

SSH Academy

PuTTY - Secure Download

PuTTY is a popular SSH, Telnet, and SFTP client for Windows. It is typically used for remote access to server computers over a network using the SSH protocol. This is the download page.

For more information on PuTTY, see the [PuTTY page](#). For information on SSH (Secure Shell), see [here](#). For information on Telnet, see [here](#). For information on SFTP secure file transfers, see [here](#).

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Simon Tatham publishes new PuTTY versions [on his personal home page](#).

Installation and setup instructions

- [Installation instructions for Windows](#)
- [Setting up public key authentication using PuTTYgen](#)

Verifying release signatures

The releases are signed with [GPG](#), using the PuTTY release key.

To verify the signatures, you need the gpg tool. On Debian-based Linux, it can be installed with `aptitude install gnupg`. On Red Hat 7, it can be installed with `yum install gnupg2`.

To import the signature key into GPG, use:

```
gpg --import putty-release-2015.asc
```

To check the signature of a file, use:

```
gpg --verify <signaturefile> <datafile>
```

For example:

```
gpg --verify putty-64bit-0.69-installer.msi.gpg putty-64bit-0.69-installer.msi
```

Package contents: putty.exe, puttygen.exe, psftp.exe, pscp.exe, pagent.exe

The installation package includes `putty.exe`, `puttygen.exe`, `psftp.exe`, `pscp.exe`, and `pagent.exe`.

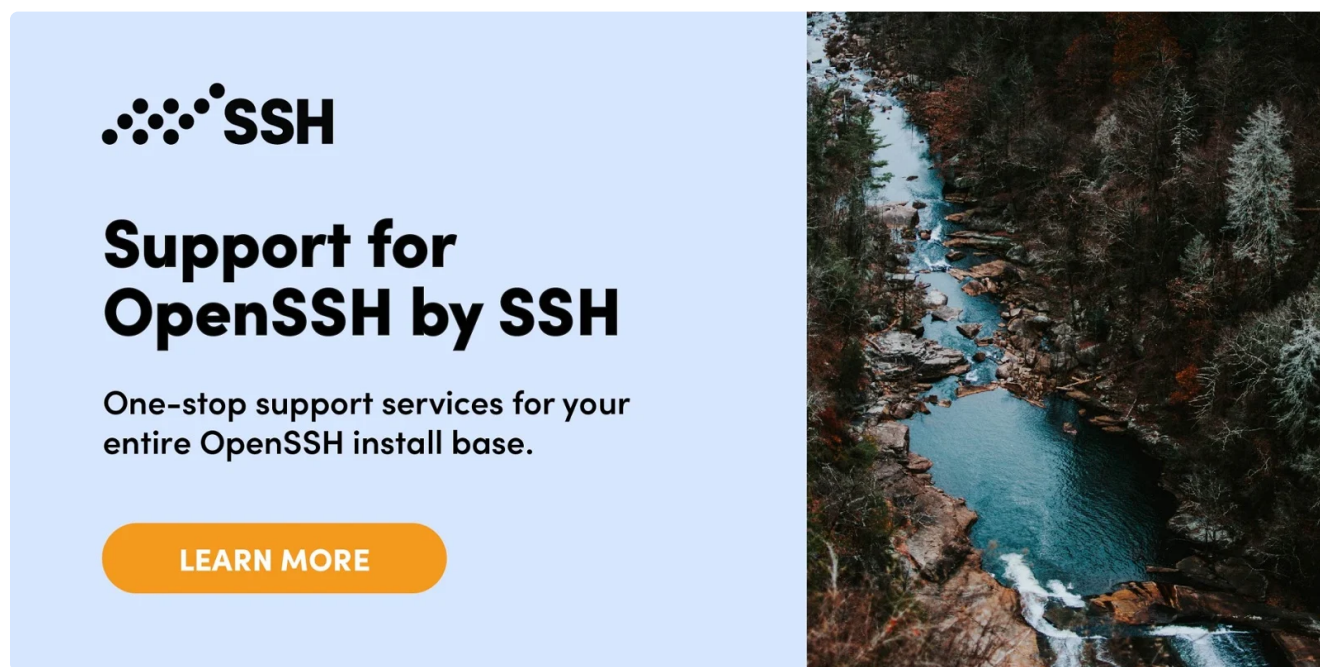
`putty.exe` is the main executable for the terminal client. It can also be used standalone, without the installation package, by simply copying the executable to a USB stick and running it on a new machine. This way, the user can carry the executable with them. However, this should not be assumed to provide great security – malware on the machine where it is used can still compromise the software (cf. [CIA hacking tool bothanspy](#)) and viruses may get installed on the USB stick whenever it is inserted in a new machine.

`puttygen.exe` can be used for generating SSH keys on Windows. See the separate [puttygen page](#) on how to create and set up SSH keys with it.

