MD5

Password: password1 Complexity Level: Simple

MD5 Hash: 7c6a180b36896a0a8c02787eeafb0e4c

Execution Time: 0.000007 seconds

Password: P@ssw0rd2 Complexity Level: Moderate

MD5 Hash: c9e2981b38590fc4b2b32728117732a0

Execution Time: 0.000003 seconds

Password: Str0ngP@\$\$
Complexity Level: Complex

MD5 Hash: 3f4b564683c704e302c90cebc802b8f4

Execution Time: 0.000001 seconds

Password: C0mp13xP@\$\$! Complexity Level: Advanced

MD5 Hash: 2dd139639170d05509f4b95af21676f1

Execution Time: 0.000002 seconds

Password: MyP@ssw0rd!2023 Complexity Level: Highly Advanced

MD5 Hash: 7a35bbf7f69273e4f06b22bcd89739d5

Execution Time: 0.000001 seconds

Password: abcdef123 Complexity Level: Basic

MD5 Hash: aa7c9c12fc740955ef4dfad670250ff4

Execution Time: 0.000001 seconds

Password: !@#QWEasd Complexity Level: Intermediate

MD5 Hash: b8763df2137c0141afa3761a255e4e8d

Execution Time: 0.000001 seconds

Password: 987654!@# Complexity Level: Intricate

MD5 Hash: 9f5a10cc87af5fe1a321ef98b7f2ec6c

Execution Time: 0.000001 seconds

Password: p@\$\$w0rd!2023

Complexity Level: Advanced Complex

MD5 Hash: 5bc3939b272ffd5e105bbbf577c23ebe

Execution Time: 0.000001 seconds

Password: qwerty123456!@#\$

Complexity Level: Sophisticated Complex

MD5 Hash: c7561a410cefb2d824995ae42fd3c60c

Execution Time: 0.000001 seconds

SHA1

Complexity Level: Simple

SHA-1 Hash: e38ad214943daad1d64c102faec29de4afe9da3d

Execution Time: 0.000144 seconds

Password: P@ssw0rd2 Complexity Level: Moderate

SHA-1 Hash: 9e823816a6a507e61b90e00f5be3b695f6896a7d

Execution Time: 0.000003 seconds

Password: Str0ngP@\$\$
Complexity Level: Complex

SHA-1 Hash: 364abf9dfd5f16cccd00df30129acda3795df2a9

Execution Time: 0.000000 seconds

Password: C0mp13xP@\$\$! Complexity Level: Advanced

SHA-1 Hash: 0f6cadf21c75ae951bab8a7f7cf6c569ce338ff5

Execution Time: 0.000001 seconds

Password: MyP@ssw0rd!2023 Complexity Level: Highly Advanced

SHA-1 Hash: de7c562d45bbe090bd1affd6d4d5980ae4a57bb6

Execution Time: 0.000000 seconds

Password: abcdef123 Complexity Level: Basic

SHA-1 Hash: 2dc5053699a351121bf839c446bd4a878dda5735

Execution Time: 0.000001 seconds

Password: !@#QWEasd Complexity Level: Intermediate

SHA-1 Hash: bc55d73eb46a12763d2c4dceff450d7943723e50

Execution Time: 0.000001 seconds

Password: 987654!@# Complexity Level: Intricate

SHA-1 Hash: c134b9b57a4a644ebdb87935c9d9ce4f830cb530

Execution Time: 0.000000 seconds

Password: p@\$\$w0rd!2023

Complexity Level: Advanced Complex

SHA-1 Hash: 7e4736a0b8b87c47ca62333b840a25aaab1ea942

Execution Time: 0.000000 seconds

Password: qwerty123456!@#\$

Complexity Level: Sophisticated Complex

SHA-1 Hash: 56fede5f94d627827e7eb3a264b237a7b6b1b815

Execution Time: 0.000001 seconds

Comparative Analysis of Password Hashing Algorithms: MD5, SHA-1 with Saiting, and Combined SHA-256 and Argon2id

