

對稱密碼系統操作



✦ 命令彙集

```
H:\SecureLab\study>openssl
OpenSSL> ?
...
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  base64      bf          bf-cbc      bf-cfb
bf-ecb      bf-ofb      cast        cast-cbc    cast5-cbc
cast5-cfb   cast5-ecb   cast5-ofb   des         des-cbc
des-cfb     des-ecb     des-edc     des-edc-cbc des-edc-cfb
des-edc-ofb des-edc3    des-edc3-cbc des-edc3-cfb des-edc3-ofb
des-ofb     des3        desx        idea        idea-cbc
idea-cfb    idea-ecb    idea-ofb    rc2         rc2-40-cbc
rc2-64-cbc  rc2-cbc     rc2-cfb     rc2-ecb     rc2-ofb
rc4         rc4-40
```



命令格式 - enc



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```
openssl enc -ciphername [-in filename] [-out filename] [-pass arg] [-e]
    [-d] [-a] [-A] [-k password] [-kfile filename] [-K key] [-iv IV] [-p] [-salt]
    [-P] [-bufsize number] [-nopad] [-debug]
```



命令格式 - enc



✿ 操作範例

```
H:\SecureLab\study>type data.txt          【顯示原明文內容】
012345678901234567890123456789
H:\SecureLab\study>openssl rc4 -in data.txt -out cipher.txt  【加密處理】
enter rc4 encryption password:           【輸入加密鑰匙：1234567】
Verifying - enter rc4 encryption password:  【重複輸入加密鑰匙】
H:\SecureLab\study>openssl rc4 -d -in cipher.txt -out plain.txt  【解密處理】
enter rc4 decryption password:           【輸入解密鑰匙】
H:\SecureLab\study>type plain.txt        【顯示解密後明文】
012345678901234567890123456789
```