`psftp.exe` is an [SFTP](#) file transfer client. It only works on the command line, and does not support graphically dragging and dropping files between systems. See [Tectia SSH](#) if you'd like that functionality.

`pscp.exe` is a command line [SCP](#) client.

`pagent.exe` is an SSH agent for PuTTY. Keys are first created with `puttygen.exe` and can then be loaded into `pagent` for automating logins and for implementing single sign-on.

An advertisement for SSH support services. On the left, a light blue box contains the SSH logo (a cluster of dots) and the text "SSH". Below this, the heading "Support for OpenSSH by SSH" is displayed in large, bold, black font. Underneath the heading, it says "One-stop support services for your entire OpenSSH install base." At the bottom of the blue box is an orange rounded rectangle with the text "LEARN MORE" in white. To the right of the blue box is a vertical photograph of a narrow, rocky river with clear, turquoise water flowing through a dense forest of evergreen trees.

Alternatives

For other SSH clients and comparison, see the [SSH clients](#) page. Several more modern alternatives are available.

Server for Windows or other platforms

You don't need to worry about a server if you are going to connect to a school or work server. However, if you are planning to use PuTTY to log into your own systems, then you may need to install and enable a server.

Most Linux and Unix systems come with [OpenSSH](#) preinstalled. On some distributions, you may need to install the server. On Debian-derived systems, the following will install the server:

```
sudo aptitude install openssh-server
```

On Red Hat systems, the following will install the server:

```
sudo yum install openssh-server
```

Depending on the system, you may also need to start the server if you don't want to reboot. The following should work on most systems:

```
sudo service sshd restart
```

For Windows, the [Tectia SSH](#) is a popular choice and comes with commercial support services. It also runs on IBM z/OS mainframes. Unix/Linux are available with support for business-critical applications.

SSH key management needs attention

SSH is often used with [public key authentication](#) to implement automation and single sign-on.

Public key authentication uses a new kind of access credential, the [SSH key](#), for authentication. It is much more secure than traditional password authentication, especially compared to hard-coded passwords in scripts, but the keys need proper management.

Most organizations with more than a hundred servers have large numbers of SSH keys. Usually, these keys have not been properly managed and audited. An [SSH risk assessment](#) is recommended. Organizations should consider deploying [key management software](#) to establish proper provisioning, termination, and monitoring for key-based access.

Risks of unmanaged SSH keys include uncontrolled attack spread across the server infrastructure, including to disaster recovery data centers and backup systems.

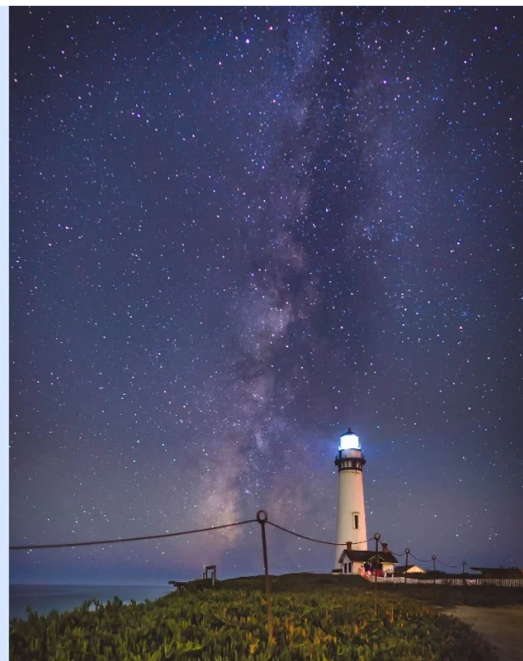
Organizations should also be aware of security risks related to [SSH port forwarding](#). It is a technology that has many good uses, but it can also enable unfettered access across firewalls. Employees and attackers can leave tunnels back into the internal network from the public Internet. This particularly affects organizations using cloud computing services.



**Keys are easy to
create but hard to
manage.**

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Using telnet is not recommended

In addition to SSH, the PuTTY can be used as a [telnet](#) client. Telnet is insecure. Its use is not recommended.

The main problem with telnet is that it transmits all passwords and any transmitted data in the clear. Anyone with access to any computer on the same network can steal user names and passwords that are transmitted. Such [password sniffing](#) attacks were very common on the Internet already in the 1990s.

Telnet sessions can also be [hijacked](#) in the network. Attackers can inject their own commands into telnet sessions. Protection from such attacks was the main reason why [Tatu Ylonen](#) developed SSH as a replacement for telnet in the first place. Use of telnet has not been recommended for 20 years.

