

# SSL□□□□

- [openssl□□□□](#)
- [IIS Crypto□□](#)

# openssl

cer

Linux openssl cer crt

```
openssl x509 -in server.cer -out server2.crt -inform DER
```

crt cer(DER)

```
openssl x509 -in server.crt -out server.cer -outform DER
```

crt key pfx ca

```
openssl pkcs12 -export -in server.crt -inkey server.key -out server.pfx -certfile ca.crt -password pass:123456
```

pfx pem

```
openssl pkcs12 -in server.pfx -out server.pem -nodes -password pass:123456
```

pem crt

```
openssl x509 -in server.pem -out server.crt
```

pem key

```
openssl rsa -in server.pem -out server.key
```

pfx crt ca

```
openssl pkcs12 -in server.pfx -nokeys -out server2.crt -nodes -password pass:123456
```

pfx key

```
openssl pkcs12 -in server.pfx -nocerts -out server2.key -nodes -password pass:123456
```

crt p7b

```
openssl crl2pkcs7 -nocrl -certfile server.crt -out server.p7b -certfile ca.crt
```

pfx→jks

```
keytool -importkeystore -srckeystore server.pfx -destkeystore server.jks -srcstoretype PKCS12 -deststoretype jks -s
```

jks→pfx

```
keytool -importkeystore -srckeystore server.jks -destkeystore server2.pfx -srcstoretype jks -deststoretype PKCS12
```

3→hash

```
openssl pkey -in server.key -pubout -outform pem | sha256sum  
openssl x509 -in server.crt -pubkey -noout -outform pem | sha256sum  
openssl req -in server.csr -pubkey -noout -outform pem | sha256sum
```

→crt

```
openssl x509 -in server.crt -text -noout
```

→

```
openssl verify server.crt
```

→key

```
openssl rsa -in server.key -text -noout
```

→key

```
openssl rsa -noout -text -check -in server.key
```

→server.pfx

```
openssl pkcs12 -info -in server.pfx
```

→server.jks

```
keytool -v -list -storetype jks -keystore server.jks -storepass 123456
```

→:cer→IS→crt→apache→nginx→

→

cert→cr certificate→

windows:cer pfx p7b cer der ( ) base64 (plain text)

apache nginx pem crt

java jks pfx

pem .crt .key

-----BEGIN CERTIFICATE-----END CERTIFICATE

-----BEGIN RSA PRIVATE KEY-----END RSA PRIVATE KEY

-----:

<https://ssorc.tw/7142/openssl-command-line-convert-file-for-pem-der-p7b-pfx-cer/>

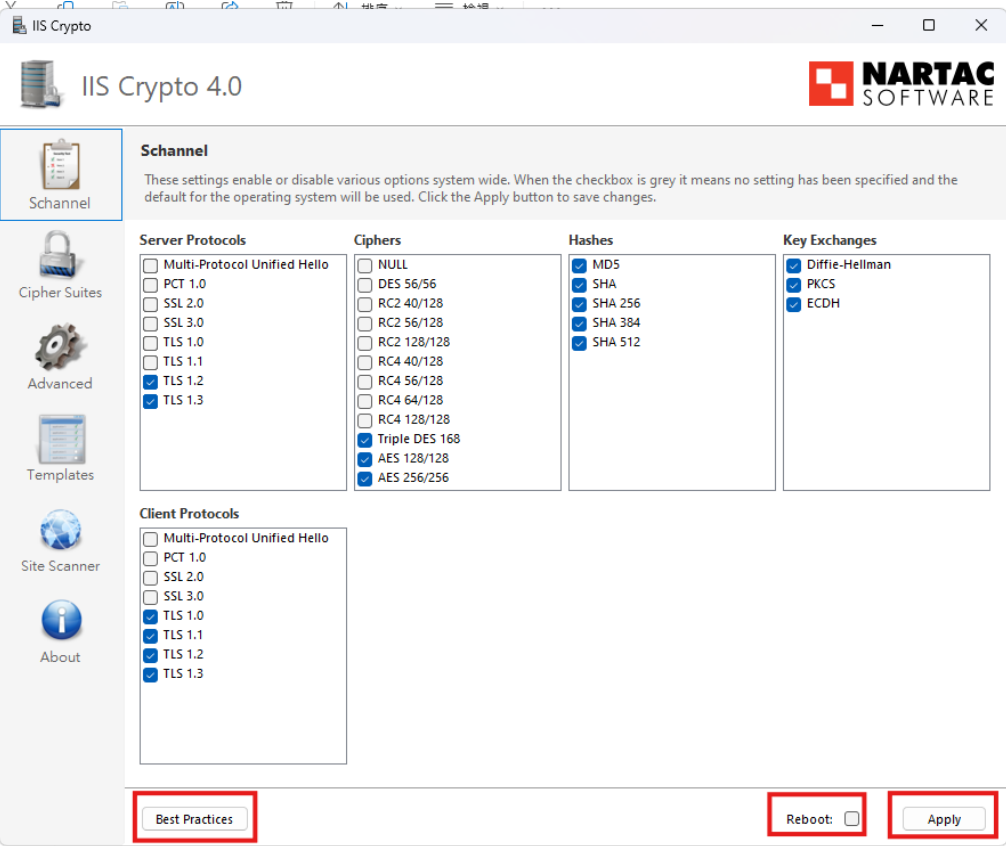
# IIS Crypto

Windows Server 2012 Win8 Windows

URL: https://www.nartac.com/Products/IISCrypto/Download

Windows

Best Practices Reboot Apply



:

1. Windows OS Client (Server Protocols) (Client Protocols)

2. Windows

```
Windows Registry Editor Version 5.00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Client]
```

"DisabledByDefault"=dword:00000001

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.0]

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.0\Client]

"Enabled"=dword:00000000

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.0\Server]

"Enabled"=dword:00000000

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.1]

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.1\Client]

"DisabledByDefault"=dword:00000000

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.1\Server]

"DisabledByDefault"=dword:00000000

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2]

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client]

"DisabledByDefault"=dword:00000000

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server]

"DisabledByDefault"=dword:00000000