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Explain SHA 512 with example?

SHA 512 hash function is a function that generates message digest 512-bit size and 1024 bit block length. How the cryptographic algorithm works SHA 512 is to accept input in the form of a message with any length or size and will generate a message digest that has a fixed length of 512 bits as shown in Figure 3.

For example, a 512-bit string of data would be transformed into a 256-bit string through SHA-256 hashing. In cryptographic hashing, the hashed data is modified in a way that makes it completely unreadable. It would be virtually impossible to convert the 256-bit hash mentioned above back to its original 512-bit form.

MD5, SHA-1, SHA-256, and SHA-512 are all cryptographic hash functions that are used to generate a fixed-size output, known as a hash value or digest, from an input of any size. They are commonly used