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How to convert certificates from P12 to PEM formats?

Several CLI commands require a valid user digital certificate. To install certificate, user should set parameters `x509_user_key` and `x509_user_cert` in `~/.etics.conf` so that they point to proper `*.pem` files.

How to convert digital certificate from `.p12` to `.pem` format?

- *input*: `cert.p12` – certificate in `.p12` format (pkcs12 – format commonly used by WebBrowsers)
- *output*: `cert.pem` – certificate in `.pem` format (use it as both `X509_USER_KEY` and `X509_USER_CERT`)
- *procedure*: execute (you will be prompted for a password):

```
openssl pkcs12 -in cert.p12 -clcerts -out cert.pem
```
- This is based on: [OpenSSL manual](#)

-- Main.kokoszka - 10 Jan 2007

This topic: ETICS > [HowToConvertCertificatesFromP12ToPem](#)

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