68ce427892858f313fc29f533434dbe0ef26573f2071bcc1499dc49bda90648221ef3823757e2f |
| 17020 | PGP (AES-128/AES-256 (SHA-512(\$pass))) * | \$gpg\$*1*668*2048*57e1f19c69a86038e23d7e5af5d810f4f86d32e9aaa0f4b54281cda2194dc99ee1f23f4aa3a011d5d2d9e47689c449f398d315f91a03f4765742d20a7046e986a9696f0e07380a73fdd61e7ab2caa463a049a5869e008e16bb30d22f93f9aa8b0f |
| 17030 | PGP (AES-128/AES-256 (SHA-256(\$pass))) * | \$gpg\$*1*668*2048*75985b4e7d0bce9e38925a5c6f9494ea9a2ccfe2973f07d9423642ffec8bee0e327178a4a3431875ca1f377b9f89269e7c42b94150859d9e5bf5c4504d63076b270118183da75d253492be8b680c0061e7f130010a00a09a045610051f2483 |
| 17200 | PKZIP (Compressed) | \$pkzip\$2*1*1*2*0*e3*5c1*eda7*8de*28*8*3*eda*7*096*9*a9fc1f49e5b3031a6f903e5f4e3211c8fd4671547bf77f6f682aafbfc7475d3898985621a7a9f9cccd1349d1976500a68c48f630b7f22d7a0955524d768e34868880461335417ddd149c65a917c0et |
| 17210 | PKZIP (Uncompressed) | \$pkzip\$2*1*1*2*0*1d1*c5*eda7*8a*0*28*0*1d1*eda7*5096*1dea673da43d9fc7e2b1a1f4f664269fce6cb88723a97408ae1fe0f774d31d1442ea8485081e63f919851ca0b7588d5e3442317ff19fe547a4ef97492ed75417c427eea3c4e146e16c100a8b6a |
| 17220 | PKZIP (Compressed Multi-File) | \$pkzip\$2*3*1*1*0*8*24*425*8827*d1730095cd8298e245df04ebba6c52c5073d49d3b8ebe62ac385bf7a828dcccd3098bfd77*1*0*8*24*2a74*882*a51281ac874a60baedc375ca645888d29780e20d4076edd1e715499bd982152a736311f*2*0*e3*5c*eda |
| 17225 | PKZIP (Mixed Multi-File) | \$pkzip\$2*3*1*0*0*24*3e2c*3ef8*0619e9d1f7f3f994065b99b1fa8ef41c056edf9fa4540919c109742dc32f797f9c0e0*1*0*8*24*431a*3f26*18e2461c0bdb89bd9c763067a020c89b5e16195b1ca5fa7fb13bd246d000b6833a2988*2*0*23*17*1e3c1a16 |
| 17230 | PKZIP (Mixed Multi-File Checksum-Only) | \$pkzip\$2*\$8*1*1*0*8*24*a425*8827*3bd479d541019c2f32395046b8fbca7e1dca218b9b541975be49942c3536298e9cc939e*1*0*8*24*2a74*882*a537af57c30fd9f4b3eef9a9ce55b6bf3bbfada237a7c1dace8ebf3bb0de107426211da3*1*0*8*24*2a74*882 |
| 17300 | SHA3-224 | 412ef78534ba6ab0e9b1607d3e9767a25c1ea9d5e83176b4c2817a6c |
| 17400 | SHA3-256 | d60fc6f585d4a4e17224f5885970f0ed5ab042c3916b76b0b828e62af636cbd |
| 17500 | SHA3-384 | 983ba28532c6320d04f20a485bcd38bddb666eca5f1e5a5a79ff1c6244fe5f83cf4bf05b95f378dd2353617221 |
| 17600 | SHA3-512 | 7c2dc1d743735d4e69f3bda695b1b7e9172033dd8cd599ca94e8570f3930c3f2c0b7afc8d152ce4eaad6057a2f22e71934b3a3dd0fb55a7fc84a53144e |
| 17700 | Keccak-224 | e1dfad9bafae6ef15fb5bb16fc426f09f5f1e7870581962fc84636 |
| 17800 | Keccak-256 | 203f8877f18b4ee1226627b547808f38d90d3106262b5de9a943b57137b6 |
| 17900 | Keccak-384 | 5804b7ada5806ba79540100e97a4f93654ff2a1d94d4f2ce4bf69abd594bf03701fe9525a15dfdc625bfb7d69701 |
| 18000 | Keccak-512 | 2fbf5c9080f0a704de2e915ba8fda6ab00bc026b2c1c8fa07da1239381c6b7f4dfd399bf9652500da723694a4c719587dd0219c30eabe61210a8ae4dc0b03 |
| 18100 | TOTP (HMAC-SHA1) | 597056:3600 |
| 18200 | Kerberos 5, etype 23, AS-REP | \$krb5asrep\$23\$user@domain.com:3e156ada591263b8aab0965f5aebd837\$007497cb51b6c8116d6407a782ea0e1c5402b17db7a6b05a6d30ed164a9933c754d720e279c6c573679bd27128fe77e5fea1f72334c1193c8ff0b370fadcd6368bf2d49bbfdb4c5dcab9 |
| 18300 | Apple File System (APFS) | \$fvd\$2\$16\$58778104701476542047675521040224\$2000039602e86b7cea4a34f4ff69ff6ed706d68954ee474de1d2a9f6a6f2d24d172001e484c1d4eaa237d |
| 18400 | Open Document Format (ODF) 1.2 (SHA-256, AES) | \$odf\$*1*1*10000*32*751854d8b90731ce0579f9bea6f0d4ac2f2bf546b31f1b6a9f5a6f6952a0bf4*16*2185a966155baa9e2fb597298febc8c*1*c18aae34bcbbe9119be017fe5f8b52d*0*051e0f1ce0e866f2b771029e03a6c7119aad132af54c4e45824f16f61 |
| 18500 | sha1(md5(\$pass)) | 888a2fc3854fb0a3211055dd0434ad1aa2880 |
| 18600 | Open Document Format (ODF) 1.1 (SHA-1, Blowfish) | \$odf\$*0*1024*16*bff753835f4ea15644bf8a2f8e4b5be3d147b9576*8*ee371da34333b69d*16*a902eff54a4d782a26a899a31f97bef4*0*dae7e41fc3a500d3ce152edd8876c4f38fb17d673ee2ac44ef1e0e283622cd2ae298a82d8d98f2ea737247881fc353e73 |
| 18700 | Java Object hashCode() | 29937c08 |
| 18800 | Blockchain, My Wallet, Second Password (SHA256) | YnM6WYTERjJfhxwepT7zV6odWoEUz1X4esYQb4bQ3KZ7bbZAYOtc1MDM3OTc1NjMyODA0EcAACD3vFoc= |
| 18900 | Android Backup | \$ab\$5*0*10000*8b900e4885ff9cad8f01ee1957a43bd33fea12491440514ae27aa83f2f5c006ce7e7fa0bce040add619919b4eb60608304b7d571a2ed87fd58c9ad6bc5fc4*7d254d93e16be9312fb1ccbfc6265c40cb0c5eab7b605a95a116e2383fb1cf12b68223f |
| 19000 | QNX /etc/shadow (MD5) | @m@756f129f9ce77b6b1b7f87f1e764a@8741857573233050 |
| 19100 | QNX /etc/shadow (SHA256) | @s@0b365cab7e17ee1e7a09078501cc1aa858886d3a42f5b045c614b882a93@5498317092471604 |
| 19200 | QNX /etc/shadow (SHA512) | @S@715f9e94c097805d1e13c6a40f331d02ce589765a2100ec7435e76b978d5efc364ce10870780622cee003c9951bd92ec1020c924b124cff7e0fa1f7e33672@2257314490293159 |
| 19210 | QNX 7 /etc/shadow (SHA512) | @S@vm2nBHGesQkXra0f74XmouSirzjYD3r/0py+txv0Kr8A4hCPMGFHozQr41F1YcJPPoEheqfSeMyLyw/15Pw=@=NDY2MDEwNj3YbjYz2Mzl1Mzc3Mz0ZTNiMTAzNzE= |
| 19300 | sha1(\$salt1.\$pass.\$salt2) | 63d02e918ab98e5fad9c61c0e4697654c4c16d73:18463812876898603420835420139870031762867:44495164251936059797604292768459066854958453427811268564418284876389090269975686928314201401831183702544109262486416851450 |
| 19500 | Ruby on Rails Restful-Authentication | d7d5ea3e09391da412b653ae6c8d7431ec273ea2:23876988672:8962783556527653675 |
| 19600 | Kerberos 5, etype 17, TGS-REP (AES128-CTS-HMAC-SHA1-96) | \$krb5tg\$17\$user\$realm\$ae8434177ef09be5bc2eff8\$90b4ce5b266821adc26c475cf9348fce65096190be04f8430c4e0d554c86dd7ad29c275f9e8f15d2dab4565a3d6e21e449dc2f88e52ea0402c7170ba74f4af037c5d7f8db6d53018a564ab590fc23aa: |
| 19700 | Kerberos 5, etype 18, TGS-REP (AES256-CTS-HMAC-SHA1-96) | \$krb5tg\$18\$user\$realm\$8efd91bb01cc69dd07e46009\$7352410d6aafdf2c64972a66058b02aa1c28ac580ba41137d5a170467f06f17faf5dfb3f95ecf4fad74821fdc7e63a3195573f45f962f86942cb24255e544ad8d05178d560f683a3f59ce94e82c8e724a3af0160b |
| 19800 | Kerberos 5, etype 17, Pre-Auth | \$krb5pa\$17\$hashcat\$HASHCATDOMAIN.COM\$17776ab5383236c58582f515843e029ecbf43706d177651b7b6ccb2713b17597d3db5b1c9c470c281589fd1d51cca125414d19e40e333 |
| 19900 | Kerberos 5, etype 18, Pre-Auth | \$krb5pa\$18\$hashcat\$HASHCATDOMAIN.COM\$96c289009b05181bf32062967240b1b1ce5f74eb12e0266cd74e81094661addab08c0c1a17882c91a0ed89ae4e068d2820b9cce69770 |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (AES) | https://hashcat.net/misc/example_hashes/dc/hashcat_aes_dc.html |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (Twofish) | https://hashcat.net/misc/example_hashes/dc/hashcat_twofish_dc.html |
| 20011 | DiskCryptor SHA512 + XTS 512 bit (Serpent) | https://hashcat.net/misc/example_hashes/dc/hashcat_serpent_dc.html |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (AES-Twofish) | https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish_dc.html |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (Twofish-Serpent) | https://hashcat.net/misc/example_hashes/dc/hashcat_twofish_serpent_dc.html |
| 20012 | DiskCryptor SHA512 + XTS 1024 bit (Serpent-AES) | https://hashcat.net/misc/example_hashes/dc/hashcat_serpent_aes_dc.html |
| 20013 | DiskCryptor SHA512 + XTS 1536 bit (AES-Twofish-Serpent) | https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish_serpent_dc.html |
| 20200 | Python passlib pbkdf2-sha512 | \$pbkdf2-sha512\$25000\$lyWE0HrP2RsJzCxlDGFMKQ\$1vC50hk2mCS9b6akqsEfgeb4i74SF8Xjh.SljXf3dMLHd1Y1GK9ojcCKts6/asR4aPqBmk74nCDddU3tvSCJvw |
| 20300 | Python passlib pbkdf2-sha256 | \$pbkdf2-sha256\$29000\$x9h7j/Ge8x6DMEao1VqrdrQ\$kra3R1wEnY8mPdDWOpTqOTINaAmZvRmcYd8u5OBQP9A |

