

#

This is the main Apache HTTP server configuration file. It contains the

configuration directives that give the server its instructions.

See <URL:<http://httpd.apache.org/docs/2.2>> for detailed information.

In particular, see

<URL:<http://httpd.apache.org/docs/2.2/mod/directives.html>>

for a discussion of each configuration directive.

#

Do NOT simply read the instructions in here without understanding

what they do. They're here only as hints or reminders. If you are unsure

consult the online docs. You have been warned.

#

Configuration and logfile names: If the filenames you specify for many

of the server's control files begin with "/" (or "drive:/" for Win32), the

server will use that explicit path. If the filenames do *not* begin

with "/", the value of ServerRoot is prepended -- so "logs/foo.log"

with ServerRoot set to "/xampp/apache" will be interpreted by the

server as "/xampp/apache/logs/foo.log".

#

NOTE: Where filenames are specified, you must use forward slashes

instead of backslashes (e.g., "c:/apache" instead of "c:\apache").

If a drive letter is omitted, the drive on which httpd.exe is located

will be used by default. It is recommended that you always supply

an explicit drive letter in absolute paths to avoid confusion.

#

ServerRoot: The top of the directory tree under which the server's

configuration, error, and log files are kept.

#

Do not add a slash at the end of the directory path. If you point

ServerRoot at a non-local disk, be sure to point the LockFile directive

at a local disk. If you wish to share the same ServerRoot for multiple

httpd daemons, you will need to change at least LockFile and PidFile.

#

ServerRoot "/xampp/apache"

#

Listen: Allows you to bind Apache to specific IP addresses and/or

ports, instead of the default. See also the <VirtualHost>

directive.

#

Change this to Listen on specific IP addresses as shown below to

prevent Apache from glomming onto all bound IP addresses.

#

#Listen 0.0.0.0:80

#Listen [::]:80

Listen 80

Default charset UTF8

AddDefaultCharset utf-8

#

Dynamic Shared Object (DSO) Support

#

To be able to use the functionality of a module which was built as a DSO you

have to place corresponding 'LoadModule' lines at this location so the

directives contained in it are actually available _before_ they are used.

Statically compiled modules (those listed by 'httpd -l') do not need

to be loaded here.

#

Example:

