

```
starwebs@starwebs-VirtualBox:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-10-26 18:09:12 EST; 8min ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Main PID: 31316 (sshd)
     Tasks: 1 (limit: 2206)
    Memory: 1.0M
    CGroup: /system.slice/ssh.service
            └─31316 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
```

```
oct 26 18:09:12 starwebs-VirtualBox systemd[1]: Starting OpenBSD Secure Shell server...
oct 26 18:09:12 starwebs-VirtualBox sshd[31316]: Server listening on 0.0.0.0 port 22.
oct 26 18:09:12 starwebs-VirtualBox sshd[31316]: Server listening on :: port 22.
oct 26 18:09:12 starwebs-VirtualBox systemd[1]: Started OpenBSD Secure Shell server.
```

```
starwebs@starwebs-VirtualBox:~$
```

starwebs@starwebs-VirtualBox:~\$ sudo systemctl status apache2

Configurando apache2 (2.4.41-4ubuntu3.14) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Procesando disparadores para ufw (0.36-4ubuntu1.1) ...
Procesando disparadores para systemd (245.4-4ubuntu3.22) ...
Procesando disparadores para man-db (2.9.1-1) ...
Procesando disparadores para libc-bin (2.31-0ubuntu9.12) ...
starwebs@starwebs-VirtualBox:~\$ sudo systemctl start apache2
starwebs@starwebs-VirtualBox:~\$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
starwebs@starwebs-VirtualBox:~\$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
 Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
 Active: active (running) since Thu 2023-10-26 18:29:04 EST; 1min 38s ago
 Docs: https://httpd.apache.org/docs/2.4/
 Main PID: 33236 (apache2)
 Tasks: 55 (limit: 2206)
 Memory: 5.0M
 CGroup: /system.slice/apache2.service
 └─33236 /usr/sbin/apache2 -k start
 └─33237 /usr/sbin/apache2 -k start
 └─33238 /usr/sbin/apache2 -k start

Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented** in [usr/share/doc/apache2/README.Debian.gz](#). Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the [manual](#) if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
├─ apache2.conf  
├─ ports.conf  
├─ mods-enabled/  
│   └─ *.load  
├─ *.conf  
├─ conf-enabled/  
│   └─ *.conf  
└─ sites-enabled/  
    └─ *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.
- The binary is called `apache2`. Due to the use of environment variables, in the default configuration, `apache2` needs to be started/stopped with `/etc/init.d/apache2` or `apache2ctl`. Calling `/usr/bin/apache2` directly will **not work** with the default configuration.

Document Roots

```
starwebs@starwebs-VirtualBox:~$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-10-26 18:40:12 EST; 59s ago
     Main PID: 37175 (mysqld)
    Status: "Server is operational"
     Tasks: 38 (limit: 2206)
    Memory: 360.8M
    CGroup: /system.slice/mysql.service
            └─37175 /usr/sbin/mysqld
```

```
oct 26 18:40:11 starwebs-VirtualBox systemd[1]: Starting MySQL Community Server...
oct 26 18:40:12 starwebs-VirtualBox systemd[1]: Started MySQL Community Server.
```

```

starwebs@starwebs-VirtualBox:~$ sudo systemctl status squid
● squid.service - Squid Web Proxy Server
   Loaded: loaded (/lib/systemd/system/squid.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-10-26 18:44:50 EST; 52s ago
     Docs: man:squid(8)
    Main PID: 39413 (squid)
      Tasks: 4 (limit: 2206)
     Memory: 15.1M
    CGroup: /system.slice/squid.service
            └─39413 /usr/sbin/squid -sYC
               └─39415 (squid-1) --kid squid-1 -sYC
                  └─39417 (logfile-daemon) /var/log/squid/access.log
                     └─39418 (pinger)

oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Max Swap size: 0 KB
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Using Least Load store dir selection
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Set Current Directory to /var/spool/squid
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Finished loading MIME types and icons.
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: HTCP Disabled.
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Pinger socket opened on FD 14
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Squid plugin modules loaded: 0
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Adaptation support is off.
oct 26 18:44:50 starwebs-VirtualBox squid[39415]: Accepting HTTP Socket connections at local=[::]:3128 remote=[::] FD
oct 26 18:44:51 starwebs-VirtualBox squid[39415]: storeLateRelease: released 0 objects
lines 1-23/23 (END)

```

```

starwebs@starwebs-VirtualBox:~$ sudo systemctl status bind9
● named.service - BIND Domain Name Server
   Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-10-26 18:49:51 EST; 1min 33s ago
     Docs: man:named(8)
    Main PID: 41852 (named)
      Tasks: 8 (limit: 2206)
     Memory: 19.1M
    CGroup: /system.slice/named.service
            └─41852 /usr/sbin/named -f -u bind

oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './DNSKEY/IN': 2001:dc3::35#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './NS/IN': 2001:dc3::35#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './DNSKEY/IN': 2001:503:ba3e::2:30#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './NS/IN': 2001:503:ba3e::2:30#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './DNSKEY/IN': 2001:500:12::d0d#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './NS/IN': 2001:500:12::d0d#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './DNSKEY/IN': 2001:7fe::53#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: network unreachable resolving './NS/IN': 2001:7fe::53#53
oct 26 18:49:52 starwebs-VirtualBox named[41852]: managed-keys-zone: Initializing automatic trust anchor management f
oct 26 18:49:53 starwebs-VirtualBox named[41852]: resolver priming query complete
lines 1-20/20 (END)

```