| Hash-Mode | Hash-Name | Example |
|-----------|--|--|
| 28800 | Kerberos 5, etype 17, DB | \$krb5db\$17\$test\$TEST.LOCAL\$1c41586d6c060071e08186ee214e725e |
| 28900 | Kerberos 5, etype 18, DB | \$krb5db\$18\$test\$TEST.LOCAL\$266b5a53a6d663c3f69174f3309acadab8e4679c7973699fb82686a6cf1a6c7 |
| 29000 | sha1(\$salt,sha1(utf16le(\$username).':'.utf16le(\$pass))) | 339b5ea53f28516008e9ca710857d3a4785b6fc:8ca064ff42fcab5a8f0692544b8dd3d3054bd73fe9afa08c6b6b310538cc9a7:757365726e616d65 |
| 29100 | Flask Session Cookie (\$salt.\$salt.\$pass) | eyJ1c2VybmtZSI6ImFkbWluIn0.YjdgrQ.IOTIf1PD0H9wXsu_qS0aywAJVD8 |
| 29200 | Radmin3 | \$radmin3\$75007300650072006e0061006d006500*c3b6f95096d9564844c4849e7df6d41f1fc5f3a7d8fe27c5f20545a238398fa*0062fb848c21d606baa0a91d7177daceb69ad2f6d090c2f1b3a654cfb417be66f739ae952f5c7c5170743459daf854a22684787b24f8 |
| 29311 | TrueCrypt RIPEMD160 + XTS 512 bit | \$truecrypt\$t87914967f14737a67fb460f27b8ae81de2b41f2b740b3d78784e02763951da47c7ca235e75c22ec8d959d6b677feedefad61e6a0d038079d3721a8e7215eb7b3bed6453a114e6db89a52be9a9c1698a9c698f1e37f80d7af0efab82b6e5f5 |
| 29312 | TrueCrypt RIPEMD160 + XTS 1024 bit | \$truecrypt\$t6e1644acd7373ef6b8caeaa0c4002d3f091f9e565d1f281fc5e1600d1cf3b4ee7a27326a9a28d336e65adfd254661e1a609dd9941279f\$6d4a9c513dfb0192734fc1e1014ccdd0399e89a0860c4077463c18609f5218254ed998adeb1 |
| 29313 | TrueCrypt RIPEMD160 + XTS 1536 bit | \$truecrypt\$t3916e924d246e5ce1b7140211ff5b761703e924f573e475261d465b0ee3e56ee8020e6ba9398d4c151080f28b2a112e900587784e07dddcf310d01ba81719o620533790456d20d17c8fd484f9d93bbfe41509b931a41782d68ed90b0bc9641b795a8 |
| 29321 | TrueCrypt SHA512 + XTS 512 bit | \$truecrypt\$5ebff64050aaa3374f9946166a9c4134dd3ec0df1716da2fb103909d2b8e3b9c95ccb6d61a7ad05411a1443ad254e059e924d78bab6d0463e71cf7c3109b7\$ef4e837bf6d7a548dd8333c451b59d1132098f44c6ff19c6cb921b1de3b0aa675e0478a05 |
| 29322 | TrueCrypt SHA512 + XTS 1024 bit | \$truecrypt\$9f207bepc0edded181b12e324d4f05d2f33f0bd1bae43db65d32342f48ab960fa4d1c140d4c553e06ad47e7e394d16ea6544d35fb0b2415bd0606c5f537e42a58b168e1991e2ec0b5773f6e8e5f7c335b19dd068d1f20260085ecd8e8ba366f152199 |
| 29323 | TrueCrypt SHA512 + XTS 1536 bit | \$truecrypt\$t721a7f40d2b88de8e11f1a203b04ffa971a5f671623c6783f984c755e04665f95a7f3f52f402898aaeed68d048cc44fabf81c26832b589687dad082f3e4e0f23c7cab28118f21a4ccb8f32b25914ff4022e74c8cd4511801c7c6bde4033badbdc8f296 |
| 29331 | TrueCrypt Whirlpool + XTS 512 bit | \$truecrypt\$c5f5d34153414b63285e701e52c2d99e148c6cc450813282fc41862d0a09ac1ea61724285ac261c3391508eec9fa54c33e382458662913678f2a88a84959a678e238973985ec670d50252677430587ee28b72bf5edfb2f79c40b734ba8a54a3662642a |
| 29332 | TrueCrypt Whirlpool + XTS 1024 bit | \$truecrypt\$e9e503972b72d2e996b0bfcdf20f03a54b42399e3586520cf1f69475ba32aff564e40e604a505a95ce15220f558a815e94c4953882a8299ne3fffb12e9bd652b8f2e41c0a8337ce20d45715440c83e394200d351c5b04b8e5b70fa11bba8467320a091a1d |
| 29333 | TrueCrypt Whirlpool + XTS 1536 bit | \$truecrypt\$de7d6725cc4910a7e96307df69d41335e64d17b4425ca5bf1730f27820f92df9f20f8e855d6eb5255927153f98734789666c8563e366a0968a126b11sc25ac817b2706d5ce5c3946e64332b21b19b289851c637559ad5b4fecac74ff0d625ef |
| 29341 | TrueCrypt RIPEMD160 + XTS 512 bit + boot-mode | \$truecrypt\$2b5da99241197f2507f12ba3c3e4974460416e846f221494999082fc2a04753b581f266211cd14c9479d8ebc195b3c1e17629d7e19ff66175e5fear90a4f6d7019495d758266f3f54e61b82dc00efc2b443819c3f6d7a92852a7625d8e6286ab409 |
| 29342 | TrueCrypt RIPEMD160 + XTS 1024 bit + boot-mode | \$truecrypt\$debcc3e74a7b2acb47eaa48c6fd413d19579f476fb037b3d6e50999daca9e4661913c3b6e64d707b6206a2ab6b31abc017b356d3a719d0e2f4a058f0349763970855d4c3b2a0967b2996f1b6f3e4fdbe3c7c6d7203e8b7bf8e7bf8d6f8e376 |
| 29343 | TrueCrypt RIPEMD160 + XTS 1536 bit + boot-mode | \$truecrypt\$5e6628907291b0b744f4f3a23fb0693ac71c4379c3a3cc0efab4b0036bdafde179e0484a4ca05b66cef7c7e8ab61d6836be5909838b8f9027da93b77d\$076ba9557c958159c5dcdfb70823b7e324bd99b40a8f394106faefd279df3493b58b9fc41b |
| 29411 | VeraCrypt RIPEMD160 + XTS 512 bit | \$veracrypt\$p531aca1fa6db5118506320114cb11a9f00dade61720533fc12982b28e71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6bfcfb6001c\$df0258f16a0aa1baf3b951be0ffad541fbbef9bdcf381115eeceef778e29a8761f853b7c99e |