LoadModule foo_module modules/mod_foo.so

#

LoadModule access_compat_module modules/mod_access_compat.so

LoadModule actions_module modules/mod_actions.so

LoadModule alias_module modules/mod_alias.so

LoadModule allowmethods_module modules/mod_allowmethods.so

LoadModule asis_module modules/mod_asis.so

LoadModule auth_basic_module modules/mod_auth_basic.so

#LoadModule auth_digest_module modules/mod_auth_digest.so

#LoadModule authn_anon_module modules/mod_authn_anon.so

LoadModule authn_core_module modules/mod_authn_core.so

#LoadModule authn_dbd_module modules/mod_authn_dbd.so

#LoadModule authn_dbm_module modules/mod_authn_dbm.so

LoadModule authn_file_module modules/mod_authn_file.so

#LoadModule authn_socache_module modules/mod_authn_socache.so

#LoadModule authnz_ldap_module modules/mod_authnz_ldap.so

LoadModule authz_core_module modules/mod_authz_core.so

#LoadModule authz_dbd_module modules/mod_authz_dbd.so

#LoadModule authz_dbm_module modules/mod_authz_dbm.so

LoadModule authz_groupfile_module modules/mod_authz_groupfile.so

LoadModule authz_host_module modules/mod_authz_host.so

#LoadModule authz_owner_module modules/mod_authz_owner.so

LoadModule authz_user_module modules/mod_authz_user.so

LoadModule autoindex_module modules/mod_autoindex.so

#LoadModule bucketeer_module modules/mod_bucketeer.so

#LoadModule cache_module modules/mod_cache.so

#LoadModule case_filter_module modules/mod_case_filter.so

#LoadModule case_filter_in_module modules/mod_case_filter_in.so

#LoadModule cern_meta_module modules/mod_cern_meta.so

LoadModule cgi_module modules/mod_cgi.so

#LoadModule charset_lite_module modules/mod_charset_lite.so

#LoadModule dav_module modules/mod_dav.so

#LoadModule dav_fs_module modules/mod_dav_fs.so

LoadModule dav_lock_module modules/mod_dav_lock.so

#LoadModule dbd_module modules/mod_dbd.so

#LoadModule deflate_module modules/mod_deflate.so

LoadModule dir_module modules/mod_dir.so

#LoadModule disk_cache_module modules/mod_disk_cache.so

```
#LoadModule dumpio_module modules/mod_dumpio.so
#LoadModule echo_module modules/mod_echo.so
LoadModule env_module modules/mod_env.so
#LoadModule example_module modules/mod_example.so
#LoadModule expires_module modules/mod_expires.so
#LoadModule ext_filter_module modules/mod_ext_filter.so
#LoadModule fcgid_module modules/mod_fcgid.so # did not work at runtime
#LoadModule file_cache_module modules/mod_file_cache.so
#LoadModule filter_module modules/mod_filter.so
LoadModule headers_module modules/mod_headers.so
#LoadModule ident_module modules/mod_ident.so
#LoadModule imagemap_module modules/mod_imagemap.so
LoadModule include_module modules/mod_include.so
LoadModule info_module modules/mod_info.so
LoadModule isapi_module modules/mod_isapi.so
#LoadModule ldap_module modules/mod_ldap.so
#LoadModule logio_module modules/mod_logio.so
LoadModule log_config_module modules/mod_log_config.so
#LoadModule log_forensic_module modules/mod_log_forensic.so
LoadModule cache_disk_module modules/mod_cache_disk.so
LoadModule mime_module modules/mod_mime.so
#LoadModule mime_magic_module modules/mod_mime_magic.so
LoadModule negotiation_module modules/mod_negotiation.so
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
```

#LoadModule proxy_balancer_module modules/mod_proxy_balancer.so

#LoadModule proxy_connect_module modules/mod_proxy_connect.so

#LoadModule proxy_ftp_module modules/mod_proxy_ftp.so

#LoadModule proxy_http_module modules/mod_proxy_http.so

LoadModule rewrite_module modules/mod_rewrite.so

LoadModule setenvif_module modules/mod_setenvif.so

#LoadModule speling_module modules/mod_speling.so

LoadModule ssl_module modules/mod_ssl.so

LoadModule status_module modules/mod_status.so

#LoadModule substitute_module modules/mod_substitute.so

#LoadModule unique_id_module modules/mod_unique_id.so

#LoadModule userdir_module modules/mod_userdir.so

#LoadModule usertrack_module modules/mod_usertrack.so

#LoadModule version_module modules/mod_version.so

#LoadModule vhost_alias_module modules/mod_vhost_alias.so

<IfModule !mpm_netware_module>

<IfModule !mpm_winnt_module>

#

If you wish httpd to run as a different user or group, you must run

httpd as root initially and it will switch.

#

User/Group: The name (or #number) of the user/group to run httpd as.

It is usually good practice to create a dedicated user and group for

running httpd, as with most system services.

#

User daemon

Group daemon

</IfModule>

</IfModule>

'Main' server configuration

#

The directives in this section set up the values used by the 'main'

server, which responds to any requests that aren't handled by a

<VirtualHost> definition. These values also provide defaults for

any <VirtualHost> containers you may define later in the file.

#

All of these directives may appear inside <VirtualHost> containers,

in which case these default settings will be overridden for the

virtual host being defined.

#

#

ServerAdmin: Your address, where problems with the server should be

e-mailed. This address appears on some server-generated pages, such

as error documents. e.g. admin@your-domain.com

#

ServerAdmin postmaster@localhost

#

ServerName gives the name and port that the server uses to identify itself.

This can often be determined automatically, but we recommend you specify

it explicitly to prevent problems during startup.

#

If your host doesn't have a registered DNS name, enter its IP address here.

#

ServerName localhost:80

#

DocumentRoot: The directory out of which you will serve your

documents. By default, all requests are taken from this directory, but

symbolic links and aliases may be used to point to other locations.

#

DocumentRoot "/xampp/htdocs"

#

Each directory to which Apache has access can be configured with respect

to which services and features are allowed and/or disabled in that

directory (and its subdirectories).

#

First, we configure the "default" to be a very restrictive set of

features.

