```
┌──(kali㉿kali)-[~]
└─$ systemctl start apache2

┌──(kali㉿kali)-[~]
└─$ systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; preset: disabled)
     Active: active (running) since Tue 2025-09-30 01:07:22 EDT; 13s ago
 Invocation: 7baf667a0bfc4ab8a1325c43884ea4db
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 19831 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 19847 (apache2)
      Tasks: 6 (limit: 2197)
     Memory: 21M (peak: 21.7M)
        CPU: 336ms
     CGroup: /system.slice/apache2.service
             ├─19847 /usr/sbin/apache2 -k start
             ├─19850 /usr/sbin/apache2 -k start
             ├─19851 /usr/sbin/apache2 -k start
             ├─19852 /usr/sbin/apache2 -k start
             ├─19853 /usr/sbin/apache2 -k start
             └─19854 /usr/sbin/apache2 -k start

Sep 30 01:07:21 kali systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 30 01:07:22 kali apachectl[19846]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
Sep 30 01:07:22 kali systemd[1]: Started apache2.service - The Apache HTTP Server.
```

```
┌──(kali㉿kali)-[~]
└─$ systemctl start ssh

┌──(kali㉿kali)-[~]
└─$ service ssh status
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: disabled)
     Active: active (running) since Tue 2025-09-30 01:23:32 EDT; 7s ago
 Invocation: 6d71ef332ddb4e3cbc5c41b8ae1fa5a7
       Docs: man:sshd(8)
             man:sshd_config(5)
    Process: 27849 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 27852 (sshd)
      Tasks: 1 (limit: 2197)
     Memory: 2.1M (peak: 2.8M)
        CPU: 113ms
     CGroup: /system.slice/ssh.service
             └─27852 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Sep 30 01:23:32 kali systemd[1]: Starting ssh.service - OpenBSD Secure Shell server ...
Sep 30 01:23:32 kali sshd[27852]: Server listening on 0.0.0.0 port 22.
Sep 30 01:23:32 kali sshd[27852]: Server listening on :: port 22.
Sep 30 01:23:32 kali systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
```

```
┌──(kali㉿kali)-[~]
└─$ ssh 127.0.0.1
The authenticity of host '127.0.0.1 (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:rwmFOcw0ImErpguMMcoGM93j92fQsHZQJ+VzbbtLssQ.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '127.0.0.1' (ED25519) to the list of known hosts.
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.
You have new mail.
┌──(kali㉿kali)-[~]
└─$
```

```
┌──(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):
Enter passphrase for "/home/kali/.ssh/id_rsa" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/kali/.ssh/id_rsa
Your public key has been saved in /home/kali/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:8bPHShz5PoFc7oIm0ROvzkwrgjj8wwLN/g1trq/tMBM kali@kali
The key's randomart image is:
+---[RSA 2048]----+
|                 |
|                 |
|        .        |
|       .o ..     |
| o  E  .S+-+      |
|.. o. o. o.+*o    |
|oo..=  o ..++.+.  |
|oooo.Xo++o.+o     |
| .oo=**=-  ....   |
+----[SHA256]-----+
```

```
┌──(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.
```

```
┌──(kali㉿kali)-[~]
└─$ ssh kali@127.0.0.1
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;
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individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
You have new mail.
Last login: Tue Sep 30 01:56:31 2025 from 127.0.0.1
┌──(kali㉿kali)-[~]
└─$
```