

### Apache httpd 2.2 default layout (apache.org source package):

```
ServerRoot      :: /usr/local/apache2
DocumentRoot    :: /usr/local/apache2/htdocs
Apache Config File  :: /usr/local/apache2/conf/httpd.conf
Other Config Files  :: /usr/local/apache2/conf/extra/
SSL Config File    :: /usr/local/apache2/conf/extra/httpd-ssl.conf
ErrorLog         :: /usr/local/apache2/logs/error_log
AccessLog        :: /usr/local/apache2/logs/access_log
cgi-bin          :: /usr/local/apache2/cgi-bin (enabled by default, but the bundled scripts are 644)
binaries (apachectl) :: /usr/local/apache2/bin
start/stop       :: /usr/local/apache2/bin/apachectl (start|restart|graceful|graceful-stop|stop|configtest)
```

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ErrorLog         :: /usr/local/apache2/logs/error_log
AccessLog        :: /usr/local/apache2/logs/access_log
cgi-bin          :: /usr/local/apache2/cgi-bin (enabled by default, but the bundled scripts are 644)
binaries (apachectl) :: /usr/local/apache2/bin
start/stop       :: /usr/local/apache2/bin/apachectl (start|stop|graceful|configtest)
```

### Debian, Ubuntu (Apache httpd 2.x):

```
ServerRoot      :: /etc/apache2
DocumentRoot    :: /var/www
Apache Config Files  :: /etc/apache2/apache2.conf
                  :: /etc/apache2/ports.conf
Default VHost Config :: /etc/apache2/sites-available/default, /etc/apache2/sites-enabled/000-default
Module Locations    :: /etc/apache2/mods-available, /etc/apache2/mods-enabled
ErrorLog           :: /var/log/apache2/error.log
AccessLog          :: /var/log/apache2/access.log
cgi-bin            :: /usr/lib/cgi-bin
binaries (apachectl) :: /usr/sbin
start/stop         :: /etc/init.d/apache2 (start|stop|restart|reload|force-reload|start-htcacheclean|stop-htcacheclean)
```

The Debian/Ubuntu layout is fully documented in /usr/share/doc/apache2/README.Debian

Debian/Ubuntu use symlinks to enable vhosts and modules. Configuration files are created in their respective sites-available and mods-available directories. To activate vhosts and modules, symlinks are created in the respective sites-enabled and mods-enabled directories to the config files in either sites-available and mods-available. Debian provides scripts to handle this process called 'a2ensite' and 'a2enmod' which enables vhosts and modules.

The default DocumentRoot is specified in the default vhost config file, /etc/apache2/sites-available/default

### Fedora Core, CentOS, RHEL:

```
ServerRoot      :: /etc/httpd
Primary Config File  :: /etc/httpd/conf/httpd.conf
Other Config Files  :: /etc/httpd/conf.d
Module Locations    :: /usr/lib/httpd/modules
DocumentRoot       :: /var/www/html
ErrorLog           :: /var/log/httpd/error_log
AccessLog          :: /var/log/httpd/access_log
cgi-bin            :: /var/www/cgi-bin (empty and disabled by default)
binary             :: /usr/sbin/httpd
runtime directory   :: /etc/httpd/run
start/stop         :: /sbin/service httpd {start|stop|restart|condrestart|reload|status|fullstatus|graceful|help|configtest}
```

Notes:

There is an extra config file in `/etc/sysconfig/httpd` which can be used to change to the worker mpm `/usr/sbin/httpd.worker`.

Extra config files named `*.conf` are loaded from `/etc/httpd/conf.d`. This directory is used by packages like `mod_python` for drop-in configs

If you're having issues with authorization and your permissions are correct, you might have problems with SELinux permissions. Take a look at `httpd_selinux(8)` and related documentation. Particularly `sealert(8)` can be used for analysis and suggested solutions.

### **RedHat 9.0 and older:**

```
ServerRoot      :: /etc/httpd
Primary Config File  :: /etc/httpd/conf/httpd.conf
DocumentRoot    :: /var/www/html
ErrorLog        :: /var/log/httpd/error_log
AccessLog       :: /var/log/httpd/access_log
cgi-bin         :: /var/www/cgi-bin (empty and disabled by default)
binary          :: /usr/sbin/httpd
start/stop      :: /sbin/service httpd {start|stop|restart|condrestart|reload|status|fullstatus|graceful|help|configtest}
```

### **Mandriva (Apache httpd 2.2):**

```
ServerRoot      :: /etc/httpd
Primary Config File  :: /etc/httpd/conf/httpd.conf
DocumentRoot    :: /var/www/html
ErrorLog        :: /var/log/httpd/error_log
AccessLog       :: /var/log/httpd/access_log
cgi-bin         :: /var/www/cgi-bin
binary          :: /usr/sbin/httpd
start/stop      :: /sbin/service httpd
{start|stop|restart|reload|graceful|condrestart|status|extendedstatus|configtest|
configtest_vhosts|semcleanrestart|debug|show_defines}
```

### **Mac OS X (Leopard, Apache httpd 2.2):**