| 29412 | VeraCrypt RIPEMD160 + XTS 1024 bit | \$veracrypt\$p531aca1fa6db5118506320114cb11a9f00dade61720533fc12982b28e71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6bfcfb6001c\$df0258f16a0aa1baf3b951be0ffad541fbbef9bdcf381115eeceef778e29a8761f853b7c99e |
| 29413 | VeraCrypt RIPEMD160 + XTS 1536 bit | \$veracrypt\$p531aca1fa6db5118506320114cb11a9f00dade61720533fc12982b28e71a1a3856ac6ee44b4acc207c8230352208d5f0dc37bf755bd98830279d6bfcfb6001c\$df0258f16a0aa1baf3b951be0ffad541fbbef9bdcf381115eeceef778e29a8761f853b7c99e |
| 29421 | VeraCrypt SHA512 + XTS 512 bit | \$veracrypt\$2b2e5b279d8d2694e0ad1e5049902e717f1bdf741bbd768fb307d510741b649d78c54dca46fb2c92723af9d40769b295e6445ec232af78e29a8761f853b7c99e |
| 29422 | VeraCrypt SHA512 + XTS 1024 bit | \$veracrypt\$37e6b10454d741c7e5e8ca0b7a07e67c0323574eb6d43150174f978902210f0ca3e9796f2898028d446a337c17d40f3b12e31929598c703c904957a017f878f0b17237ac1a8bbfd648713a9540191f9 |
| 29423 | VeraCrypt SHA512 + XTS 1536 bit | \$veracrypt\$p44f26d1742260f88023d825729c5a64c8f475d88t632a2b48af427af138cfd4c4bcb122f6ba8339a8e4247d1f72c024eef041291492ea07d8677d84da03227e2a26d943307604d4458b14f52766fc04baeb473a78918066d062d42be5ba7c042379a |
| 29431 | VeraCrypt Whirlpool + XTS 512 bit | \$veracrypt\$p48f9476aa0aa8327a8a9056e61450f4e2883c9e9669142f2e0f202c2f85303b897d088dea03d64329f6c402a56fed05b3917915929090a25c8ae84c67db364e6fb3d516e52d5e2ab72f72b0809096f7475ecb736bb3225b6d1a |
| 29432 | VeraCrypt Whirlpool + XTS 1024 bit | \$veracrypt\$p1b721942019ebe8ceddb7ed744a0702c0e053281a467e0ed69b8f75c7406407d72e8b2f2ae1270e41898c0a2c14382f86e04c15e7b7c019d1d9d813eab00a\$e5173e3cb1d927859d3e6de1006335a5184e12b4c8dc2db2b1cd785063152a776f4dc5c |
| 29433 | VeraCrypt Whirlpool + XTS 1536 bit | \$veracrypt\$p5eb128daef63eff7e6db6a10a8858f89964f47844acc868d82eb2b7e37866fa75e3b7a53f9d2ff1ecdd1f4dc90e9c0f5f160d11b1992cd2971b4889edfc89\$20bbf346fd7693f675b617c9e49a43e6f445021068fc13453b130f2eb1d753ee83cc61dabec2 |
| 29441 | VeraCrypt RIPEMD160 + XTS 512 bit + boot-mode | \$veracrypt\$p528c2997054cc1d22cbc5233463d8f119a0318b94a715e6686c898f36699b0443221a18f57893e0db1e40875cc711ea542e701b1255d6aa26134e18d3f45e6aaea7390a5e25f0130e8b59e515126d08ff54fb0pcdec219246c249326711e1f2a |
| 29442 | VeraCrypt RIPEMD160 + XTS 1024 bit + boot-mode | \$veracrypt\$p3a3c0fa44597b3a7e6d45074b73e0a860623664503b9723e1f51fa25e91921d813e845d3e1ab008a62482b78c6e70380d32083d3d66831505b0c2b0214fbfa\$c8a51c9fb9e2ada2346054fa7d810f2e75b7792150d63b111aa9a78d7e025d832b3d6901 |
| 29443 | VeraCrypt RIPEMD160 + XTS 1536 bit + boot-mode | \$veracrypt\$p1a8c0135fa94567a866740cb27c5b963c95be3ac0b7b5c483e08a38d6d06ae5db926c4592645f13cf415e6fb4d8ea6a76b57a314395f58c5ab4646e36f3a33dcfed72c1f4051a13da6201608d6c8b0343a4f039429813f7209772097ea54093b7182593aaf996fa3828887d9 |
| 29451 | VeraCrypt SHA256 + XTS 512 bit | \$veracrypt\$p5b8a195444145e40172959a57e9f6616f04799b40407edfb9d405349e93fb0318778fb07a21739b3a9fb02b4752eac4d202165a29413c389964fa4d646643ba234f5c40e78c4bdc013a62017f878f0b17237ac1a8bbfd648713a9540191f9 |
| 29452 | VeraCrypt SHA256 + XTS 1024 bit | \$veracrypt\$p1c3197f32d5b72b4d60474a7a43afeb0d2e856a84fc957c3fb1188b62c0ca002f585c125bb33c5a5e85a665fafe9fce15cb127c2fd9b53a58\$58364fd645968187d546443ba234f5c40e78c4bdc1d0a1208dd892442bc1dfe2a45bc4 |
| 29453 | VeraCrypt SHA256 + XTS 1536 bit | \$veracrypt\$p4f21bdc1087b319c12d84a680ceab0102e841c9ccfe767db0215dcfc7b543f3e1bbbed099e88646823da5bad84687b7293961a8e0449a6b92b8d7b9b1a1f21e5997ec3b2e5b3b4d4741d50998d7ff88340f4b66270f72b5e666e7d5ca7847 |
| 29461 | VeraCrypt SHA256 + XTS 512 bit + boot-mode | \$veracrypt\$p5c8a50f07efc320eecd79ac2c5b911b0f7e6e888f59890dd3fa39b4808e8b3113219e2fb151f4a20feba286a3f3e997c80361132262bc0daccb6e9f7088bc956f889a098949d4dc847170422ec33849ee5ccf81.3fa8fe8ba4d2e6a993c99032337032b83473 |
| 29462 | VeraCrypt SHA256 + XTS 1024 bit + boot-mode | \$veracrypt\$p5b6b8eef1arf55eb2b2849e1fc90c08f05010e0fa64345811611216b3e145201374bb7e26d64e947e4ecab11aa57610063fe3cd8a9873e0194b12121d2f6b82a7178a55b68ee773e0653246d68810ede1b18783d7bca |
