**Password Cracking Activity Results**

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**Course:** SDEV 300

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|  |  |  |  |
| --- | --- | --- | --- |
| **Password** | **Hash Type** | **Hash Output** | **Did Crackstation Work?** |
| Python | MD5 | a7f5f35426b927411fc9231b56382173 | Yes |
| SHA-256 | 18885f27b5af9012df19e496460f9294d5ab76128824c6f993787004f6d9a7db | Yes |
| SHA-512 | fd9d4d5b7a8a8fae6b1bc099b799110f7e4338606e2610f5d9506a4346e0c3bfbc525f4eed1e05aa8c6f46b8efff526ec48b500928a1b341ade5a7855f533932 | Yes |
| BLAKE2B | 194beae1cacf756ab8c43778bcdf1f5bc374e7ecbb3da8d926d2b092097ddac1b4eacd28d91a1fc9305424d483ba06e742fe3246902975c85e304eb83db78bef | No |
| Python3 | MD5 | ca60b3698dd3d27a5f91e4dc0a1a2546 | Yes |
| SHA-256 | 4b4ce71430a52765e1377eda056eb64e4f33d859433d23e18a48c656be57c43b | Yes |
| SHA-512 | a1dbd46eb7534c4b4bb4b13ded146946bc88b4ac73b8754b424b31295d74a152f800c63f0b832c1048d1426626cefc6efde198b894b0c7253775f38281ce9714 | Yes |
| BLAKE2B | 7272f7a610f6288edf7291d647aea84020907a69d691a4111b6be721d28d74a6d816b6ffe340a58ef039d456f664c2cb5b6800461f3c4601f51f7c242f0e3c3e | No |
| Python3@ | MD5 | 1fa5e22bbe367101a09156059ccde5b4 | No |
| SHA-256 | 2e9e2ff1e2a3035f0c2b704dca44148e4806720c8d2312c716a8e4aea3445afa | No |
| SHA-512 | 2eca0bfe9c65e9644cd3d9961ccd5e975a9ff1268334b9e1b2410a6fc5d4f3877c1282673f589c5b6bf6dfa37cdd53c38f580af82dac09bb29ae00b23145c8b8 | No |
| BLAKE2B | c475f68ef4fccfc63ba55bcd2422604ebf730d556e8e5443e2949c65fe8a794316d22c0acaa9ac5655889d5cbbbd3719244c919a2180a9cd7cfdd57475b0d195 | No |
| password123 | MD5 | 482c811da5d5b4bc6d497ffa98491e38 | Yes |
|  | SHA-256 | ef92b778bafe771e89245b89ecbc08a44a4e166c06659911881f383d4473e94f | Yes |
|  | SHA-512 | bed4efa1d4fdbd954bd3705d6a2a78270ec9a52ecfbfb010c61862af5c76af1761ffeb1aef6aca1bf5d02b3781aa854fabd2b69c790de74e17ecfec3cb6ac4bf | Yes |
|  | BLAKE2B | fbdba996cade3bae2d948c2f03f8149ffa7068584731ac6efbef1688e64609b6969a52dcc203b74aa87d6d9d1b0cd93bea724cddd12443f2b808bc03776b81cc | No |
| Password123# | MD5 | 20e736eca09b1df940e7f594be3ffa07 | No |
| SHA-256 | d6b02a68f3081f455b826185a24d94f8df127e188c93bad01ddcccce794a4e8b | No |
| SHA-512 | 8714642239d85afaea8756379aa88d994003cdbbb38683a56d4920bf58ae906f998ca9779842b1726a983fd6d9e14383134323d044f5c31335c436b358141ab5 | No |
| BLAKE2B | 6381ae66ddcb9408a4cc7be70b443c24d0f8135d328305fabede280579ec20df62fe60b49512e942776cef67877b173fdfd11af177fde07a1b120772ef30e7c4 | No |
| fuPLXecHoPUb2&DufrLd | MD5 | e0d912ad2c9f487ad37d828385b2464f | No |
| SHA-256 | 8a50e125f3df7e5d7aea35b360a3ad69afebb5248e970952df13ea643fdc5603 | No |
| SHA-512 | a7cb26bb0fa4f02ae16c1d3a2999acde06c1e8af2161808f91adfb4a717cd21ca9d3de1089476f18c8dc08847331aab79615322af0750fd95541e7be2b989d16 | No |
| BLAKE2B | 37fb31328e46cab18d5bb0c82dca7533269a834b9ae627862f2b04a20d9860d5ffe6d862c284510bef401686d228587a6c57736b90062e5f35debd37068bc4fa | No |
| neqib6E-lrat0u3ro\_r7 | MD5 | b8930560da7af5ba8d55ea1e428b3e77 | No |
| SHA-256 | 666781d44c6006c470a7967f545e42a39d0f818e01dc478c009702d853af09da | No |
| SHA-512 | 81bdb0568da908f52b9ab317c9fc812bb3f0a7843900de7fdacdb9011385ceeb32beb77872f458c1f0c1f008f20b20d8dc329e983a301c1202260c2850d519b2 | No |
