

```
(anki@kali)-[~]
└─$ sudo apt install openssh-server -y
Upgrading:
  openssh-client  openssh-client-gssapi  openssh-server  openssh-sftp-server
Summary:
  Upgrading: 4, Installing: 0, Removing: 0, Not Upgrading: 1164
  Download size: 65.3 kB / 1,796 kB
  Space needed: 4,096 B / 21.5 GB available

Get:1 http://kali.download/kali kali-rolling/main amd64 openssh-sftp-server amd64 1:10.0p1-8 [65.3 kB]
Fetched 65.3 kB in 1s (67.4 kB/s)
Preconfiguring packages ...
(Reading database ... 411960 files and directories currently installed.)
Preparing to unpack .../openssh-sftp-server_1%3a10.0p1-8_amd64.deb ...
Unpacking openssh-sftp-server (1:10.0p1-8) over (1:10.0p1-5) ...
Preparing to unpack .../openssh-server_1%3a10.0p1-8_amd64.deb ...
Unpacking openssh-server (1:10.0p1-8) over (1:10.0p1-5) ...
Preparing to unpack .../openssh-client_1%3a10.0p1-8_amd64.deb ...
Unpacking openssh-client (1:10.0p1-8) over (1:10.0p1-5) ...
Preparing to unpack .../openssh-client-gssapi_1%3a10.0p1-8_all.deb ...
Unpacking openssh-client-gssapi (1:10.0p1-8) over (1:10.0p1-5) ...
Setting up openssh-client (1:10.0p1-8) ...
Setting up openssh-client-gssapi (1:10.0p1-8) ...
Setting up openssh-sftp-server (1:10.0p1-8) ...
Setting up openssh-server (1:10.0p1-8) ...
ssh.service is a disabled or a static unit not running, not starting it.
ssh.socket is a disabled or a static unit not running, not starting it.
sshd-keygen.service is a disabled or a static unit not running, not starting it.
Processing triggers for kali-menu (2025.2.7) ...
Processing triggers for man-db (2.13.1-1) ...

(anki@kali)-[~]
└─$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink '/etc/systemd/system/ssh.service' → '/usr/lib/systemd/system/ssh.service'.
Created symlink '/etc/systemd/system/multi-user.target.wants/ssh.service' → '/usr/lib/systemd/system/ssh.service'.

(anki@kali)-[~]
└─$ sudo systemctl start ssh

(anki@kali)-[~]
└─$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: disabled)
   Active: active (running) since Mon 2025-10-06 14:05:08 IST; 17s ago
 Invocation: c329ca4d1a7b4c48bbd6e6b9e2db9e94
    Docs: man:sshd(8)
          man:sshd_config(5)
   Process: 8441 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
  Main PID: 8451 (sshd)
    Tasks: 1 (limit: 4546)
   Memory: 1.8M (peak: 2M)
    CPU: 63ms
   CGroup: /system.slice/ssh.service
           └─8451 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Oct 06 14:05:08 kali systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Oct 06 14:05:08 kali sshd[8451]: Server listening on 0.0.0.0 port 22.
Oct 06 14:05:08 kali sshd[8451]: Server listening on :: port 22.
```



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(anki@kali)-[~]
└─$ ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/home/anki/.ssh/id_rsa):
Enter passphrase for "/home/anki/.ssh/id_rsa" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/anki/.ssh/id_rsa
Your public key has been saved in /home/anki/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:4+GiTqIogSF1Y0zsYVDaUKwRcUcegQp7UAUSeCFAJqs anki@kali
The key's randomart image is:
+--[RSA 2048]--+
|*O0#*o=.
|*o=@o
|*..o.o.
|=+
|Eo      S
|o      oo
|..  . . o
|o. o . .
|+  .o
+--[SHA256]--+

(anki@kali)-[~]
└─$ ssh anki@127.0.0.1
anki@127.0.0.1's password:
Linux kali 6.12.25-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.12.25-1kali1 (2025-04-30) x86_64

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Oct 6 14:09:27 2025 from 127.0.0.1
(anki@kali)-[~]
└─$ ssh anki@127.0.0.1
anki@127.0.0.1's password:
Linux kali 6.12.25-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.12.25-1kali1 (2025-04-30) x86_64

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Oct 6 14:16:43 2025 from 127.0.0.1
(anki@kali)-[~]
└─$ ssh-copy-id anki@127.0.0.1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/anki/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
anki@127.0.0.1's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'anki@127.0.0.1'"
and check to make sure that only the key(s) you wanted were added.
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