| 29463 | VeraCrypt SHA256 + XTS 1536 bit + boot-mode | \$veracrypt\$p95b2255219537a2289327f783ca459b989963f3c7856f6d82ac8e2b82e1092ca2e5d46dc4266c7720f297ea54093b7182593aaf996fa3828887d9 |
| 29471 | VeraCrypt Streebog-512 + XTS 512 bit | \$veracrypt\$p444ec1554fa02989b349b84d575a0e7b5ed8b11cdread29120f03b0d16813f17a18a4f4389d7798e43c073fa17d1a02502db8d4466488802ead0f9d56e6ecc8eaf464ab94a64cb7d1a86f82633115b6380b1da8f9c136150ef6ff |
| 29472 | VeraCrypt Streebog-512 + XTS 1024 bit | \$veracrypt\$p05da0b17c60e0ddc39205875ec29389b140b54cd1f94de43dccea703bfld37936e75a500b7f9d4e947f214c469c051b6e99779a2856eb9f05a598fb9a5621e49c7505eba3b4738acdc860b6ed468752e5b673ae06bb04616de438a0901b9abe11 |
| 29473 | VeraCrypt Streebog-512 + XTS 1536 bit | \$veracrypt\$p18d2e8134961850f8fc26d2b6cf89696d9c4eee301b5fa7295615166552b2422042c6cf6212187ec9c02340908e793409233ced04858a74deecbc59b50a303\$afdc7d583cde1b0c06f0bf5612e1f6d8d8f194a4dcbe395780b3d1d7127faf39910eb10f4 |
| 29481 | VeraCrypt Streebog-512 + XTS 512 bit + boot-mode | \$veracrypt\$p2bfe47a2e13388a9e0747bbe0711a48d6f2123df85b09e0350771ed4a0e4f397038a49b900275c9158145a96b52f95e92f972b3f963c7eadb71a07518d4132331041c57d27940a0505f794153b52b24441271185d386833fbabf0e880c51b544f583d0d |
| 29482 | VeraCrypt Streebog-512 + XTS 1024 bit + boot-mode | \$veracrypt\$paf7a64c7c81f60852755232c7049b0d369e2c70202d741fb94300cbc97c2e13012474f9acce41512f3d1b2489ca965e8eb0653b5fae5b8479a4e43c4a5269f4ee7f6d20f2f2e61b2570d46df07b4a6926f3b44524f0a47be2a0d677d225e25c |
| 29483 | VeraCrypt Streebog-512 + XTS 1536 bit + boot-mode | \$veracrypt\$p09cd7444e96e4a8338e3875163787b2f6349224db4bf8788e25156c87051426674725b3e32fa22e8abdb3e1405a333e891ce05ca5b79a6b56048c801d95412bfa3b1c38c00297a33ea0e014156ce08d9526150c805e5e2776a1faeb27 |
| 29511 | LUKS v1 SHA-1 + AES | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_1_aes_cbc-essiv_128.txt |
| 29512 | LUKS v1 SHA-1 + Serpent | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_1_serpent_cbc-plain64_256.txt |
| 29513 | LUKS v1 SHA-1 + Twofish | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_1_twofish_xts-plain64_256.txt |
| 29521 | LUKS v1 SHA-256 + AES | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_256_aes_cbc-plain64_128.txt |
| 29522 | LUKS v1 SHA-256 + Serpent | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_256_serpent_xts-plain64_512.txt |
| 29523 | LUKS v1 SHA-256 + Twofish | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_256_twofish_cbc-essiv_256.txt |
| 29531 | LUKS v1 SHA-512 + AES | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_512_aes_cbc-plain64_256.txt |
| 29532 | LUKS v1 SHA-512 + Serpent | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_512_serpent_cbc-essiv_128.txt |
| 29533 | LUKS v1 SHA-512 + Twofish | https://hashcat.net/misc/example_hashes/hashcat_luks_sha_512_twofish_cbc-plain64_256.txt |
| 29541 | LUKS v1 RIPEMD-160 + AES | https://hashcat.net/misc/example_hashes/hashcat_luks_ripenmd160_aes_cbc-essiv_256.txt |
| 29542 | LUKS v1 RIPEMD-160 + Serpent | https://hashcat.net/misc/example_hashes/hashcat_luks_ripenmd160_serpent_xts-plain64_256.txt |
| 29543 | LUKS v1 RIPEMD-160 + Twofish | https://hashcat.net/misc/example_hashes/hashcat_luks_ripenmd160_twofish_cbc-plain64_128.txt |
| 29600 | Terra Station Wallet (AES256-CBC(PBKDF2(\$pass))) | 67445496c838e96c1424a8da4b146f0fc247c834ef33f7ebe1b4412018512wZGtBMeN84XZE2LoOKwTGVaE4m7PRLDGlDjWU60SUZKRikFx9tlnZL8r8OfOzbwUs2Auo+nrrP6f85f4eHstwPjw0KwzHWB8br58= |
| 29700 | KeePass 1 (AES/Twofish) and KeePass 2 (AES) - keyfile only mode 32 | \$keepass*2*60000*0*02078d460c3837003f22eeba42b3ac29ad9e13fb61349b3f91a0d0b004*c901781373cb86064fb4c7b427b6a984409e9dd618016a198e4a95cb10098*c602f182f8b03671c944a5af357eede7*135443633e6d2b6dba314de0a1e2 |
| 29800 | Bisq .wallet (script) | \$bisq*\$32768*8*6*31d838af87f979cb*5cfb7f32289d8e685881156e17b1866589ffab6b757011e25d1319083595236d2 |
| 29910 | ENCsecurity Datavault (PBKDF2/no keychain) | \$encdv-pbdkf2\$1\$121f898edc51ff2\$14e6bf4e9256f9e4\$32197248953882254644795101599063579078126618881365297380052274\$10000 |