```
ServerRoot      :: /usr
Primary Config File  :: /etc/apache2/httpd.conf
DocumentRoot    :: /Library/WebServer/Documents
ErrorLog        :: /var/log/apache2/error_log
AccessLog       :: /var/log/apache2/access_log
cgi-bin         :: /Library/WebServer/CGI-Executables (empty by default)
binary          :: /usr/sbin/httpd
start/stop      :: /usr/sbin/apachectl (start|stop|restart|fullstatus|status|graceful|graceful-stop|configtest|help)
```

Notes:

`apachectl graceful` is equivalent to `apachectl restart` and doesn't keep running connections alive. Similarly, `graceful-stop` is not graceful.

The `/usr/sbin/envvars` script is ineffective for setting environment variables. See <http://lists.apple.com/archives/web-dev/2008/Apr/msg00059.html>

### **NetBSD Apache httpd 2.0 and 1.3 from pkgsrc (layout is identical):**

```
ServerRoot      :: /usr/pkg
Config File     :: /usr/pkg/etc/httpd/httpd.conf
```

```
DocumentRoot      :: /usr/pkg/share/httpd/htdocs
ErrorLog           :: /var/log/httpd/error_log
AccessLog          :: /var/log/httpd/access_log
cgi-bin            :: /usr/pkg/libexec/cgi-bin
binaries (apachectl) :: /usr/pkg/sbin
start/stop         :: /etc/rc.d/apache [fast|force|one](start stop restart rcvar reload status poll)
/etc/rc.conf variables :: apache=YES, apache_start="start" (or "startssl")
```

Notes:

The "apache" script must be copied from the installation default /usr/pkg/share/examples/rc.d to /etc/rc.d (for automatic rc.conf usage) or /usr/pkg/etc/rc.d (for advanced usage).

### **FreeBSD 6.1 (Apache httpd 2.2):**

```
ServerRoot        :: /usr/local
Config File        :: /usr/local/etc/apache22/httpd.conf
DocumentRoot       :: /usr/local/www/apache22/data
ErrorLog           :: /var/log/httpd-error.log
AccessLog          :: /var/log/httpd-access.log
cgi-bin            :: /usr/local/www/apache22/cgi-bin
binaries (apachectl) :: /usr/local/sbin
start/stop         :: /usr/local/etc/rc.d/apache22.sh (start|restart|stop|reload|graceful|gracefulstop|configtest)
/etc/rc.conf variables :: apache22_enable="YES"
```

Notes:

Other variables to insert in rc.conf are listed in the comments at the top of the start/stop script

To start 2.2 on freebsd 6.1 the accf\_http kernel module must be loaded. To do this once, run `kldload accf_http`. To do so at boot time, add `accf_http_load="YES"` to `/boot/loader.conf`

Apache 2.2.6 in the FreeBSD 6.2 release will start regardless of the accf\_http kernel module being loaded, and by default doesn't use it. To reverse this, add `apache22_http_accept_enable="YES"` to `/etc/rc.conf` (which will cause the kernel module to be loaded and Apache to use it).

### **FreeBSD 6.1 (Apache httpd 2.0):**

```
ServerRoot        :: /usr/local
Config File        :: /usr/local/etc/apache2/httpd.conf
DocumentRoot       :: /usr/local/www/data
ErrorLog           :: /var/log/httpd-error.log
AccessLog          :: /var/log/httpd-access.log
cgi-bin            :: /usr/local/www/cgi-bin
binaries (apachectl) :: /usr/local/sbin
start/stop         :: /usr/local/etc/rc.d/apache2.sh [fast|force|one](start|restart|stop|reload|configtest|rcvar)
/etc/rc.conf variables :: apache2_enable="YES"
```

Notes:

Other variables to insert in rc.conf are listed in the comments at the top of the start/stop script

### **OpenBSD 5.0 (Apache httpd 1.3 (Hardened version for OpenBSD)):**

```
ServerRoot        :: /var/www
Config File        :: /var/www/conf/httpd.conf
DocumentRoot       :: /var/www/htdocs
ErrorLog           :: /var/www/logs/error_log
```

```

AccessLog      :: /var/www/logs/access_log
cgi-bin        :: /var/www/cgi-bin
binaries (apachectl) :: /usr/sbin/apachectl
start/stop     :: /usr/sbin/apachectl (start|startssl|stop|restart|graceful|status|fullstatus|configtest|help)
user:group     :: www:www

```

Notes:

The OpenBSD team has added default chrooting, privilege revocation, and other security-related improvements to their Apache httpd 1.3 package.

### **OpenBSD 5.0 (Apache httpd 2.2 (Unedited, non-hardened version)):**

