

SECURFTP/SSL

Providing FTP programs with secure SSL/TLS encryption

System Requirements

NonStop System

- ▶ H06.15 or later
- ▶ J06.04 or later
- ▶ L16.05 or later

SecurLib can be called from C,C++, pTAL and COBOL. Native compilers are required.

Partner System

Any FTP Client/Server compliant with RFC 4217 ("Securing FTP with TLS").

Some popular examples are

- ▶ Filezilla – see filezilla-project.org
- ▶ IBM z/OS and OS/400 – the IBM FTP servers on those platforms support the TLS extension and are compatible with SecurFTP

The SecurFTP remote proxy component runs on any platform with a Java Virtual Machine for Java 8 or Java 11.

Today many organizations exchanging data between computer systems via unencrypted FTP are facing serious challenges. User names, passwords, and files are sent across the network in the clear, making FTP transfers vulnerable against sniffer attacks to spy on or change data during transit across the network. Furthermore, accessing an HPE NonStop system through standard FTP always requires the requesting user to present his system known ID and corresponding password for authentication. Without the ability to restrict specific users from accessing the system through FTP or from accessing specific files, the use of the standard FTP server can cause severe security concerns.

Purpose

SecurFTP/SSL provides secure FTP file transfer for HPE NonStop systems. To protect data confidentiality across the network, it supports FTP session encryption via the SSL/TLS protocol, both for the FTP client and server. The solution also includes various enhanced security features, which allows sophisticated access control to reduce the risk related to granting FTP access to a NonStop system.

[Note that SecurFTP is also available supporting the "SFTP over SSH" standard, please see the product sheet SecurFTP/SSH for details].

Features

SecurFTP/SSL takes advantage of the most widely used and accepted security protocol: **Highly Secure Connections with SSL/TLS**. All standardized SSL/TLS versions up to version TLS 1.2 are supported, along with the strongest cipher suites available from the TLS 1.2 standard, like RSA or Elliptic Curve based key exchange combined with 256 bit AES in Counter mode with SHA384 MAC.

Support of Public Key Infrastructure (PKI) allows you to enforce both client and server authentication. Use of strong bit-size Elliptic Curve, RSA and DSA certificates is supported.

SecurFTP/SSL is **compliant to the FTP RFC 4217 - Securing FTP with TLS** (see www.ietf.org). SecurFTP can therefore provide standard-based secure file transfers between the NonStop platform and many other systems.

The RemoteProxy component will SSL-enable any existing FTP client or server running on any platform where a Java Virtual Machine is available, making SecurFTP a true **any-to-any solution**.

SecurFTP/SSL provides advanced **auditing capabilities**. An audit file containing all FTP operations initiated from remote peers can optionally be written. This allows to fully keeping track of who is accessing your system via FTP and what operations are executed. Auditing fully supports OSS and can also be used without requiring encrypted file transfers.

SecurFTP/SSL provides **firewall functionality**: Access to the protocol without encryption can be disabled if required. The remote IP address can be limited by implementing white lists and black lists.

SecurFTP/SSL supports IPv6 FTP connections in compliance with RFC 2428.



Benefits

SecurFTP/SSL is **transparent to your existing FTP environment** and therefore requires no changes to any existing batch infrastructure.

With its first release in 2002, SecurFTP was the first SSL/TLS-enhanced FTP implementation for the NonStop platform. SecurFTP is a **proven solution** in production on NonStop systems world-wide.

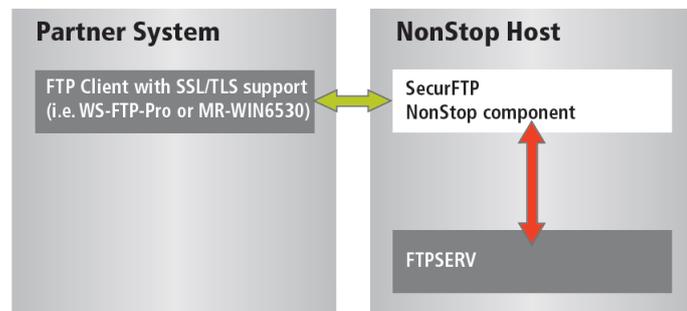
Because SecurFTP/SSL is standard-compliant, it **will interact with any FTPS implementation on partner systems**. For instance, SecurFTP/SSL will work with common Windows-based FTP clients such as WS-FTP-Pro or CuteFTP-Pro.

Small footprint on the NonStop system: SecurFTP/SSL consists of less than 10 files to install and is easy to configure and manage.

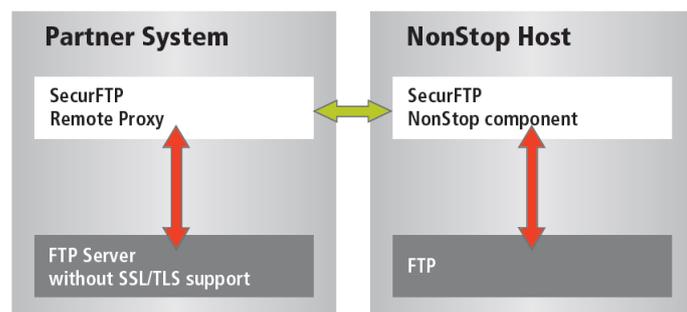
Architecture

On the NonStop platform, SecurFTP/SSL runs in native mode under the Guardian personality, resulting in optimal performance and full leveraging of the NonStop system advantages. SecurFTP/SSL is available for all HPE NonStop platform type systems (S-Series, H/J-Series and L-Series).

If required on the partner platform, the SecurFTP RemoteProxy will SSL/TLS-enable FTP clients or servers which do not support SSL/TLS themselves.



SecurFTP/SSL with the FTP server on the NonStop system against an SSL/TLS-enabled FTP client



SecurFTP/SSL with the FTP server running on the partner system and not supporting SSL/TLS

encrypted with SSL/TLS unencrypted

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