| Hash-Mode | Hash-Name | Example |
|-----------|---|--|
| 29920 | ENCsecurity Datavault (PBKDF2/keychain) * | \$encdv\$pbkdf2\$3\$1\$c232aba45699c80b\$473d5dd2e0833ac7\$32\$4454716926322493581114042616371582782202532493983541577898367049\$10000\$9a030124cecc2fef5ca44f83ef6e4c7944f8d7c5234b9000c982e209a92bb5535f4c15be6e9914729eb8 |
| 29930 | ENCsecurity Datavault (MD5/no keychain) * | \$encdv\$1\$1\$3a427b9ee5851118\$4f52176bb9a1b3b6 |
| 29940 | ENCsecurity Datavault (MD5/keychain) * | \$encdv\$3\$1\$91b9bab3820c527\$1ff4cb6657adad34\$0d9067c4d059879dfee2edeb3999871973d422ff5fa868c51b025d07f644187889dc5509ec75d4a120184d619d10d02b138d64ba82f9d0936162c9e64d97771de3e74d6e52e5ab9b900c25fb446e14cbe3ef1fa3- |
| 30000 | Python Werkzeug MD5 (HMAC-MD5 (key = \$salt)) * | md5\$b44143\$7f51e1edecfa6bf401a0b5e63d33fc8c0e |
| 30120 | Python Werkzeug SHA256 (HMAC-SHA256 (key = \$salt)) * | sha256\$70108387805\$8b9472281c36c3a693703de0 |
| 30420 | DANE RFC7929/RFC8162 SHA2-256 * | 127e6fbe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df |
| 30500 | md5(md5(\$salt).md5(md5(\$pass))) * | e13bb4b8e5a98db7277df344aa3363cf:28945624531 |
| 30600 | bcrypt(sha256(\$pass)) / bcryptsha256 * | \$2b\$10\$FxdtPtnal303LcWtd6LF02U6Gc63Vj07qyChcfqbQ0\$1Gho/qSzU |
| 30601 | bcrypt(HMAC-SHA256(\$pass)) | \$bcrypt-sha256\$v=2,t=2,b,r=12\$KSOjON/ciJR86a00N5q61.\$AmWZucQuHk13FGkQWhgMeiFvBfm2GCy |
| 30700 | Anope IRC Services (enc_sha256) * | sha256:ab67666e1f91cd38c0ab5bee9c8d2132eca7460354477109a739d4e735b14131:47bcfd0d573653943231f07445da774e5d06465c897ce40578b120bde187e26 |
| 30901 | Bitcoin raw private key (P2PKH), compressed 33 * | 14Fqy5AGRehazz4NLzxFWy2E4BiNFdH9Ut |
| 30902 | Bitcoin raw private key (P2PKH), uncompressed 34 * | 12sLRz1TPZurKCwVqeT5FkW3Y7usipPbZ |
| 30903 | Bitcoin raw private key (P2WPKH, Bech32), compressed 35 * | bc1q926ca6n7wz7gm2gfd8xc5p0vu687ngvnknpx74 |
| 30904 | Bitcoin raw private key (P2WPKH, Bech32), uncompressed 36 * | bc1qq6samcuksd2f6rsc48eu3lkq87zp33vfud0p0t |
| 30905 | Bitcoin raw private key (P2SH(P2WPKH)), compressed 37 * | 3jqAMRQN3Gd6i8yV3Kw7v55RmfFxW7IW2Aq |
| 30906 | Bitcoin raw private key (P2SH(P2WPKH)), uncompressed 38 * | 3PmD8zdrFD8KVgLrguVDCP2RBj4Rh35G9Z |
| 31000 | BLAKE2s-256 * | \$BLAKE2s\$2c719b484789ad5f6c1739012182169b25484af156adc91d4f4f72400e574a |
| 31100 | SM3 * | 51227e48ea74827b77fc142c3ec21d25cc42c794e6ac42825cd47ad4ac7913d |
| 31200 | Veeam VBK * | \$vbks*\$54731702769149752741495960625996207399688284541933702394775960978730695504382155223405444342855920150089170058956647576461877712*10000*78cf7df8f1ed8bb50bda1129ec8e6810 |
| 31300 | MS SNTP * | \$snntp-ms\$cfc7023381cf6b474cdceb0a67db3\$907733697536811342962140955567108526489624716566696971338784438986103976327367763739445744705380 |
| 31400 | SecureCRT MasterPassphrase v2 | S:"Config Passphrase"=02:ded7137400e0a100412f1708453968cc270908ba02ab0345c83690d1de3d9937587be66ad2a7fe8cc6cb16ecff02e61ac05e09d4f49f284efd24f6b16d6ae3 |
| 31700 | md5(md5(\$pass).\$salt1).\$salt2) | c7a971e405313d0ecc22e37e8b2424a1:2316355934:478467 |