SFTP file transfer support

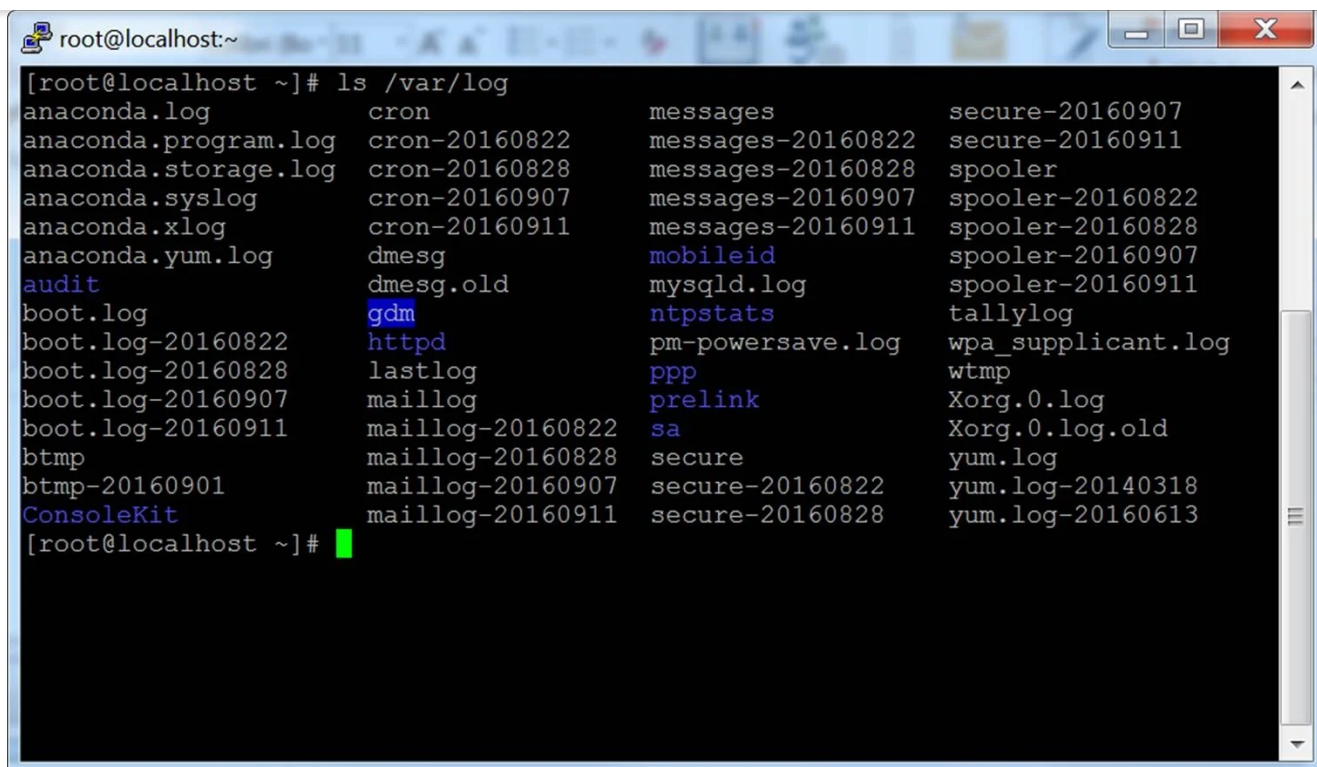
File transfer support is implemented as a separate program, PSFTP . It is available only as a command-line tool. There is no graphical user interface for file transfers.

[SCP file transfers](#) are supported via the PSCP program. This is also command-line only.

Modern implementations, such as [Tectia SSH](#), have integrated file transfers in the terminal client.

