

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