```

ServerRoot      :: /var/apache2
Config File     :: /etc/apache2/httpd2.conf
DocumentRoot    :: /var/apache2/htdocs/
ErrorLog        :: /var/apache2/logs/error_log
AccessLog       :: /var/apache2/logs/access_log
cgi-bin         :: /var/apache2/cgi-bin
binaries (apachectl) :: /usr/local/sbin/apachectl2
start/stop      :: /usr/local/sbin/apachectl2 (start|stop|restart|graceful|graceful-stop|status|fullstatus|configtest)
user:group      :: _apache2:_apache2

```

### **Win32 (Apache httpd 2.2):**

```

ServerRoot      :: "C:/Program Files/Apache Software Foundation/Apache2.2"
Config File     :: "C:/Program Files/Apache Software Foundation/Apache2.2/conf/httpd.conf"
DocumentRoot    :: "C:/Program Files/Apache Software Foundation/Apache2.2/htdocs"
ErrorLog        :: "C:/Program Files/Apache Software Foundation/Apache2.2/logs/error.log"
AccessLog       :: "C:/Program Files/Apache Software Foundation/Apache2.2/logs/access.log"
cgi-bin         :: "C:/Program Files/Apache Software Foundation/Apache2.2/cgi-bin/"
binaries (apachectl) :: "C:/Program Files/Apache Software Foundation/Apache2.2/bin"

```

Notes;

There are extra config files in "C:/Program Files/Apache Software Foundation/Apache2.2/conf/extra" that can be included for options such as vhosts

### **Solaris 10 (Apache httpd 2.0):**

```

ServerRoot      :: /usr/apache2
Config File     :: /etc/apache2/httpd.conf
DocumentRoot    :: /var/apache2/htdocs
ErrorLog        :: /var/apache2/logs/error_log
AccessLog       :: /var/apache2/logs/access_log
cgi-bin         :: /var/apache2/cgi-bin
binaries        :: /usr/apache2/bin

```

Notes:

Config needs to be copied from example file to httpd.conf. Apache-1.3 is the default installation in /etc/init.d and /etc/rc3.d files.

### **Slackware 12.0+ (Apache httpd 2.2):**

```

ServerRoot      :: /usr
DocumentRoot    :: /svr/httpd/htdocs
AccessLog       :: /var/log/httpd/access_log
ErrorLog        :: /var/log/httpd/error_log
binaries (apachectl) :: /usr/sbin
modules         :: /usr/lib/httpd
system startup script :: /etc/rc.d/rc.httpd (start|restart|graceful|graceful-stop|stop)

```

```
Apache config file    :: /etc/httpd/httpd.conf
mod_ssl config file   :: /etc/httpd/extra/httpd-ssl.conf
php config file       :: /etc/httpd/mod_php.conf
cgi-bin              :: /srv/httpd/cgi-bin
on-line docs ("manual") :: /srv/httpd/htdocs/manual
```

### **openSUSE and SLES (Apache httpd 2.2):**

```
ServerRoot           :: /srv/www
DocumentRoot         :: /srv/www/htdocs
Apache Config File    :: /etc/apache2/httpd.conf
Other Config Files    :: /etc/sysconfig/apache2
SSL Config File       :: /etc/apache2/ssl-global.conf
ErrorLog              :: /var/log/apache2/error_log
AccessLog             :: /var/log/apache2/access_log
cgi-bin              :: /srv/www/cgi-bin
binaries (apachectl)  :: /usr/sbin
start/stop           :: /etc/init.d/apache2 (start|restart|restart-graceful|reload|graceful|graceful-stop|stop|configtest)
```

Notes:

Modules are enabled in /etc/sysconfig/apache2 which is read by the startup script. The a2enmod/a2dismod tool can be used to activate/deactivate modules.

See /usr/share/doc/packages/apache2/README.SUSE for more information.

### **Gentoo (Apache httpd 2.2):**

```
ServerRoot           :: /usr/lib/apache2
DocumentRoot         :: /var/www/localhost/htdocs
Apache Config File    :: /etc/apache2/httpd.conf
Other Config Files    :: /etc/conf.d/apache2
Default VHost Config  :: /etc/apache2/vhosts.d/00_default_vhost.conf
Module Configuration  :: /etc/apache2/modules.d
Module Locations      :: /usr/lib/apache2/modules
ErrorLog              :: /var/log/apache2/error_log
AccessLog             :: /var/log/apache2/access_log
cgi-bin              :: /var/www/localhost/cgi-bin
binaries (apache2ctl) :: /usr/sbin
start/stop           :: /etc/init.d/apache2 (start|restart|graceful|stop|configtest)
```