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(kali@kali)-[~]
$ service ssh status
o ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: disabled)
   Active: inactive (dead) since Mon 2025-10-06 12:14:50 EDT; 1h 10min ago
   Duration: 8min 13.191s
   Invocation: 34e06b3d5e0948fe8ee516af6c8e4bea
   Docs: man:sshd(8)
        man:sshd_config(5)
   Process: 956 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Process: 1012 ExecStart=/usr/sbin/sshd -D $SSHD_OPTS (code=exited, status=0/SUCCESS)
   Main PID: 1012 (code=exited, status=0/SUCCESS)
   Mem peak: 28.4M
   CPU: 303ms

Oct 06 12:06:36 kali sshd[1012]: Server listening on :: port 22.
Oct 06 12:06:36 kali systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Oct 06 12:10:07 kali sshd-session[3099]: Accepted password for kali from 127.0.0.1 port 51746 ssh2
Oct 06 12:10:07 kali sshd-session[3099]: pam_unix(sshd:session): session opened for user kali(uid=1000) by kali(uid=0)
Oct 06 12:12:42 kali sshd-session[4555]: Accepted password for kali from 127.0.0.1 port 47100 ssh2
Oct 06 12:12:42 kali sshd-session[4555]: pam_unix(sshd:session): session opened for user kali(uid=1000) by kali(uid=0)
Oct 06 12:14:49 kali sshd[1012]: Received signal 15; terminating.
Oct 06 12:14:49 kali systemd[1]: Stopping ssh.service - OpenBSD Secure Shell server...
Oct 06 12:14:50 kali systemd[1]: ssh.service: Deactivated successfully.
Oct 06 12:14:50 kali systemd[1]: Stopped ssh.service - OpenBSD Secure Shell server.

(kali@kali)-[~]
$ service ssh start
== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ==
Authentication is required to start 'ssh.service'.
Authenticating as: kali
Password:
== AUTHENTICATION COMPLETE ==

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(kali@kali)-[~]
$ ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/home/kali/.ssh/id_rsa): RSA
Enter passphrase for "RSA" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in RSA
Your public key has been saved in RSA.pub
The key fingerprint is:
SHA256:OgUHN9MH9Eh6YuEfpyMwKH+FNak4DX08NQScnGjPGy4 kali@kali
The key's randomart image is:
+--[RSA 2048]--+
|o.o ..+ +.+  |
|o+ + + B B +  |
|. B = B @ = +  |
| % o O = =    |
| o * . S +    |
| E o . o . .   |
| . o          |
|              |
+--[SHA256]--+

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(kali@kali)-[~]
$ ssh 127.0.0.1
kali@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 12:12:42 2025 from 127.0.0.1

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(kali@kali)-[~]
$ ssh kali@127.0.0.1
Enter passphrase for key '/home/kali/.ssh/id_rsa':
Enter passphrase for key '/home/kali/.ssh/id_rsa':
kali@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

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permitted by applicable law.
Last login: Mon Oct 6 13:26:20 2025 from 127.0.0.1

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(kali@kali)-[~]
$ ssh-copy-id kali@127.0.0.1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/kali/.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
kali@127.0.0.1's password:

Number of key(s) added: 1

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

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