



Apache Quick Reference Guide

Revision 1.0 for Apache version 1.3.1.




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The card summarizes information in the Apache documentation, which can be found at <http://www.apache.org/docs/>.






Each directive is listed with its arguments. Defaults are given where appropriate in parentheses at the end of the line, followed by an indication of the status of the directive (**C** = core, **B** = base, **E** = extension) and the contexts in which the directive is valid (**c** = in a configuration file, **v** = within a virtual host section, **d** = within a directory section, **a** = in an access control file).

Options and directives that are new for Apache 1.3 are marked , while those that have changed are marked .








Command line options

```
httpd [-d directory] [-f file] [-C directive]
      [-c directive] [-h] [-l] [-S] [-v] [-V] [-X]
-d directory  initial value for ServerRoot
-D parameter define parameter for <IfDefine>
-f file       configuration file (conf/httpd.conf)
-C directive process directive before reading config files 
-c directive process directive after reading config files 
-h            list available configuration directives and exit
-l            list compiled-in modules and exit
-S            show vhost settings
-t            test syntax of configuration files and exit
-v            print version and exit
-V            show compilation settings and exit 
-X            debug mode
```





General configuration directives

```
DocumentRoot directory (/usr/local/apache/share/htdocs) C cv
ServerRoot directory (/usr/local/apache) C cv
AccessConfig filename (conf/access.conf) C cv
ResourceConfig filename (conf/srm.conf) C cv
Include filename C cv 
TypesConfig filename (conf/mime.types) B cv
PidFile filename (logs/httpd.pid) C cv
LockFile filename (logs/accept.lock) C cv
ScoreBoardFile file (logs/apache_status) C cv
ServerAdmin email-addr C cv
ServerType {inetd|standalone} (standalone) C cv
ServerName name (determined automatically) C cv
ServerAlias fqdn C cv
ServerSignature {On|Off|Email} (Off) C cvda 
ServerPath pathname C cv
ServerTokens {Min[imal]|OS|Full} (Full) C cv 
BindAddress {*|IP-addr} (*) C cv
Listen [IP-addr]:port-number C cv
Port portno (80) C cv
User {username|#userid} (#-1) C cv
Group {group-name|#group-id} (#-1) C cv
NameVirtualHost addr[:port] C cv 
UseCanonicalName {On|Off} (On) C cvda 
CoreDumpDirectory directory (as ServerRoot) C cv 
IdentityCheck {On|Off} (Off) C cvd
ClearModuleList C cv
AddModule module ... C cv
AddModuleInfo module text B cv 
```

Sectional directives

<Directory <i>pattern</i> > ... </Directory>	E cv	
<DirectoryMatch <i>pattern</i> > ... </DirectoryMatch>	E cv	
<Files <i>pattern</i> > ... </Files>	E cv	
<FilesMatch <i>pattern</i> > ... </FilesMatch>	E cv	
<Location <i>pattern</i> > ... </Location>	E cv	
<LocationMatch <i>pattern</i> > ... </LocationMatch>	E cv	
<VirtualHost <i>pattern</i> > ... </VirtualHost>	E cv	
<IfDefine <i>parameter</i> > ... </IfDefine>	E cv	
<IfModule <i>module</i> > ... </IfModule>	E cv	
<Limit <i>method</i> > ... </Limit>	E cv	




Logging directives

ErrorLog { <i>filename</i> syslog }	(logs/error_log) C cv	
CustomLog <i>file-or-pipe</i> { <i>format-string</i> <i>format-name</i> }	B cv	
TransferLog <i>file-or-pipe</i>	(logs/access_log) B cv	
HostnameLookups { On Off Double }	(Off) C cvd	
RefererIgnore <i>hostname</i> ...	E cv	
LogFormat <i>format-string</i> ("%h %l %u %t \"%r\" %s %b")	B cv	
	[<i>format-name</i>]	
LogLevel { emerg alert crit error warn notice info debug }	(error) C cv	

format-string can contain literal text and format specifiers:

%a	Remote IP address
%b	Number of bytes sent (excluding headers)
%{ <i>var</i> }e	Environment variable value
%f	Filename
%h	Remote host
%{ <i>hdr</i> }i	Incoming header value
%l	Remote logname (from identd)
%{ <i>hdr</i> }o	Outgoing header value
%p	Canonical port number of server
%P	Process ID of child server process
%r	First line of request
%s	Status
%t	Time in Common Log Format (CLF) format
%{ <i>format</i> }t	Time (<i>format</i> is strftime format)
%T	Time taken to serve the request (in seconds)
%u	Remote username
%U	URL requested
%v	Canonical ServerName of server

Performance tuning directives

Timeout <i>secs</i>	(300) C cv	
KeepAlive { On Off }	(On) C cv	Note:
KeepAliveTimeout <i>seconds</i>	(15) C cv	
MaxKeepAliveRequests <i>number</i>	(100) C cv	
MaxClients <i>number</i>	(256) C cv	
MaxRequestsPerChild <i>number</i>	C cv	
ExcessRequestsPerChild <i>number</i>	E cv	
MaxSpareServers <i>number</i>	(10) C cv	
MinSpareServers <i>number</i>	(5) C cv	
StartServers <i>number</i>	(5) C cv	
ListenBacklog <i>number</i>	(511) C cv	
RLimitCPU { <i>secs</i> max } [{ <i>secs</i> max }]	C cvda	
RLimitMEM { <i>bytes</i> max } [{ <i>bytes</i> max }]	C cvda	
RLimitNPROC { <i>nprocs</i> max } [{ <i>nprocs</i> max }]	C cvda	
SendBufferSize <i>bytes</i>	C cv	
ThreadsPerChild <i>number</i>	(50) C cv	

File typing directives

DefaultType <i>MIME-type</i>	(text/html)	C cvda
ForceType <i>MIME-type</i>		B cvda
AddHandler <i>handler-name extension ...</i>		B cvda
AddType <i>MIME-type extension ...</i>		B cvda
AddEncoding <i>MIME-enc extension ...</i>		B cvda
AddLanguage <i>MIME-language extension ...</i>		B cvda
LanguagePriority <i>lang ...</i>		B cvda
XBitHack {On Off Full}	(Off)	B cvda
MetaFiles {On Off}	(Off)	E cvda
MetaDir <i>dir-name</i>	(.web)	E cvda
MetaSuffix <i>suffix</i>	(.meta)	E cvda
MimeMagicFile <i>filename</i>		E cv
ExpiresActive {On Off}		E cvda
ExpiresByType <i>MIME-type expiry-code</i>		E cvda
ExpiresDefault <i>expiry-code</i>		E cvda
Header {set append add unset} <i>header value</i>		E cvda


Mapping directives

Action <i>MIME-type script</i>		B cvda
Alias <i>url-path real-path</i>		B cv
AliasMatch <i>url-regex path-replacement</i>		B cv
Redirect [<i>status</i>] <i>url-path url</i>		B cvda
RedirectMatch [<i>status</i>] <i>url-regex dest-url</i>		B cvda
RedirectPermanent <i>url-path url-dest</i>		B cvda
RedirectTemp <i>url-path url-dest</i>		B cvda
Script <i>method script</i>		B cvd
ScriptAlias <i>url-path script-dir</i>		B cv
ScriptAliasMatch <i>url-regex script-dir</i>		B cv
SetHandler <i>handler-name</i>		B cvda
UserDir {DISABLED DISABLED user ... ENABLED user ...}	(public_html)	B cv
ErrorDocument <i>error-code {string url}</i>		C cvda
ImapBase {map referer url}	(http://server)	B cvda
ImapDefault {error nocontent referer menu url}	(nocontent)	B cvda
ImapMenu {none formatted semiformatted unformatted}		B cvda
RewriteBase <i>url</i>		E cvda
RewriteCond <i>test-string cond-pattern [flags]</i>		E cvda
RewriteEngine {On Off}	(Off)	E cvda
RewriteLock <i>filename</i>		E cv
RewriteLog <i>filename</i>		E cv
RewriteLogLevel <i>digit</i>		E cv
RewriteMap <i>map-name map-type:map-source</i>		E cv
RewriteOptions <i>option</i>		E cvda
RewriteRule <i>pattern substitution [flags]</i>		E cvda

