Feature	FTP	SFTP
Full form	File Transfer Protocol	SSH File Transfer Protocol
Security	Less secure due to data transfer in clear text	More secure due to data encryption using SSH (Secure Shell) protocol
Authentication	Username and password-based authentication	Supports username and password-based authentication, as well as public key authentication
Port	Uses port 21 for control connection and port 20 for data connection	Uses port 22 for both control and data connections
Data Transfer Mode	Can operate in active or passive mode for data transfer	Operates in the secure channel established by SSH
Firewall Friendly	May have compatibility issues with firewalls and NAT (Network Address Translation)	Typically passes through firewalls and NAT without issues
File Manipulation	Supports basic file operations (upload, download, delete, rename)	Supports not only basic file operations but also file and directory management
Transfer Integrity	Lacks built-in integrity checks for data transfer	Includes built-in integrity checks to ensure data integrity during transfer
Platform Compatibility	Widely supported across different operating systems and platforms	Widely supported across different operating systems and platforms
File Transfer Speed	Data transfer speed may be affected by network conditions	Data transfer speed may be affected by network conditions and encryption overhead

Feature	FTP	SFTP
Protocol	Operates on its own protocol separate from SSH	Operates within the secure SSH protocol

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