\$metamaskMobile\$JV4j2dUDI7n+sujuqW3Wvg===\$398f9b04c822d36bfcbdd1e68c82d1e8\$auj3j2TwOZ4ev3UIGmNa7VXLh0Nmzr3rDbpXRrrOnr4= |

| | | |
|-------|---|---|
| 32000 | NetIQ SSPR (MD5) | \$sspr\$0\$10000\$NONE\$2c8586ef492e3c3dd3795395507dc14f |
| 32010 | NetIQ SSPR (SHA1) | \$sspr\$1\$10000\$NONE\$b3485214dfa55b038a606a183a560dab7db4ecf1 |
| 32020 | NetIQ SSPR (SHA-1 with Salt) | \$sspr\$2\$10000\$CxCpQqosk9PKCbc0Rp6DLjJRHVEJKK8\$33283d71c2ecaf4f30170u89feca2fc879221c |
| 32030 | NetIQ SSPR (SHA-256 with Salt) | \$sspr\$3\$10000\$ODk2NDA5Mj2NDIwMjwMjQyMTQ1NzMs7195873d47c7e3627510862e37fe7cab9bc83b91feecb9864841bf80cff92419 |
| 32031 | Adobe AEM (SSPR, SHA-256 with Salt) | \$sspr\$3\$10000\$9fbff1381f481427\$1b45fd7eb190cc70bf831698c777207eabb4b7ea2abd6fff84be539aae62 |
| 32040 | NetIQ SSPR (SHA-512 with Salt) | \$sspr\$4\$10000\$NzYwNjMyNdcMTQ2OTE4NTUzD0AyODE3\$0ce2e88fe4280e6e003d77cb45d45300dff3960c5c073f68303565fe62fe4ff3ada8cee7d3b87d0457335ab0df73c5c64ee1f71ccf6b8bd43a316ccb42ecd4 |
| 32041 | Adobe AEM (SSPR, SHA-512 with Salt) | \$sspr\$4\$1000\$9ad596c50a5c9acd\$4dc3c7d227e3cc57a9c9014b1eff1684808ef04191482cd8ae6e9d7b66211a5f04e4b34f494b0513a5f67b9614c5ff16e95e624a60f41b16b90533f305146e |
| 32050 | NetIQ SSPR (PBKDF2WithHmacSHA1) | \$pbkdf2-hmac-sha1\$10000\$71341805032538410649094421624941143165011151428170747164626720\$990e0c5f62b1384d48cbe3660329b741c4a8473 |
| 32060 | NetIQ SSPR (PBKDF2WithHmacSHA256) | \$pbkdf2-hmac-sha256\$10000\$MDUzMTE4NjQyNdC5NTQxMjAwMjg1OTYxNjAxNDgzNzc\$bwYpAyQ2g5PqdnMj8m46mkwQbyztw8gEQqnhDHj48c |
| 32070 | NetIQ SSPR (PBKDF2WithHmacSHA512) | \$pbkdf2-hmac-sha512\$100000.0211258841559010917494695474251518568983810218571790549787198.1659e4064daf84d635a51f5ed2f5708f6735233bed471994bcd0307b3c5f77597f79bdccdd088d1e79357b383809ddf84379006b49e14f4ff45c449071478777 |
| 32300 | Empire CMS (Admin password) | 5962d4ada95d6493379cd9c05ce7a376:726620866134417802643053384570:6056291339665060317728572165496183 |
| 32410 | sha512(\$pass).\$salt) | 25d509824028a999f4ee851b5de404bb316b78ae8e974874376484018f58520e082747a7ce9f769bcacc5f6387356c780f602e23393f12b650a6931e4b9338:21881837027919828109608 |
| 32420 | sha512(\$pass).\$salt) | c1bade2bd4eb8cd8b41ac6ab3e0a5035a29619e5b1a6135782b77da5d7faccece096f3db9ee23b9866378fc2fb19f2c013fed1b7e1fff1d18340a4f39238412:789 |
| 32600 | CubeCart (curl -H "Content-Type: application/x-www-form-urlencoded" -d "username=\$username&password=\$password") | a2c0342a2617026baeed01130c826cc3f58242799894b3ecc1abfa811e0de3fd712ef14a886af6f74045502f22c9fe1c45a291cf2d7bbe9b94c388b6403:deadbeef |
| 32700 | Kremlin Encrypt 3.0 w/NewDES | \$kgb\$0ab30cf7a52dad93\$82a7c454246fc7570224e9f24279791aa2a63bf4 |
| 32800 | md5(\$hash1(md5(\$pass))) | 7bf60b54472980e922280e225150dfa |
| 32900 | PBKDF1-SHA1 | PBKDF1:sha1:1000:cGVuZ3/pbmtZXBlcg==:J4BrIhXDUHNQ9iPPrWKn4V7Of9Y= |
| 33100 | md5(\$salt.md5(\$pass).\$salt) | 866244ca1d318292a6f40b60e03fd29c:72219426709 |
| 33300 | HMAC-BLAKE25 (key = \$pass) | 0d541ae24d30aff2627c4d1a910f766088a64809edba605d29649a9b944da6c:1234 |
| 33400 | mega.nz password-protected link (PBKDF2-HMAC-SHA512) | P!AgDU2XVjJi1vxkJgMPf5rkQYUn1H_6WI_sKtic69mqBKP_O_PDG0Om7BSapL1QoAgUrz9vzaZmrYnU8t-Au6hteg |
| 33600 | RIPEMD-320 | 8339009b816d4e4c2a6be3c6e1daac6aca69a7670ecdc583adfca0db17cc8f08ce35d6c759b038ab |
| 33650 | HMAC-RIPEMD320 (key = \$pass) | e740440e7bd65056a90f1aa4eb00e00308a9f1788866b4eacbd46fc8032301d4e5b3a9d179b044:95454599772294521162217 |
| 33660 | HMAC-RIPEMD320 (key = \$salt) | 345136b13b3a6e52901e2a414fea0cf5ca2fecf8b03279656d3b0f42c30d3f006c5ad186494996b:2436077107013929602 |
| 33700 | Microsoft Online Account (PBKDF2-HMAC-SHA256 + AES256) | \$MS\$ONLINEACCOUNT\$0\$10000\$91869d1d53a1df25dd3f0e57bbc226a43641bc03086dc5b6672941fcabc01 |
| 33800 | WBB4 (Woltlab Burning Board) [bcrypt(bcrypt(\$pass))] | \$2a\$08\$hashcatohohohohohohohegk6PN.SFkoXxDikacAGKFN9AF8nx.Hi |