Scripting directives


BrowserMatch <i>regexp var[=value] ...</i>		B cv
BrowserMatchNoCase <i>regexp var[=value] ...</i>		B cv
PassEnv <i>varname ...</i>		B cv
SetEnv <i>varname value</i>		B cv
SetEnvIf <i>headername regexp var[=value] ...</i>		B cv
SetEnvIfNoCase <i>headername regexp var[=value] ...</i>		B cv
UnsetEnv <i>varname ...</i>		B cv
ScriptLog <i>filename</i>		B cv
ScriptLogBuffer <i>size-bytes</i>		B cv
ScriptLogLength <i>length-bytes</i>		B cv

Directory indexing directives

DirectoryIndex <i>file</i>	(index.html)	B cvda
ReadmeName <i>filename</i>		B cvda
HeaderName <i>filename</i>		B cvda
IndexIgnore <i>pattern ...</i>		B cvda
DefaultIcon <i>url</i>		B cvda
AddAlt " <i>string</i> " <i>file ...</i>		B cvda
AddAltByEncoding " <i>string</i> " <i>MIME-encoding ...</i>		B cvda
AddAltByType " <i>string</i> " <i>MIME-type ...</i>		B cvda
AddIcon <i>icon file ...</i>		B cvda
AddIconByType <i>icon MIME-type ...</i>		B cvda
AddIconByEncoding <i>icon MIME-encoding ...</i>		B cvda
AddDescription " <i>description</i> " <i>file-pattern</i>		B cvda
IndexOptions <i>option ...</i>	(no options)	B cvda 

Valid index options are: FancyIndexing,
IconsHeight=*pixels*, IconsWidth=*pixels*,
IconsAreLinks, ScanHTMLTitles,
SupressColumnSorting, SupressDescription,
SupressHTMLPreamble, SupressLastModified, SupressSize

Access control directives

AccessFileName <i>filename ...</i>	(.htaccess)	C cv 
AllowOverride <i>directive-group ...</i>	(All)	C d

Valid directive groups are: None, All, AuthConfig, FileInfo, Indexes, Limit, Options

Options { <i>+feature -feature</i> } ...	(All)	C cvda
--	-------	---------------

Valid options are: None, All, ExecCGI, FollowSymLinks, Includes, IncludesNOEXEC, Indexes, MultiViews, SymLinksIfOwnerMatch

AuthName <i>realm-name</i>		C da
AuthType <i>type</i>		C da
AuthUserFile <i>filename</i>		B da
AuthGroupFile <i>filename</i>		B da
AuthAuthoritative {On Off}	(On)	B da
allow from { <i>all host ... env=var</i> }		B da
deny from { <i>all host ... env=var</i> }		B da
order { <i>allow,deny deny,allow mutual-failure</i> }	(deny, allow)	B da
Require { <i>user user ... group group ... valid-user</i> }		C da
Satisfy { <i>All Any</i> }	(All)	C da

Apache-SSL directives

SSLBanCipher <i>cipher</i>		E cvda
SSLCACertificateFile <i>file</i>		E cv
SSLCACertificatePath <i>path</i>		E
SSLCertificateFile <i>filename</i>		E cv
SSLCertificateKeyFile <i>filename</i>		E cv
SSLDisable		E cv
SSLEnable		E cv
SSLFakeBasicAuth		E cv
SSLLogFile <i>file</i>		E cv
SSLRequireCipher <i>cipher</i>		E cvda
SSLRequiredCiphers <i>list</i>		E cv
SSLVerifyClient <i>number</i>		E cv
SSLVerifyDepth <i>number</i>		E cv

Common Gateway Interface (CGI) variables

AUTH_TYPE	Authentication method used
CONTENT_LENGTH	Length of input stream data
CONTENT_TYPE	Internet media type of input stream

