



# How to install ssh on Ubuntu Linux using apt-get

last updated May 14, 2019 in [Linux](#), [OpenBSD](#), [Ubuntu Linux](#)

I am a new Ubuntu Linux user. How do I install ssh on Ubuntu Linux? How can I enable SSH server on Ubuntu Linux?



SSH is an acronym for secure shell. It is a client-server technology. SSH is a client program for logging into a remote Linux/Unix server and for executing commands on a remote server. SSHD is the daemon (service) program for ssh. SSHD runs on TCP port 22 on Ubuntu Linux. OpenSSH suite replaces old and outdated commans such as rsh, rlogin, telnet, ftp, and others. In other words, ssh is secure, and all communication is encrypted. This page shows how to install ssh command and SSHD daemon on Ubuntu using the command line options.

## Adblock detected 🤖

My website is made possible by displaying online advertisements to my visitors. I get it! Ads are annoying but they help keep this website running. It is hard to keep the site running and producing new content when so many people block ads. Please consider donating money to the nixCraft via [PayPal](#)/[Bitcoin](#), or become a [supporter using Patreon](#).

## How to install ssh on Ubuntu

The procedure to install ssh command on Ubuntu is as follows:

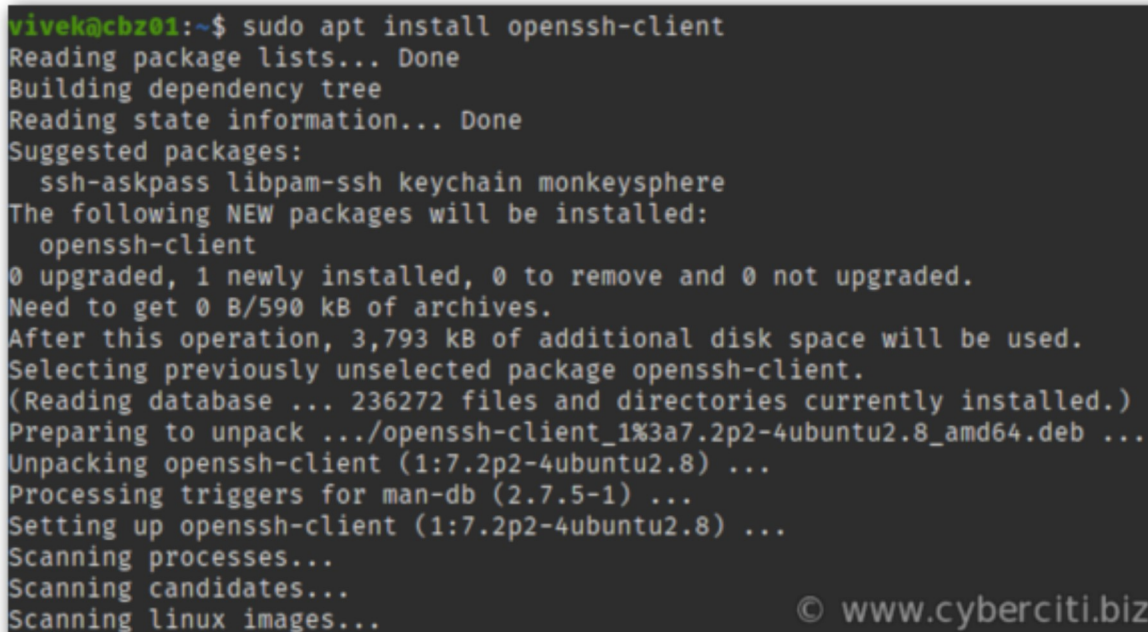
1. Open the terminal application.
2. Install the ssh package on Ubuntu by typing: `sudo apt install openssh-client`
3. Once the installation done, use it by typing: `ssh user@server-ip-here`

Let us see all commands in details.

