

Cryptography

To Encrypt and Decrypt file using Openssl :

To Encrypt

#openssl enc -des-ecb -in input_file -out encrypted_file

//this will encrypt input file in DES(ECB) format

//we can put any of the below encryptions format in above highlighted part

Cipher commands (see the 'enc' command for more details)

aes-128-cbc	aes-128-ecb	aes-192-cbc	aes-192-ecb
aes-256-cbc	aes-256-ecb	aria-128-cbc	aria-128-cfb
aria-128-cfb1	aria-128-cfb8	aria-128-ctr	aria-128-ecb
aria-128-ofb	aria-192-cbc	aria-192-cfb	aria-192-cfb1
aria-192-cfb8	aria-192-ctr	aria-192-ecb	aria-192-ofb
aria-256-cbc	aria-256-cfb	aria-256-cfb1	aria-256-cfb8
aria-256-ctr	aria-256-ecb	aria-256-ofb	base64
bf	bf-cbc	bf-cfb	bf-ecb
bf-ofb	camellia-128-cbc	camellia-128-ecb	camellia-192-cbc
camellia-192-ecb	camellia-256-cbc	camellia-256-ecb	cast
cast-cbc	cast5-cbc	cast5-cfb	cast5-ecb
cast5-ofb	des	des-cbc	des-cfb
des-ecb	des-ede	des-ede-cbc	des-ede-cfb
des-ede-ofb	des-ede3	des-ede3-cbc	des-ede3-cfb
des-ede3-ofb	des-ofb	des3	desx
rc2	rc2-40-cbc	rc2-64-cbc	rc2-cbc
rc2-cfb	rc2-ecb	rc2-ofb	rc4
rc4-40	seed	seed-cbc	seed-cfb
seed-ecb	seed-ofb	sm4-cbc	sm4-cfb
sm4-ctr	sm4-ecb	sm4-ofb	

// Here we have to generate a encryption key/Password

To Decrypt

#openssl des-ecb -d -in encrypted_file -out decrypted_file -K key

// -K is used to provide key/Password