



Encoding vs Encryption vs Hashing

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Different ways of Pwd management		
Encoding	Encryption	Hashing
<ul style="list-style-type: none">✓ Encoding is defined as the process of converting data from one form to another and has nothing to do with cryptography.✓ It involves no secret and completely reversible.✓ Encoding can't be used for securing data. Below are the various publicly available algorithms used for encoding. Ex: ASCII, BASE64, UNICODE	<ul style="list-style-type: none">✓ Encryption is defined as the process of transforming data in such a way that guarantees confidentiality.✓ To achieve confidentiality, encryption requires the use of a secret which, in cryptographic terms, we call a "key".✓ Encryption can be reversible by using decryption with the help of the "key". As long as the "key" is confidential, encryption can be considered as secured.	<ul style="list-style-type: none">✓ In hashing, data is converted to the hash value using some hashing function.✓ Data once hashed is non-reversible. One cannot determine the original data from a hash value generated.✓ Given some arbitrary data along with the output of a hashing algorithm, one can verify whether this data matches the original input data without needing to see the original data