| | | |
|-------|---|---|
| 33900 | Citrix NetScaler (PBKDF2-HMAC-SHA256) | 5567243c55099b6b10a714a350b53beea8be6ac9c247fd40fea7e96d206a9f1fd1c45735556ac2004138640de206d0e1522607ab3c3f92816156d2d7845068e |
| 34000 | Argon2 | \$argon2id\$v=19\$m=65536,t=3,p=1\$FBMjI4RJbhlykCgol1KEJA\$2ky5GAdhT1kH4kIgPN/oERE3Taiy43vNN70a3HpiKQU |
| 34200 | MurmurHash64A | ef3014941bf1102d:837163b2348dfa1 |
| 34201 | MurmurHash64A (zero seed) | 73f8142b4326d36a |
| 34211 | MurmurHash64A truncated (zero seed) | 73f8142b |
| 34400 | sha224(sha224(\$pass)) | b7d9a0e57e6e94e8b87996b81ffa64b05d237c58fff1d7a4e4fe2a77 |
| 34500 | sha224(sha1(\$pass)) | 10d302483c927df95abba98d69dc9608365241d152a8cc5fcbedc |
| 34600 | MD6 (256) | 539a8b63639c94b80e746611c476a684e7cc95235187b2f8881a188d6dfbf64c |
| 34800 | BLAKE2b-256 | \$BLAKE2\$68b163391b3e779dcd8a4e6d8fa03e962c29569b430e5ba014303358557e1 |
| 34810 | BLAKE2b-256(\$pass.\$salt) | \$BLAKE2\$b2b51353016a512b60e587bea98d799c2de243468085ca6cd67f983b2e55bf67:2353288289 |
| 34820 | BLAKE2b-256(\$salt,\$pass) | \$BLAKE2\$4cad0b026ed24ad1f3b70ec31d35b02751dbc33354e2c9d20ef3f968748501:3601 |
| 35000 | SAP CODVN H (PWDSALTEDHASH) isSHA512 | {x-isSHA512, 15000}YZH/V2T7z!QMGeWLBarm5O13qV9Y8ByXQijD28+bjLdo7YssXaUBkxMXbS3l4yVlYw97tvYj+vu/L37sg1reDEzODQ4MDY1NzQ1NjQ= |
| 35100 | sm3crypt \$sm3\$, SM3 (Unix) | \$sm3\$KTUB40dW4mRyRFd\$u12xLiY3FJtbo8sv1R93sAYClxQCh/6rmS1kD5vJYA |
| 35200 | AS/400 SSHA1 | \$as400\$sha1\$*QTEST1*7ED7D3694D0A2E40A720D41031B456C09124966E |
| 70000 | Argon2id [Bridged: reference implementation + tunings] | \$argon2id\$v=19\$m=65536,t=3,p=1\$FBMjI4RJbhlykCgol1KEJA\$2ky5GAdhT1kH4kIgPN/oERE3Taiy43vNN70a3HpiKQU |
| 70100 | script [Bridged: Script-Jane SMix] | SCRYPT:16384:8:1:OTEyNzU0ODg=:Cc8SPjRH1hFQhuIPCdF51uNGt2aOY/isuMIMUsJ8c= |
| 70200 | script [Bridged: Script-Yescrypt] | SCRYPT:16384:8:1:OTEyNzU0ODg=:Cc8SPjRH1hFQhuIPCdF51uNGt2aOY/isuMIMUsJ8c= |
| 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 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: a28fcf0caaacd9a9f58633f35e8992a01d9c10ba5e02fdf8cb5d730ce7bc

