

secure ftp system IP and Protocol Diagram

SFTP im TCP/IP-Protokollstapel:

| | | | | |
|-------------------|-----------------|-----------|------------|------|
| Anwendung | SFTP | | | |
| | SSH | | | |
| <i>Transport</i> | TCP | | | |
| <i>Internet</i> | IP (IPv4, IPv6) | | | |
| <i>Netzzugang</i> | Ethernet | Token Bus | Token Ring | FDDI |

SFTP – SSH File Transfer Protocol – usually runs over TCP port 22

FTP – plain, old file transfer protocol – usually runs over TCP port 21 (+ opens separate ports for data transfer)

FTP/SSL – FTP over TSL/SSL channel.

FTPS – same as FTP/SSL

Secure FTP – either SFTP or FTPS

More info:

FTP

FTP classic

- Plain FTP
- Clear-text password sent over the network
- Typically runs over TCP port 21
- Defined by RFC 959 and 1123
- Implemented in FTP/SSL component

FTP/SSL

FTP over TLS/SSL

- Often called 'FTPS'
- Often called 'Secure FTP'
- Plain FTP over TLS/SSL channel
 - Password is encrypted
 - Transfer is encrypted
- Typically runs over TCP port 21 or 990
- Defined by RFC 959, 1123, 4217 and 2228
- Implemented in FTP/SSL component

SFTP

SSH File Transfer Protocol

- SSH File Transfer Protocol
- Has nothing common with original FTP
- Often called 'Secure FTP'
- Password is encrypted
- Transfer is encrypted
- Typically runs over TCP port 22
 - RFC not yet finished
 - Implemented in SFTP component