GATEWAY_INTERFACE	CGI version
PATH_INFO	URL part after script identifier
PATH_TRANSLATED	PATH_INFO translated into filesystem
QUERY_STRING	Query string from URL (if present)
REMOTE_ADDR	IP address of client
REMOTE_HOST	DNS name of client
REMOTE_IDENT	Remote user id (unreliable)
REMOTE_USER	Name of the authenticated user
REQUEST_METHOD	HTTP request method
SCRIPT_NAME	Virtual path of the script
SERVER_NAME	Host-name of the server
SERVER_PORT	Port number of server
SERVER_PROTOCOL	Name and version of the protocol
SERVER_SOFTWARE	Server software name and version
HTTP_ACCEPT	MIME types the browser will accept
HTTP_REFERER	URL of referring document
HTTP_USER_AGENT	Client software identification
MOD_PERL	Defined if running under mod_perl

Apache-SSL extensions

HTTPS	Set if HTTPS is being used
HTTPS_CIPHER	SSL/TLS cipherspec
SSL_CIPHER	The same as HTTPS_CIPHER
SSL_PROTOCOL_VERSION	
SSL_SSLEAY_VERSION	
HTTPS_KEYSIZE	Number of bits in the session key
HTTPS_SECRETKEYSIZE	Number of bits in the secret key
SSL_CLIENT_DN	DN in client's certificate
SSL_CLIENT_<x509>	Component of client's DN
SSL_CLIENT_I_DN	DN of issuer of client's certificate
SSL_CLIENT_I_<x509>	Component of client's issuer's DN
SSL_SERVER_DN	DN in server's certificate
SSL_SERVER_<x509>	Component of server's DN
SSL_SERVER_I_DN	DN of issuer of server's certificate
SSL_SERVER_I_<x509>	Component of server's issuer's DN

Server Side Includes (SSI)

Format is: `<!--#element attr=value ... -->`

Elements are:

config	controls parsing; attributes: errmsg, sizefmt (one of bytes or abbrev)
echo	print the value of a variable; attribute var (can be a CGI variable or one of: DATE_GMT, DATE_LOCAL, DOCUMENT_NAME, DOCUMENT_URI or LAST_MODIFIED)
set	set the value of a variable; attributes: var, value
printenv	print a list of all variables and their values
exec	execute a shell command or CGI script; attribute: cmd or cgi (IncludesNOEXEC option disables exec)
fsize	print size of file; attribute: file or virtual
flastmod	print file modification time; attribute file or virtual
include	include another document; attribute file or virtual
if	conditional; attribute: expr
elif	conditional; attribute: expr
else	conditional
endif	conditional

HTTP 1.1 status codes

100 Continue	404 Not found
101 Switching protocols	405 Method not allowed
200 OK	406 Not acceptable
201 Created	407 Proxy authentication required
202 Accepted	408 Request timeout
203 Non-authoritative information	409 Conflict
204 No content	410 Gone
205 Reset content	411 Length required
206 Partial content	412 Precondition failed
300 Multiple choices	413 Request entity too large
301 Moved permanently	414 Request-URI too long
302 Moved temporarily	415 Unsupported media type
303 See other	500 Internal server error
304 Not modified	501 Not implemented
305 Use proxy	502 Bad gateway
400 Bad request	503 Service unavailable
401 Unauthorized	504 Gateway timeout
402 Payment required	505 HTTP version not supported
403 Forbidden	

Apache Web Resources

http://www.apache.org/	Apache home page
http://www.apache.org/docs/	Apache documentation
http://modules.apache.org/	Apache Module Registry
http://www.apache-ssl.org/	Apache-SSL Home Page
http://java.apache.org/	The Java-Apache Project
http://perl.apache.org/	The Apache/Perl Integration Project
http://www.php.net/	PHP: Hypertext Processor
http://www.apacheweek.com/	Apache Week
http://www.netcraft.com/Survey/	Netcraft Server Survey

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