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OpenSSL

OpenSSL is a robust, commercial-grade, and full-featured toolkit for the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols. It is also a general-purpose cryptography library.

OpenSSL does not distribute code in binary form. However, you can download it from other websites. Visit wiki.openssl.org, select and download OpenSSL for your platform. For example, click on the <https://slproweb.com/products/Win32OpenSSL.html> link to download the installer for Windows. You can download the light or full version, as shown below.

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https://slproweb.com/products/Win32OpenSSL.html

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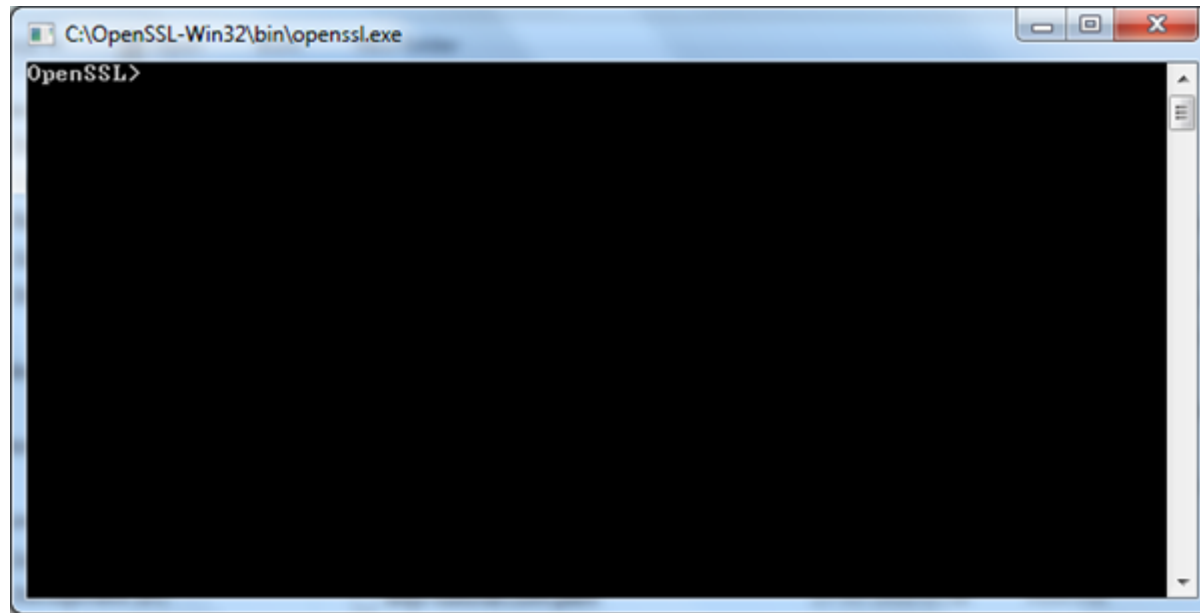
File	Type	Description
Win32 OpenSSL v1.1.0h Light	3MB Installer	Installs the most commonly used essentials of Win32 OpenSSL v1.1.0h (Recommended for users by the creators of OpenSSL). Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win32 OpenSSL v1.1.0h	30MB Installer	Installs Win32 OpenSSL v1.1.0h (Recommended for software developers by the creators of OpenSSL). Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win64 OpenSSL v1.1.0h Light	3MB Installer	Installs the most commonly used essentials of Win64 OpenSSL v1.1.0h (Only install this if you need 64-bit OpenSSL for Windows. Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win64 OpenSSL v1.1.0h	33MB Installer	Installs Win64 OpenSSL v1.1.0h (Only install this if you are a software developer needing 64-bit OpenSSL for Windows. Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win32 OpenSSL v1.0.2o Light	2MB Installer	Installs the most commonly used essentials of Win32 OpenSSL v1.0.2o (Recommended for users by the creators of OpenSSL). Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win32 OpenSSL v1.0.2o	20MB Installer	Installs Win32 OpenSSL v1.0.2o (Recommended for software developers by the creators of OpenSSL). Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win64 OpenSSL v1.0.2o Light	3MB Installer	Installs the most commonly used essentials of Win64 OpenSSL v1.0.2o (Only install this if you need 64-bit OpenSSL for Windows. Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.
Win64 OpenSSL v1.0.2o	23MB Installer	Installs Win64 OpenSSL v1.0.2o (Only install this if you are a software developer needing 64-bit OpenSSL for Windows. Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.

Donate to Shining Light Productions

Shining Light Productions puts forth a lot of effort into developing Win32 OpenSSL. As such, if you find it useful, a time-saver, or helps to solve a frustrating problem, seriously consider giving a donation to continue developing this software.

Download OpenSSL Installer

Click on the installer and finish the installation wizard. After installation, go to C:\OpenSSL-Win32\bin and double click on openssl.exe to start working with OpenSSL. This will open a command prompt on Windows, as shown below.



OpenSSL Console

OpenSSL Commands to Convert Certificate Formats

If you have got certificate files from the CA which are not supported on your web server, then you can convert your certificate files into the format your web server or hosting provider requires using OpenSSL commands.

To know about all the commands, apply the `help` command.

```
Openssl> help
```

To get help on a particular command, use `-help` after a command.

```
Openssl> pkcs12 -help
```

The following are main commands to convert certificate file formats.

Convert PEM to DER Format

```
openssl> x509 -outform der -in certificate.pem -out certificate.der
```

Convert PEM to P7B Format

```
openssl> crl2pkcs7 -nocrl -certfile certificate.cer -out certificate.p7b -certfile CACert.cer
```

Convert PEM to PFX Format

```
openssl> pkcs12 -export -out certificate.pfx -inkey privateKey.key -in certificate.crt -certfile CACert.crt
```

Convert DER to PEM Format

```
openssl> x509 -inform der -in certificate.cer -out certificate.pem
```

Convert P7B to PEM Format

```
openssl> pkcs7 -print_certs -in certificate.p7b -out certificate.cer
```

Convert P7B to PFX Format

```
openssl> pkcs7 -print_certs -in certificate.p7b -out certificate.cer
```

```
openssl> pkcs12 -export -in certificate.cer -inkey privateKey.key -out certificate.pfx -certfile CACert.cer
```

Convert PFX to PEM Format

```
openssl> pkcs12 -in certificate.pfx -out certificate.cer -nodes
```

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