| BLAKE2B | 15afc845f4c7e09422888217443d781e324c24b8d59e8ada57ff672d560f81848757b32c3c51d99508f0c0c1e66761585a12778a4413769f6d22649dceaded5a | No |
| 123@#$ | MD5 | 1db06ed346f069d21ec8022739575e55 | Yes |
| SHA-256 | 01da8e6a5bf47ef917733e1e96fdabace1ce24dbfa5042fc3c43ff28901d12ac | Yes |
| SHA-512 | 8fb9e4b4d6fac7285335e3d684dcbd6ca9fefe3439c90abeb3f80370440a0bbd7fee60eb8a900fb28ed8698ff219cb5735c9ec870d1d42b8b1b35b9c41973201 | Yes |
| BLAKE2B | d80d83f566245a38517c4d06a03bb4b49b79e046704107ed2e0fe8075ea6cabbad2644c2cf05fc8188ada63003abafcd2098176ce88538546fe27b334f2aa505 | No |
| 123@#$x | MD5 | c06233a0d0e6f54afe623c8a09834f08 | No |
| SHA-256 | f7b8292e8691e4228216aabff3c34c218ac321569ae6cfbbe2190bf0aa58703e | No |
| SHA-512 | 982b12c9293e67171d8fc376c2fec168ea9a5de83b7194878ccd976a124345f29ae417a04284036af0c9e24858674d226a1ca16bddab8282acea920b8fdf5d29 | No |
| BLAKE2B | c90d8b353930f25ceb69ee3749fd5fa22d4f509aaac3aae96aa7c2d8b005e1eee2d3a706a4a1ba70e4087d4af81e4bdbfcc1628493056df72664c0f15e9ea4ac | No |
| !@#abc | MD5 | 4a31cf71d581d125aa955915265b8db9 | Yes |
| SHA-256 | 59c2aba4a9c8049374bdc2935973bad8b7c01adef235276288b074b7c691ea91 | Yes |
| SHA-512 | f28e1d0849dab6d86d22830bc2e76fd15f702cdd666af76d4c723b4948f4d074ba9e23ea590aff11efbbe7481e6e4a5384774ca108437760ee0924097f133720 | Yes |
| BLAKE2B | 494a29143a10642d48238e28673b6081c5b4cd47cbc7fe034473c907989cae3684e5596e59c9edc60639360bd63a4f211bde71a9bea52d9fd5978d990f71a304 | No |
| asdFGH | MD5 | 75baaf075eae7ed6275292969cc05aed | Yes |
| SHA-256 | df33fc8ac903a0495014825d15242f1f77d573ebb36869fc689aa4d3afd93468 | Yes |
| SHA-512 | b334a650ac92629353b86e869d1e973b91d18acee81cdd97c266c27fdc0671b7153375d8043d9f431eb2ab402829cdff13d66844e8035c58c3940b335ad283d5 | Yes |
| BLAKE2B | 18ccd6f8b74eca967fe5df739abd5d9e043dec54b8f3adf192b1564accf4c5f1fd6614179c763b7207cf18315d81e51f09f028166b3056467a0e5b5bd06ed6b8 | No |
| 43asdFGH | MD5 | 89b9d6fdb455bb378ea3ace708d39b68 | No |
| SHA-256 | b37db229ce645078e405752db4cb9811243e3603444980b4b307aa19b387c7e2 | No |
| SHA-512 | 33faf3da7bbc1c4744188a5d397b718bdb53adc8a790cb457023f343140cd787f130ecd820ffc535cf5242b87fd555d9f54c64fff32416b1544615ee3d36756a | No |
| BLAKE2B | 7912924ca1b6a8e00b0b98124a77c5445c06312d9b1a3f8edb13d9a535e5dd7f3e2fce26e8258b8ba9fdf81f2dedc9b909ad8e9ebccd6d472bb36d9beaa2086c | No |
| @&6%$?/ | MD5 | 09f618c71e024a5bdb1cd5e819cabb88 | No |
| SHA-256 | 77137b51b06869ab1e6e2aef69197e1f96c49bdae8605a5781c993229d9c33aa | No |
| SHA-512 | 4dbe89d3c495259c84a5e9674f2b32e8e31ce76c1f3ee549f14e4bdbec5d4f54ccda9185d002a45a4127c0a18cb18d02ee6d18c71dd4068395ca23b907854d02 | No |
| BLAKE2B | d1c8c8ed9a40ecafe9d9203c5831e47072ac820281defd72c33356eb1a51c913a3787148859a0d0596486d2e21a8fd72a61774f6a72d3c0125cfd19b804a2ad5 | No |
| THikawr7C!Es=ephEdo4 | MD5 | 068528000e45230d8662c8b11ba9a967 | No |
| SHA-256 | 83e208a3030f66beeff5fa1f338db72192613cec0b951c6c54af39d03ea4f0d4 | No |
| SHA-512 | c2279312c58a066d04164f4731fb603b53a69b99bfe2b4f47f0f4ae9881bbc4bdbefae592b572991db618a90d3ae948aa4a4d9e25e12a488606757482d9c7c64 | No |
| BLAKE2B | 997dcfc24f0beb4bc8c3d0b0181c30f919961b91aaff63a492cf4540bd3d18adf13691e2b3309013bb375c8c537477b20102f33593ef6c069aa34d7461fcecdd | No |
| Smith1956 | MD5 | 85cff03ee126ea6f1040bc032b7229c4 | No |
