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# Bitvise ssh server

Bitvise SSH Server supports secure, encrypted file transfer using the protocols SFTP and SCP over SSH, and FTP over TLS (SSL). This way, no one can see your access credentials, or the files you transfer over the Internet. Client or server? You need our SSH server if you want to set up a computer to receive, upload, or download connections from others. You need our SSH client if you want to initiate connections to a server set up or downloaded by someone for either. Key Server features SFTP server: Secure file transfer using SFTP – compatible with a wide range of clients, both commercial and free. SCP Server: Secure file transfer using SCP – compatible with command line and graphical clients. Works with WinSCP in both SFTP and SCP modes. FTPS Server: Supports security-conscious clients who implement FTP over TLS (SSL). FTPS clients must support explicit TLS, passive mode, and the TLS CV feature for data connections. Supports all desktop and server versions of Windows, 32-bit, and 64-bit, from Windows XP SP3 and Windows Server 2003, to the most recent - Windows 10 and Windows Server 2019. Intuitive: Use easy settings for most simple setups, or Advanced settings for highly granular control. Encryption and security: Provide state-of-the-art encryption and security measures suitable as part of a standards-compliant solution that meets the requirements of PCI, HIPAA, or FIPS 140-2 validation. Two-factor authentication: Connections using SSH, SFTP, and SCP clients may require an additional time-based one-time password. Designed for Windows: Full support for Active Directory domains and Kerberos single sign-on. Supports sign-in with Windows accounts and Windows group-based settings, in addition to virtual accounts created in SSH Server settings. Virtual filesystem: Users connecting to file transfer clients can be restricted to a single directory, or multiple folders in a complex layout. Fast: Allow file transfer clients to get some of the fastest speeds available – with Bitvise SSH Client, in the tens or hundreds of MB/s. SFTP v6 optimizations, including copy file and check file for remote file hashing and checks, is supported. Scripts: All aspects of the SSH Server can be graphically configured, by a command-line interface, or using PowerShell scripting. No license-related limits on the number of concurrent connections or total users. In addition to first-class support for secure file transfer using SFTP and SCP, our software provides a full set of SSH features, including an excellent terminal console and tunnels. These features can be controlled with high granularity, and enabled and disabled. See our SSH Server and SSH Client pages for much more information. Windows version compatibility Bitvise SSH Server supports the Windows weergawes: Windows Server 2019 Windows Server 2016 Windows 10 Windows Server 2012 R2 Windows Server 2012 Windows 8.1 Windows Server 2008 R2 Windows Server 2008 2008 Vista SP1 or SP2 Windows Server 2003 R2 Windows Server 2003 Windows XP SP3 A recent Bitvise SSH Server version should be used on all platforms. The SSH Server is network-facing, security-sensitive software. Using a recent version is the only way to receive updates. Therefore, we do not recommend indefinite use of older versions. Encryption and security features SSH, SFTP and SCP: Key exchange algorithms: Curve25519 ECDH over elliptical curves secp256k1, nistp256, nistp384, nistp521 using SHA-512, SHA-384, or SHA-256 Diffie Hellman with group exchange using SHA-256 or SHA-1 Diffie Hellman with fixed 4096, 3072, 2048, or 1024-bit group parameters using SHA-512, SHA-256, or SHA-1 GSSAPI key exchange using Diffie Hellman and Ker : Ed25519 ECDSA over elliptical curves secp256k1, nistp256, nistp384, nistp521 using SHA-512, SHA-384, or SHA-256 RSA using 4096, 3072, 2048, 1024-bit key sizes with SHA-512, SHA-256, or SHA-1 DSA using SHA-1 (legacy) Encryption algorithms: AES with 256, 128-bit keys in GCM mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode , 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CT , 128-bit keys in CTR mode AES with 256, 192, 128-bit keys in CTR mode AES with 2, 128-bit keys in CBC mode (legacy) 3DES in CTR or CBC mode (legacy) Data integrity protection : AES with 256, 128-bit keys in GCM mode HMAC using SHA-256, SHA-1 Server Authentication: Client verify server identity using server host key fingerprint or public key automatic synchronization of new host keys to client-supported client authentication : Password authentication with Windows accounts - local or Active Directory Password authentication with virtual accounts - configurable password policy Public key authentication Kerberos single sign-on using GSSAPI Two-factor authentication with a time-based one-time password FTP over TLS (SSL) : TLS security: Available TLS versions and cipher suites depend on the installed version