#

```
<Directory />
```

```
AllowOverride none
```

```
Require all denied
```

```
</Directory>
```

```
# XAMPP: We disable operating system specific optimizations for a listening
```

```
# socket by the http protocol here. IE 64 bit make problems without this.
```

```
AcceptFilter http none
```

```
#
```

```
# Note that from this point forward you must specifically allow
```

```
# particular features to be enabled - so if something's not working as
```

```
# you might expect, make sure that you have specifically enabled it
```

```
# below.
```

```
#
```

```
#
```

```
# This should be changed to whatever you set DocumentRoot to.
```

```
#
```

```
<Directory "/xampp/htdocs">
```

```
#
```

```
# Possible values for the Options directive are "None", "All",
```

```
# or any combination of:
```

```
# Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews
```

#

Note that "MultiViews" must be named *explicitly* --- "Options All"

doesn't give it to you.

#

The Options directive is both complicated and important. Please see

<http://httpd.apache.org/docs/2.2/mod/core.html#options>

for more information.

#

Options Indexes FollowSymLinks Includes ExecCGI

#

AllowOverride controls what directives may be placed in .htaccess files.

It can be "All", "None", or any combination of the keywords:

Options FileInfo AuthConfig Limit

#

AllowOverride All

#

Controls who can get stuff from this server.

#

Require all granted

</Directory>

#

DirectoryIndex: sets the file that Apache will serve if a directory

is requested.

#

<IfModule dir_module>

DirectoryIndex index.php index.pl index.cgi index.asp index.shtml index.html index.htm \

default.php default.pl default.cgi default.asp default.shtml default.html default.htm \

home.php home.pl home.cgi home.asp home.shtml home.html home.htm

</IfModule>

#

The following lines prevent .htaccess and .htpasswd files from being

viewed by Web clients.

#

<Files ".ht*">

Require all denied

</Files>

#

ErrorLog: The location of the error log file.

If you do not specify an ErrorLog directive within a <VirtualHost>

container, error messages relating to that virtual host will be

logged here. If you *do* define an error logfile for a <VirtualHost>

container, that host's errors will be logged there and not here.

#

ErrorLog "logs/error.log"

```
#ScriptLog "logs/cgi.log"
```

```
#
```

```
# LogLevel: Control the number of messages logged to the error_log.
```

```
# Possible values include: debug, info, notice, warn, error, crit,
```

```
# alert, emerg.
```

```
#
```

```
LogLevel warn
```

```
<IfModule log_config_module>
```

```
#
```

```
# The following directives define some format nicknames for use with
```

```
# a CustomLog directive (see below).
```

```
#
```

```
LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined
```

```
LogFormat "%h %l %u %t \"%r\" %>s %b" common
```

```
<IfModule logio_module>
```

```
# You need to enable mod_logio.c to use %l and %O
```

```
LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %l %O"
combinedio
```

```
</IfModule>
```

```
#
```

The location and format of the access logfile (Common Logfile Format).

If you do not define any access logfiles within a <VirtualHost>

container, they will be logged here. Contrariwise, if you *do*

define per-<VirtualHost> access logfiles, transactions will be

logged therein and *not* in this file.

#

#CustomLog "logs/access.log" common

#

If you prefer a logfile with access, agent, and referer information

(Combined Logfile Format) you can use the following directive.

#

CustomLog "logs/access.log" combined

</IfModule>

<IfModule alias_module>

#

Redirect: Allows you to tell clients about documents that used to

exist in your server's namespace, but do not anymore. The client

will make a new request for the document at its new location.

Example:

Redirect permanent /foo http://localhost/bar

#

Alias: Maps web paths into filesystem paths and is used to

access content that does not live under the DocumentRoot.

Example:

Alias /webpath /full/filesystem/path

#

If you include a trailing / on /webpath then the server will

require it to be present in the URL. You will also likely

need to provide a <Directory> section to allow access to

the filesystem path.

#

ScriptAlias: This controls which directories contain server scripts.

ScriptAliases are essentially the same as Aliases, except that

documents in the target directory are treated as applications and

run by the server when requested rather than as documents sent to the

client. The same rules about trailing "/" apply to ScriptAlias

directives as to Alias.