| SHA-256 | 302189ae7ce0b40e4db1ae75baee43b5090c4eb09fcf11f35827427afb89fc87 | No |
| SHA-512 | 57e2acc6eca16a31b6e1eb2808953dc5d3928cd724ff5e0bb927d45f51d80e1798012d0102d34eb8d91bb1ef385db99250e4db7361e49b5156edc56b5c6ce4cd | No |
| BLAKE2B | 8ce53847bb58cd44cfa64972c87c045ad6bf0f378015ad15a8cb8dc1cbbada2eeb7f81f6aa20d05d2eb459b82fd90c74438ed932e7ed423ef4f34d83e7e485c7 | No |
| smith1956 | MD5 | d63612fc63385c0efec9522383e7810a | No |
| SHA-256 | c66346fd45f0c3b79b033bd4df631b8f85b8ca962492a8365463ffc4b797a8e3 | No |
| SHA-512 | dc7345a29c3295a0a479e1677ac83bfeeee5124df36f359295c2415c9de96284640e4abc7c5a571944149a976c669da1e641acb744da6153ea329ff10bd20a6a | No |
| BLAKE2B | 21d22d419745b82c95ed79e4a567200c2fa64b7bac251698bb5149733fca17147d9eb57032095e85de9f827be2cdfc484f3de10eb97c4c59257cc3a7adaddbc8 | No |
| smith@# | MD5 | 76fc295b95897c9309a7322d35140b7d | No |
| SHA-256 | 86854d4601b3868e0395cb8b5b1b91294ec0dcb2b7bd7f145537c83c81835857 | No |
| SHA-512 | 17dbbb5d09aff87da5885b19d2c895a3015f52525ea9b129293f327f1a652aec6e1e861fef3f398486026da848b42df2a1c23ee27716a3eadf4c0465184f371a | No |
| BLAKE2B | 62d099d9239e3f6109e72aad0cebe2062bd85238800884482d4c736e7a1de778554814525cd1aba251f1ced5e5c71537985e3799d83fa7cd550054360af266e9 | No |
| 142760245317 | MD5 | 4e9ec020358e24e3fbfa8f1c298ecf05 | No |
| SHA-256 | 4877620e1d62f2beb3ddaf043bbceb7d46d35cb13d2ff2a2a43e767c732575aa | No |
| SHA-512 | 7026502bb0532fedcf30aba91fa80b41d9109e99e5cc86da9f54efdaa2a482e8b66f5ec60ecd5fcf8c595f2101bea59804e7da7927d808eab4411f657e17ee94 | No |
| BLAKE2B | 5a7f37d23a16076940ca18e13da559499740a066a2c18045c315bf013a5c276aaad8ec7a8eb3616d7d0634ffa210520a6143d5574f528c420a3787738148ae7b | No |
| 1427 | MD5 | 970af30e481057c48f87e101b61e6994 | Yes |
| SHA-256 | 58fba35ac3591d27507b733ea4a6dc1c8b1c2cf04ddbbd6b3d4a4da3a3c8fd3c | Yes |
| SHA-512 | 84606eeeb1fc40af4828ab388b9dbd75363e83a9cf771d41244886b1557e16994ce7996d18caffec8b1f04a45a3d47660db6c725bc7d58ea0316d4f55e9dc58a | Yes |
| BLAKE2B | 91481bd79b9fc786fcc6ad79d39797ff5948ab0bbe8c839b3d1a9b442718c9cebc0eb28f345f37f241abffff48a4251b6eba49318515809191683d918512d12e | No |
| 1427AB | MD5 | 37a32a8c762532fded48584172794836 | No |
| SHA-256 | b71b14a1e7adfe713f6214fc2dd7882e1f4bce253d5bff479856692af24a8889 | No |
| SHA-512 | 4eb80bdc050abae0ab0076edc58ed1d62edea3c04027379b326e007f17a2877910fdf7f99b5e80dcdbdf9c57d1b354f4bbf089a411a576ba24244c8277821ca0 | No |
| BLAKE2B | 8b3a295b16e734d66b3c4671deed3269ae0c9664be9bac5446ce8c487287358ad7349f430d7d78d6861f08adbb17121e7120e50addb564c0a209d50cd153c5ab | No |

**Lesson learned from the password cracking activity:**

From this activity I learned how to use different python built-in hash algorithms such as MD5, SHA256, SHA512 and BLACKE2B. I also learned how to generate random passwords using Norton password generator. I learned how to manipulate hash values using crackStation. I have also learned how to salt a password to add some strength and prevent quick decryption.

**What would you recommend as possible strong passwords after completing this activity in your report?**

After completing this activity, I would recommend using a password that has a combination of upper- and lower-case letters, numbers, and special characters. I also find that the Norton random password generator creates a strong password.