mpj, Jra- i wili Jailiy, and Cumpingu Jra-250 and Al Yunziu								
Password	Complexity Level	Algorithm	Hash Value	Hashing Time (seconds)	Verification Time			
password1	Simple	MD5	5f4dcc3b5aa765d61d8327deb882cf99	0.000001	-			
		SHA-1 with Salting	17c3fc0a7c8b8b9ec342de5c72e5e6e6a4d08b53	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$M+uRrSg8cIX5y5yH9KgBF Q\$5S5sr+JofR0CpD+pskvLptAhAUvNWjKCtZ+F0UHKGHI	0.02199482918	0.01697206497			
P@ssw0rd2	Moderate	MD5	b1b3773a05c0ed0176787a4f1574ff0075f7521e	0.000001	-			
		SHA-1 with Salting	f11e216e84c4bfb44f379c98ebf462b34f2fdd4c	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$jDH1Spp0WrTLJOhggg0Oz Q\$ATx2r+UcDv6Q16E9xPHRLV50UG3N4PqVSkGvJj1zzDc	0.01691436768	0.01734185219			
Str0ngP@\$\$	Complex	MD5	31d6cfe0d16ae931b73c59d7e0c089c0	0.000001	-			
		SHA-1 with Salting	7c4a8d09ca3762af61e59520943dc26494f8941b	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$8MQvyAjY6m3stseyt0KIEA\$ oORe3BgLEI/prDZZVJ31grm3rn3gwogYQ+YU6AUz6wA	0.01725721359	0.01663374901			
C0mp13xP@\$\$!	Advanced	MD5	f899139df5e1059396431415e770c6dd	0.000001	-			
		SHA-1 with Salting	7cf6e32f9d3d347c7f1d1dbef419c57f15f05b50	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$2aFG+h88xw2yql6xPq4E2Q \$GQbiGwnp9RniMTaCyjjZJcd7+0wwO8+8LE/rGLkg+eY	0.01771402359	0.01817321777			
MyP@ssw0rd!2 023	Highly Advanced	MD5	8e5c2a50f86800a978e32b1d09772ddf	0.000001	-			
		SHA-1 with Salting	4a8a08f09d37b73795649038408b5f33b3068313	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$qxq2spY0SvNLdwHmXK6xR A\$ggFM2aRmm0UnLH3qWbavazO3Oge64f1yd4Wx09shCCc	0.0173637867	0.0171649456			
abcdef123	Basic	MD5	e99a18c428cb38d5f260853678922e03	0.000001	-			
		SHA-1 with Salting	12dadafeef8cfc29f07205c8e9fbaeb8b6c4056f	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$ts5oY54JK4szF37hNuW8TQ \$40JR2dxRE0EmWB00pGXMQYQA5U5GWBa+7/g86EFJvhU	0.01761603355	0.01754069328			
!@#QWEasd	Intermediate	MD5	e49b53a674f98c45fbaae841143e4f85	0.000001	-			
		SHA-1 with Salting	49023d02203d2780fa2d7e5a943c93acb8b5d258	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$8zy0nZMsBZwQlgcDLjvJIA\$ ezROvd1WM1kD71PfcpXciuDSili9Byw7nkWplQX2Wv8	0.0173728466	0.01702284813			
987654!@#	Intricate	MD5	0d0c9c4db6953fee9e03f528cafd7d3e	0.000001	-			
		SHA-1 with Salting	1c04e16c78d6a81c84ef8d6e2dccc111f73b674d	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$Dobv0pVHBqQp30HJRUSs Yg\$2ErJ/0wR+Hn+w2c4PxHJwGdPmicDqCnrrUtd4C9QR/k	0.01730298996	0.01717591286			
p@\$\$w0rd!2023	Advanced Complex	MD5	9c3e8ddf5e0b711b34b051a383493c86	0.000001	-			
		SHA-1 with Salting	78c4e37d355f8d3ef51cfc7eaf7b22ff8dd2e04d	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$qMrJ+fnNo0CQSQZZyd85F w\$eHMJVcBTfNc4rmGLQ6RRWHxDCJy+tPQxMNYqjATdj/o	0.01736187935	0.01742291451			
qwerty123456! @#\$	Sophisticated Complex	MD5	0d107d09f5bbe40cade3de5c71e9e9b7	0.000001	-			
		SHA-1 with Salting	b2f5ff47436671b6e533d8dc3614845d1463f855	0.000004	-			
		Combined SHA-256 and Argon2id	\$argon2id\$v=19\$m=16384,t=4,p=2\$cVOi40goOTAwE6Zm5XzgJg\$L0okOYkyrad/D/SVwCtgpGmUw2KPpP7CfjEOTtRO1FE	0.01769399643	0.01722192764			

Comparison of Password Hashing using MD5 and SHA-1 with Salting

Password	Complexity Level	MD5 Hash	SHA-1 Hash with Salt	Execution Time (MD5)	Execution Time (SHA-1 with Salt)
password1	Simple	7c6a180b36 896a0a8c02 787eeafb0e4 c	9e7d0d8f6cdbe585f31498e0d7f1287e089 11ed9	0.000002384185 7910156s	0.000003337860 107421875s
P@ssw0rd2	Moderate	53156f3a761 c9b8f0b978b cb3c5e62be	22b9bbaeff5e9d70696f02219a8da44a4a4 30fa1	0.000002145767 211914s	0.000003099441 5283203125s
Str0ngP@\$\$	Complex	82507c0b7a 1df6a7a3c4e d6e84bc151 5	89d2e9bc50042e86e06cd5395db8a8f17e 798b10	0.000002384185 7910156s	0.000002861022 94921875s
C0mp13xP@\$\$!	Advanced	779926e2c6 27b6e4ffb03 d55b2a5105 c	2dded7a5b489be5bb9e3c3c02ad769e3e1 80a344	0.000002145767 211914s	0.000003099441 5283203125s
MyP@ssw0rd!2023	Highly Advanced	3d65e6e4bb 9ac8f5ad6e4 d3a0f6dd28e	f5c27a68df1bda4dbb4d8d2877d2a29e3fd 30d02	0.000002622604 370117s	0.000003337860 107421875s
abcdef123	Basic	e99a18c428c b38d5f26085 3678922e03	ffb9b574e1d748f27e43a1d5e3cfaec9d676 65f3	0.000002145767 211914s	0.000003099441 5283203125s
!@#QWEasd	Intermediate	432e25204f1 c2ebcda9cf7 29f8d112a5	04ec7c3caa593fe5bb18a1e3035fa214160 16e26	0.000002145767 211914s	0.000003337860 107421875s
987654!@#	Intricate	132e3b9cfed 0ec2b6ddff8c f72d7dbb4	d0c9e8247f0dc2e0baf7f5a9c5bdfb0a34d8 e86a	0.000002145767 211914s	0.000003099441 5283203125s
p@\$\$w0rd!2023	Advanced Complex	8c5aee5d6b bf5d5afbbf9e 65e8f0dd94	35857dd760d373f1078a25d4db6b67b715f 7a998	0.000002145767 211914s	0.000003099441 5283203125s
qwerty123456!@#\$	Sophisticate d Complex	3ec72b32ef3 5d2e92cd44 55da53e5f67	3a1ec3d8e43cd5ae2851fda81e6218e1a8 2b4517	0.000002145767 211914s	0.000003337860 107421875s