#

ScriptAlias /cgi-bin/ "/xampp/cgi-bin/"

</IfModule>

<IfModule cgid_module>

#

ScriptSock: On threaded servers, designate the path to the UNIX

socket used to communicate with the CGI daemon of mod_cgid.

```
#

#Scriptsock "logs/cgi.sock"
</IfModule>


#
# "/xampp/cgi-bin" should be changed to whatever your ScriptAliased
# CGI directory exists, if you have that configured.
#
<Directory "/xampp/cgi-bin">
    AllowOverride None
    Options None
    Require all granted
</Directory>


<IfModule mime_module>

#
# TypesConfig points to the file containing the list of mappings from
# filename extension to MIME-type.
#
TypesConfig "conf/mime.types"

#
# AddType allows you to add to or override the MIME configuration
# file specified in TypesConfig for specific file types.
```

#

#AddType application/x-gzip .tgz

#

AddEncoding allows you to have certain browsers uncompress

information on the fly. Note: Not all browsers support this.

#

#AddEncoding x-compress .Z

#AddEncoding x-gzip .gz .tgz

#

If the AddEncoding directives above are commented-out, then you

probably should define those extensions to indicate media types:

#

AddType application/x-compress .Z

AddType application/x-gzip .gz .tgz

#

AddHandler allows you to map certain file extensions to "handlers":

actions unrelated to filetype. These can be either built into the server

or added with the Action directive (see below)

#

To use CGI scripts outside of ScriptAliased directories:

(You will also need to add "ExecCGI" to the "Options" directive.)

#

AddHandler cgi-script .cgi .pl .asp

For type maps (negotiated resources):

#AddHandler type-map var

#

Filters allow you to process content before it is sent to the client.

#

To parse .shtml files for server-side includes (SSI):

(You will also need to add "Includes" to the "Options" directive.)

#

AddType text/html .shtml

AddOutputFilter INCLUDES .shtml

</IfModule>

<IfModule mime_magic_module>

#

The mod_mime_magic module allows the server to use various hints from the

contents of the file itself to determine its type. The MIMEMagicFile

directive tells the module where the hint definitions are located.

#

MIMEMagicFile "conf/magic"

</IfModule>

#

Customizable error responses come in three flavors:

1) plain text 2) local redirects 3) external redirects

#

Some examples:

#ErrorDocument 500 "The server made a boo boo."

#ErrorDocument 404 /missing.html

#ErrorDocument 404 "/cgi-bin/missing_handler.pl"

#ErrorDocument 402 http://localhost/subscription_info.html

#

#

EnableMMAP and EnableSendfile: On systems that support it,

memory-mapping or the sendfile syscall is used to deliver

files. This usually improves server performance, but must

be turned off when serving from networked-mounted

filesystems or if support for these functions is otherwise

broken on your system.

#

#EnableMMAP off

#EnableSendfile off

Supplemental configuration

#

The configuration files in the conf/extra/ directory can be

included to add extra features or to modify the default configuration of

the server, or you may simply copy their contents here and change as

necessary.

XAMPP specific settings

Include "conf/extra/httpd-xampp.conf"

Server-pool management (MPM specific)

Include "conf/extra/httpd-mpm.conf"

Multi-language error messages

Include "conf/extra/httpd-multilang-errordoc.conf"

Fancy directory listings

Include "conf/extra/httpd-autoindex.conf"

Language settings

Include "conf/extra/httpd-languages.conf"

User home directories

Include "conf/extra/httpd-userdir.conf"

Real-time info on requests and configuration

Include "conf/extra/httpd-info.conf"

Virtual hosts

Include "conf/extra/httpd-vhosts.conf"

Distributed authoring and versioning (WebDAV)

Attention! WEB_DAV is a security risk without a new userspecific configuration for a secure authentication

Include "conf/extra/httpd-dav.conf"

Implements a proxy/gateway for Apache.

Include "conf/extra/httpd-proxy.conf"

Various default settings

Include "conf/extra/httpd-default.conf"

Secure (SSL/TLS) connections

Include "conf/extra/httpd-ssl.conf"

#

Note: The following must must be present to support

starting without SSL on platforms with no /dev/random equivalent

but a statically compiled-in mod_ssl.

#

<IfModule ssl_module>

 SSLRandomSeed startup builtin

 SSLRandomSeed connect builtin

</IfModule>

Configure mod_proxy_html to understand HTML4/XHTML1

#<IfModule proxy_html_module>

```
#Include etc/extra/proxy-html.conf
```

```
#</IfModule>
```

```
# AJP13 Proxy
```

```
<IfModule mod_proxy.c>
```

```
<IfModule mod_proxy_ajp.c>
```

```
Include "conf/extra/httpd-ajp.conf"
```

```
</IfModule>
```

```
</IfModule>
```