

Extraer certificado

Clave privada:

```
openssl pkcs12 -nocerts -in certificado.pfx -out privada.key
```

```
Enter Import Password:  
MAC verified OK  
Enter PEM pass phrase:  
Verifying - Enter PEM pass phrase:
```

Lo exporta con contraseña:

```
-----BEGIN ENCRYPTED PRIVATE KEY-----  
MIIFDjBABGkqhkiG9w0BBQ0wMzAbBgkqhkiG9w0BBQwwDgQILFir/Nb0HJACAggA  
MBQGCCqGSIB3DQMHBaidM8a4rnD0rQSCBMjCX8wEM2YSubkiN4LpMKBE0t54Xghg  
jKHzVep8NnhnQYtZvSLjLJUFeSn3pz4UDVUbpGH9StzvLVpPIbM06+0eex1Pa1LV  
Rruaw9syrm60LuTeWj4QZVgMtmOMBtvYH6h05635NWfJ0TgA6FVholSLnsZ7T3+1  
ZGkcquDL+3pb8QNRMTKxWrTQFMqP3JR+tfkMQcXme4lhXv2qje7wq4QAg8SKBfKe  
+2o=  
-----END ENCRYPTED PRIVATE KEY-----
```

Para quitarle la contraseña:

```
openssl rsa -out privada_NOKEY.key -in privada.key
```

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEowIBAAKCAQEAIDAtwYEh0SXYEJcIHxFUSI/qj2RzYusPcZnMbzs7nfl3uq7  
2Rb9RdI4JcIlGr8WGXDNFj6xIYu30VchXQ33zJuLky0Hyi5Hsiy9FslKnmT00Y5q  
PgowtGjUSGSnzWL4kVbTpKokALWDCMwqm+UV6XQxrJXg51/DWHqgjnqAJcyeaj3K  
+nRWuwKBgAk8/Ms6rVn1UIiozelF4IY4Su18tqaBS9ri2ILnbU5K7RISfhJfc/FQ  
f743M15B402W0gsoJ21NtKmEV75XqU6wlKruSvAaHHdHAQBbLWq28WtMG2gMo1WP  
qQrsKQEwoa6K9he52vZz8UNLSWSiqVbcTC3ThTWYmti0E20R/H+Q  
-----END RSA PRIVATE KEY-----
```

Clave pública:

```
openssl pkcs12 -clcerts -nokeys -in certificado.pfx -out publica.cer
```

```
Enter Import Password:  
MAC verified OK
```

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