15 Password: 5b13d4bab83714ccc62c9f71864bc984efd6a55f237c7a87fc2151e1ca658a9d

16 PIM: 500

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

18 88f43854ae7b1624fc2ab7724859e795130f4843c7535729e819cf92f3953dc

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: 5Kcl859EuNBDtVG76134U6DZWnVmpE996emJnWmTLRW2hashcat

28 Password: KyhashcatpL2CQmMUDVMVuExqdLSvfQ6TBjkUuyttSvBa7GMiul

29 Password: 5HzV19ffW9QTnmZHbwETRpPHm1d4hAP8PG1etUb3T3jhhashcat

30 Password: L4hashcat7q6HMnMFcuKyvxvJvpabXYjxXLeY8846NtWUyX4YLi

31 Password: 5jjDR424kMePbt5UxnNm2t1NizhdiVPcf8gCj68PQpP2ihashcat

³² Password: 127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2cabaa935
³³ Password: 59887ec9920239bd45b6a9f82b7c4e024f80beaf887e5ee6aac5de0a899d3068
³⁴ Password: 2006a306cf861c18c47e85fc0f5a7aa473b5fb41f34344a32f8e042786fa1
³⁵ Password: d419877da341d51557af59996845740135ab2506515426ada57cc8ec05ad794
³⁶ Password: 25c9f87f34d87aacd9308705ca50b9819a57425ffbae41fec869b19764d72c2
³⁷ Password: 83b45ff8d85f37aafc05a8accd1f1cd5e50868b57e2ef0ef6f287bb4d8d17786
³⁸ Password: 4c969ccc86d9e1f557b4ff19badc9a99718dd2aecd8fcf66460612e05f5f7dd

Specific hash types

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

Legacy hash types

These hash types are only supported in [hashcat-legacy](#) or [oclHashcat](#)

| Hash-Mode | Hash-Name | Example |
|-----------|--|--|
| #23 | EP ¹ | 0x326C6D7B4E4F794B79474E36704F35723958397163735263516265456E31 |
| #90 | sha1(LinkedIn) ² | b89eacac7e61417341b710b727768294d0e6a277b |
| #43+ | base64(sha256(unicode(\$pass))) ¹ | npKD5jP0p6QtOryTcBFVvor+VmDaJMh1jn01M+Ly3II= |
| #300 | MD5(Sum) ¹ | \$md5\$rounds=904\$ipPKEBnEkp3JV8uX\$0L6m7rOFTVFn.SGqo2M9W1 |
| #610 | ----- ¹ | 7b57255a15958ef898543e6fc3313bc:1234 |

| Hash-Mode | Hash-Name | Example |
|-----------|---|--|
| 3720 | <code>md5(\$pass.\$md5(\$salt))</code> ¹ | 10ce488714fdbde9453670e0e4cbe99c:1234 |
| 3721 | <code>WebEdition SHA1</code> ¹ | fa01af9f0de5f377ae8befb03865178e:5678 |
| 4210 | <code>md5(\$username.0.\$pass)</code> ¹ | 09ea048c345ad336ebe38ae5b6c4de24:1234 |
| 4600 | <code>sha1(sha1(\$pass))</code> ¹ | dc57f246485e62d99a5110afc9264b4ccbf3cc |

¹ Supported in [hashcat-legacy](#).

² Supported in [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 |

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