of Windows TLS versions 1.0, 1.1 and 1.2 can be enabled individually in Advanced settings ECDHE , RSA and DHE cipher suite families can be enabled individually authentication: Can use self-signed or CA-signed server certificate password authentication with Windows accounts - local or Active Directory Password Authentication with virtual accounts - configure Required password policy Require secure clients : Secure FTPS only is supported - plaintext FTP connections are not assumed FTPS clients should support explicit TLS using the AUTH TLS command FTPS clients must support passive mode and the TLS resumes function for data connections Additional security features: Denial of service protection by thffering incoming connections Token attempt delay for concurrent logins for the same user or from the same IP address Automatic temporary IP address blocking with IP whitelisting Username Blacklisted Configurable Client IP Address , Product Version String Constraints Account-Specific IP Address Constraints IP-Based Access Rules Configurable by Country FIPS 140-2 Validation When FIPS is enabled in Windows , our software uses Windows built-in cryptography, cryptography, by NIST to FIPS 140-2 under certificates #2937, #2606, #2357, and #1892. On Windows XP and 2003, our software uses the Crypto++ 5.3.0 FIPS DLL, originally validated by NIST under certificate #819 (historical). When FIPS mode is not enabled, additional non-FIPS algorithms are supported. Cryptographic implementations and availability Current Bitvise software versions (8.36 and higher) use the following cryptographic implementations for different algorithms, on different versions of Windows: Algorithm Windows XP, Server 2003 Windows Vista to 8.1, Server 2008 to 2012 R2 Windows 10, Server 2016 to 2019 Signature RSA Crypto++ 5.3 Windows CNG Windows CNG Ed25519 n/a DJB DJB ECDSA (NIST curves) Crypto++ 5.3 Windows CNG Windows CNG ECDSA/secp256k1 Crypto++ 5.3 OpenSSL Windows CNG 1024-bit DSA Crypto++ 5.3 Windows CNG Windows CNG Non-standard DSA Crypto++ 5.3 Crypto++ 5.6 Crypto++ 5.6 Key exchange Classic DH Crypto++ 5.3 Windows CNG Windows CNG Curve25519 n/a DJB DJB ECDH (NIST curves) Crypto++ 5.3 Windows CNG Windows CNG ECDH/secp256k1 Crypto++ 5.3 OpenSSL Windows CNG Encryption AES Crypto++ 5.3 Windows CNG Windows CNG 3DES Crypto++ 5.3 Windows CNG Windows CNG Integrity GCM n/a Windows CNG Windows CNG HMAC-SHA2 Crypto++ 5.3 Windows CNG Windows CNG HMAC-SHA1 Crypto++ 5.3 Windows CNG Windows CNG This product includes software developed by the OpenSSL project for use in the OpenSSL Toolkit. ( This product includes cryptographic software written by Eric Young (eay@cryptsoft.com) Bitvise SSH Server is intended to run with minimal configuration after the initial installation. However, when installed in a LAN environment, by default, it will not immediately receive connections from the Internet. To open Bitvise SSH Server on the Internet, other network components must first be configured. The most prominent such components are the firewall on the machine where the SSH server is running, and the router on the LAN to which this machine is attached. Necessary preparation Before opening Bitvise SSH Server on the Internet, perform the following important steps: Follow instructions in Connect for the first time to make sure you can connect to the SSH server from 'localhost'; that is, that you can connect to a client running on the same machine where the SSH server is installed. Follow instructions in securing Bitvise SSH Server to lock your settings to a degree where you are comfortable with them. After you lock your settings, use a customer installed on the same machine to verify that everything behaves as you wish. Only when you are satisfied with the security of your settings, and when your settings work when you connect from 'localhost', open your SSH server on the Internet by opening the Bitvise SSH Server listening port(s) in your firewall and configuring your router to internet connections to machine where the SSH server is running. Automatic configuration that you can configure Bitvise SSH server to the above tasks automatically: Open Bitvise SSH Server Easy settings. In the first tab (Server) the setting opens Windows Firewall to Open Port(s) to any computer. This will automatically open your listening ports in your firewall when the SSH server is running. On the same tab, enable the setting Configure Router automatically (requires UPnP). It will automatically configure your router to send Internet connections to Bitvise SSH server when it runs. If you have other software or hardware firewalls in addition to the Windows Firewall, you must configure those firewalls manually. In order for UPnP to forward NAT to work, your router must support the Universal Plug and Play standard. Most recent routers do. If yours doesn't, you'll have to configure it manually. Manually.

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