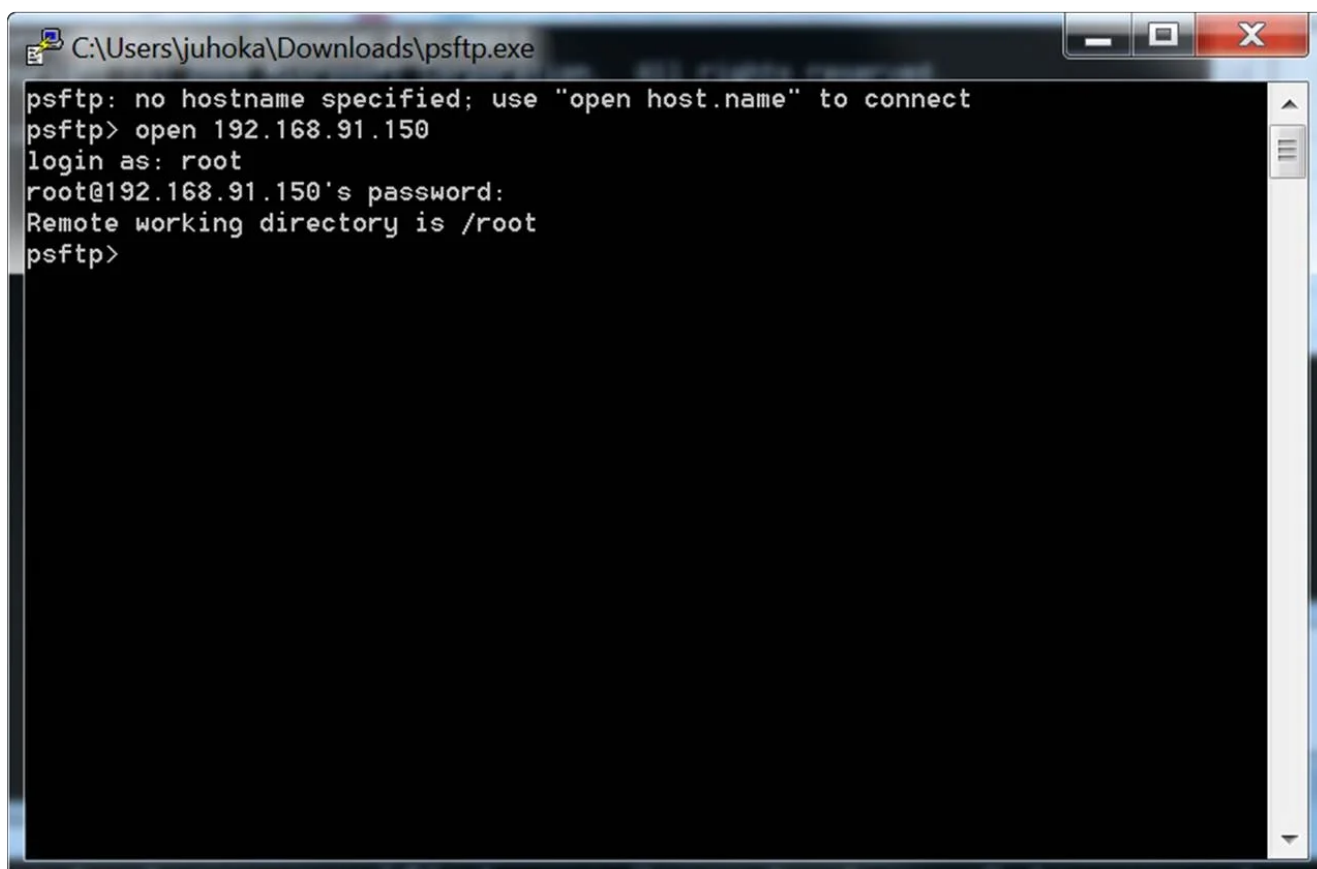
Screenshots

PuTTY terminal window



```
root@localhost:~  
[root@localhost ~]# ls /var/log  
anaconda.log          cron                  messages             secure-20160907  
anaconda.program.log  cron-20160822        messages-20160822    secure-20160911  
anaconda.storage.log  cron-20160828        messages-20160828    spooler  
anaconda.syslog       cron-20160907        messages-20160907    spooler-20160822  
anaconda.xlog         cron-20160911        messages-20160911    spooler-20160828  
anaconda.yum.log      dmesg               mobileid             spooler-20160907  
audit                 dmesg.old           mysqlld.log          spooler-20160911  
boot.log              gdm                 ntpstats             tallylog  
boot.log-20160822     httpd               pm-powersave.log    wpa_supplicant.log  
boot.log-20160828     lastlog             ppp                  wtmp  
boot.log-20160907     maillog             prelink              Xorg.0.log  
boot.log-20160911     maillog-20160822    sa                   Xorg.0.log.old  
btmp                  maillog-20160828    secure               yum.log  
btmp-20160901         maillog-20160907    secure-20160822      yum.log-20140318  
ConsoleKit            maillog-20160911    secure-20160828      yum.log-20160613  
[root@localhost ~]#
```

PSFTP command line Use



```
C:\Users\juhoka\Downloads\psftp.exe  
psftp: no hostname specified; use "open host.name" to connect  
psftp> open 192.168.91.150  
login as: root  
root@192.168.91.150's password:  
Remote working directory is /root  
psftp>
```

We at SSH secure communications between systems, automated applications, and people. We strive to build future-proof and safe communications for businesses and organizations to grow safely in the digital world.

Solutions

Zero Trust Suite

Zero Trust Suite & Entra ID Integration

Quantum-Safe Cryptography (QSC)

Secure Collaboration 2024

Security Risk Mitigation

OT security

MSP Security

Just-in-Time Access

Secure vendor access

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Credentials & Secrets Management

IT Audits & Compliance

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UKM Zero Trust™

Tectia SSH Client/Server™

Tectia™ z/OS

SSH Secure Collaboration 2024

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