Certificate Converter Reference

Generate and manage security certificates.

Certificate Converter is a command-line utility included in the software platform installation package. It converts client certificates in PEM format into a password-protected PFX file. The tool is located in the product's installation directory, typically under ... \<product_name>\<product_version>\Utilities\CertificateConverter.exe.

The utility supports .pem certificate and key files, along with an optional root certificate authority (CA) file. It requires .NET Core 5.0 and a Windows x64 environment.

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Purpose and Key Concepts

The `CertificateConverter.exe` utility is used to generate a `.pfx` certificate file by combining a client certificate, its private key, and a optional root CA file. The output is a single, encrypted certificate file suitable for secure import into various systems.

Key concepts

- **PEM certificate file**: A Base64-encoded certificate file, typically named with `.pem.crt` or `.pem` extension.
- **PEM key file**: A Base64-encoded private key file, usually with a `.pem.key` extension.
- **Root CA file**: A trusted certificate authority file, often required by some systems. Usually with a `.pem` extension.
- **PFX file**: A binary format (PKCS #12) that combines a certificate, private key, and optionally a root CA into a single encrypted file.

Command-line arguments

- `/certificate:` Path to the PEM certificate file.
- `/key:` Path to the PEM private key file.
- `/rootca:` Path to the PEM root CA file (optional).
- `/password:` Password to secure the output PFX file.

Example usage

To use it, run the executable from the Command Line with the input arguments. The syntax would be as detailed below:

Certificate Converter

```
CertificateConverter.exe /certificate:"<PathToCertificateFile.pem.crt>" /key:"<PathToKeyFile.pem.key>"
/rootca:"<PathToRootCA.pem>" /password:<PasswordForExportedCertificate>
```

After that, the PFX file is created in the same folder as the certificate in PEM format input file.

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