## Installing ssh in Ubuntu

Just type the following [apt command](#)/[apt-get command](#):

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install openssh-client
```



```
vivek@cbz01:~$ sudo apt install openssh-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  ssh-askpass libpam-ssh keychain monkeysphere
The following NEW packages will be installed:
  openssh-client
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/590 kB of archives.
After this operation, 3,793 kB of additional disk space will be used.
Selecting previously unselected package openssh-client.
(Reading database ... 236272 files and directories currently installed.)
Preparing to unpack .../openssh-client_1%3a7.2p2-4ubuntu2.8_amd64.deb ...
Unpacking openssh-client (1:7.2p2-4ubuntu2.8) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up openssh-client (1:7.2p2-4ubuntu2.8) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
© www.cyberciti.biz
```

*Installing ssh client on Ubuntu using the apt-get*

## How do I use ssh on Ubuntu?

Say you want to login to a remote server named nas04 having an IP address 192.168.2.13, run the following ssh command:

```
ssh user@server
ssh user@server-ip
ssh vivek@192.168.2.13
```

If you just want to run commands (such as who or uptime) on remote server, try:

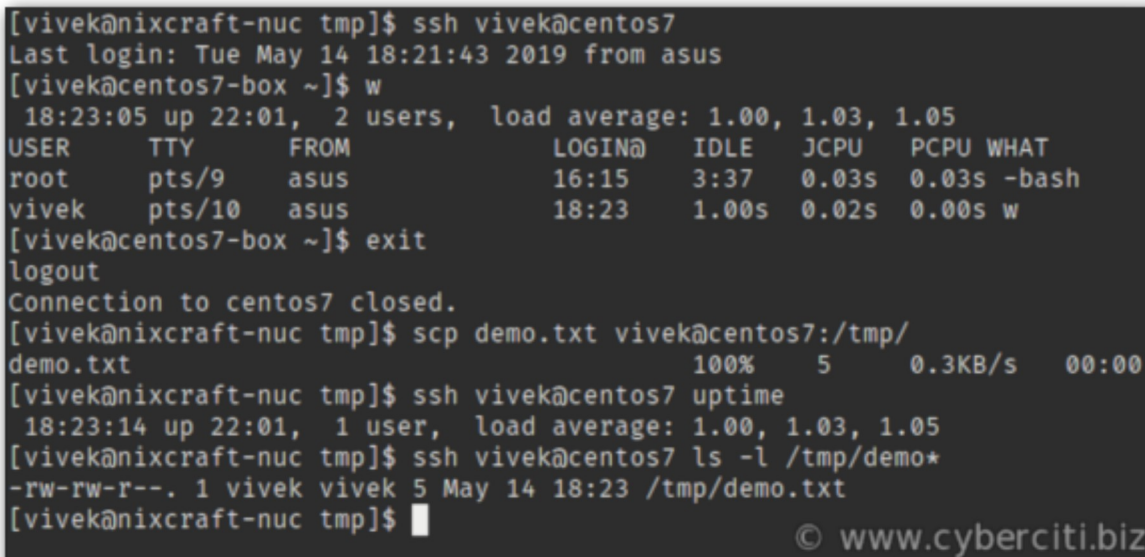
```
ssh vivek@nas04 who
ssh vivek@nas04 uptime
```

For instance, I can login to internet connected server1.cyberciti.biz as follows:

```
ssh vivek@server1.cyberciti.biz
```

Want to copy files between hosts on a network? Try the scp command:

```
scp file user@server:/path/to/dest/  
scp demo.txt vivek@192.168.2.13:/tmp/
```



```
[vivek@nixcraft-nuc tmp]$ ssh vivek@centos7  
Last login: Tue May 14 18:21:43 2019 from asus  
[vivek@centos7-box ~]$ w  
 18:23:05 up 22:01,  2 users,  load average: 1.00, 1.03, 1.05  
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT  
root      pts/9    asus             16:15    3:37   0.03s  0.03s -bash  
vivek     pts/10   asus             18:23    1.00s  0.02s  0.00s w  
[vivek@centos7-box ~]$ exit  
logout  
Connection to centos7 closed.  
[vivek@nixcraft-nuc tmp]$ scp demo.txt vivek@centos7:/tmp/  
demo.txt                                100%  5    0.3KB/s   00:00  
[vivek@nixcraft-nuc tmp]$ ssh vivek@centos7 uptime  
 18:23:14 up 22:01,  1 user,  load average: 1.00, 1.03, 1.05  
[vivek@nixcraft-nuc tmp]$ ssh vivek@centos7 ls -l /tmp/demo*  
-rw-rw-r--. 1 vivek vivek 5 May 14 18:23 /tmp/demo.txt  
[vivek@nixcraft-nuc tmp]$
```

© www.cyberciti.biz

*ssh and scp command in action*

Most importantly, ssh keeps your communication secure over insecure links such as the Internets. Hence, you must always use ssh, sftp, and scp commands.

## How to Enable SSH on Ubuntu

Now you know how to install ssh client. To accept connection for ssh session, you need to install openssh-server package on Ubuntu. Hence, type the following commands.

1. Open your terminal application
2. Install the openssh-server package on Ubuntu, run: `sudo apt install openssh-server`
3. Enable ssh server on Ubuntu, run: `sudo systemctl enable ssh`

4. By default, firewall will block ssh access. Therefore, you must [enable ufw](#) and open ssh port
5. Open ssh tcp port 22 using ufw firewall, run: `sudo ufw allow ssh`
6. Congratulations. Now you have SSH server installed and running on your Ubuntu server.  
You can connect to it using ssh client.

## How to start/stop/restart SSH service on Ubuntu

The syntax is:

```
sudo systemctl start ssh
sudo systemctl stop ssh
sudo systemctl restart ssh
```

To view status, run:

```
sudo systemctl status ssh
```

```
vivek@cbz04:~$ sudo systemctl status ssh.service
[sudo] password for vivek:
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: e
   Active: active (running) since Sun 2019-04-28 02:22:56 UTC; 2 weeks 2 days
   Main PID: 1030 (sshd)
     Tasks: 7 (limit: 4915)
    CGroup: /system.slice/ssh.service
            └─ 1030 /usr/sbin/sshd -D
               └─ 17731 sshd: vivek [priv]
                  └─ 17734 sshd: vivek@pts/1
                     └─ 17735 -bash
                        └─ 17769 sudo systemctl status ssh.service
                           └─ 17770 systemctl status ssh.service
                              └─ 17771 pager

May 14 13:09:03 cbz04 sshd[17731]: rexec line 7: Deprecated option UsePrivile
May 14 13:09:03 cbz04 sshd[17731]: rexec line 8: Deprecated option KeyRegener
May 14 13:09:03 cbz04 sshd[17731]: rexec line 9: Deprecated option ServerKeyB
May 14 13:09:03 cbz04 sshd[17731]: rexec line 15: Deprecated option RSAAuthen
May 14 13:09:03 cbz04 sshd[17731]: rexec line 19: Deprecated option RhostsRSA
May 14 13:09:05 cbz04 sshd[17731]: reprocess config line 15: Deprecated optio
May 14 13:09:05 cbz04 sshd[17731]: reprocess config line 19: Deprecated optio
May 14 13:09:05 cbz04 sshd[17731]: Accepted publickey for vivek from 139.59.1
May 14 13:10:03 cbz04 sudo[17769]:      vivek : TTY=pts/1 ; PWD=/home/vivek ; U
May 14 13:10:03 cbz04 sudo[17769]: pam_unix(sudo:session): session opened for
vivek@cbz04:~$
```

## How do I disable and remove SSH server on Ubuntu?

If you do not want ssh server for some reasons, disable it. For example, the Linux desktop may not need an ssh server. Type the following commands:

```
sudo systemctl stop ssh
sudo systemctl disable ssh
sudo apt-get remove openssh-server
```

## Conclusion

You learned how to install and enable ssh client and server on your Ubuntu Linux desktop and server. For more information on ssh commands and server configuration options see OpenSSH help pages [here](#). In addition, I recommend that you read the following pages too:

- [Set up a SSH key-based authentication](#)
- [OpenSSH Config File Examples](#)
- [Secure SSH server](#)

SHARE ON

Facebook

Twitter

### Posted by: Vivek Gite

The author is the creator of nixCraft and a seasoned sysadmin, DevOps engineer, and a trainer for the Linux operating system/Unix shell scripting. Get the **latest tutorials on SysAdmin, Linux/Unix and open source topics** via [RSS/XML feed](#) or [weekly email newsletter](#).

### Historical Comment Archive

 1 comment

**Vivek Gite** May 14, 2019 at 1:32 pm

If you have any question regarding SSH client and server on Ubuntu, [please leave a comment on our forum](#) and I would try to help.

**Still, have a question? Get help on our forum!**

Tagged as: [openssh](#), [Easy](#)



@2000-2019 nixCraft. All rights reserved.

[PRIVACY](#)

[TERM OF SERVICE](#)

[CONTACT/EMAIL](#)

[DONATIONS](#)

[SEARCH](#)