

Apache Configuration File

(!) Using `.htaccess` files slows down Apache, therefore, if you have access to the main server config file (usually called `httpd.conf`), you should add this logic there: <http://httpd.apache.org/docs/current/howto/htaccess.html>.

```
# #####  
# # CROSS-ORIGIN RESOURCE SHARING (CORS) #  
# #####
```

```
# -----  
# | Cross-domain AJAX requests |  
# -----
```

Enable cross-origin AJAX requests.
<http://code.google.com/p/html5security/wiki/CrossOriginRequestSecurity>
<http://enable-cors.org/>

```
# <IfModule mod_headers.c>  
#   Header set Access-Control-Allow-Origin "*"   
# </IfModule>
```

```
# -----  
# | CORS-enabled images |  
# -----
```

Send the CORS header for images when browsers request it.
https://developer.mozilla.org/en/CORS_Enabled_Image
<http://blog.chromium.org/2011/07/using-cross-domain-images-in-webgl-and.html>
<http://hacks.mozilla.org/2011/11/using-cors-to-load-webgl-textures-from-cross-domain-images/>

```
<IfModule mod_setenvif.c>  
  <IfModule mod_headers.c>  
    <FilesMatch "\.(gif|ico|jpe?g|png|svg|svgz|webp)$">  
      SetEnvIf Origin ":" IS_CORS  
      Header set Access-Control-Allow-Origin "*" env=IS_CORS  
    </FilesMatch>  
  </IfModule>  
</IfModule>
```

```
# -----
# | Web fonts access |
# -----

# Allow access from all domains for web fonts

<IfModule mod_headers.c>
    <FilesMatch "\.(eot|font\.css|otf|ttf|woff)$">
        Header set Access-Control-Allow-Origin "*"
    </FilesMatch>
</IfModule>

# #####
# # ERRORS #
# #####

# -----
# | 404 error prevention for non-existing redirected folders |
# -----

# Prevent Apache from returning a 404 error for a rewrite if a directory
# with the same name does not exist.
# http://httpd.apache.org/docs/current/content-negotiation.html#multiviews
# http://www.webmasterworld.com/apache/3808792.htm

Options -MultiViews

# -----
# | Custom error messages / pages |
# -----

# http://httpd.apache.org/docs/current/mod/core.html#error.document)

ErrorDocument 404 /404.html

# #####
# # INTERNET EXPLORER #
# #####

# -----
# | Better website experience |
# -----
```

```

# -----

# Force IE to render pages in the highest available mode in the various
# cases when it may not: http://hsivonen.iki.fi/doctype/ie-mode.pdf.
# Use, if installed, Google Chrome Frame.

<IfModule mod_headers.c>
    Header set X-UA-Compatible "IE=edge,chrome=1"
    # `mod_headers` can't match based on the content-type, however, we only
    # want to send this header for HTML pages and not for the other resources
    <FilesMatch "\.(appcache|crx|css|eot|gif|html|ico|jpe?
gl|jst|m4a|m4v|manifest|mp4|oex|ogal|ogg|ogv|otf|pdf|png|safariextz|svg|svgz|tfl|vcl|webapp|wet
    Header unset X-UA-Compatible
    </FilesMatch>
</IfModule>

# #####
# # MIME TYPES AND ENCODING #
# #####

# -----
# | Proper MIME types for all files |
# -----

<IfModule mod_mime.c>

# Audio
AddType audio/mp4 m4a f4a f4b
AddType audio/ogg oga ogg

# JavaScript
# Normalize to standard type (it's sniffed in IE anyways):
# http://tools.ietf.org/html/rfc4329#section-7.2
AddType application/javascript js jsonp
AddType application/json json

# Video
AddType video/mp4 mp4 m4v f4v f4p
AddType video/ogg ogv
AddType video/webm webm
AddType video/x-flv flv

```

Web fonts

```
AddType application/font-woff          woff
AddType application/vnd.ms-fontobject   eot
```

*# Browsers usually ignore the font MIME types and sniff the content,
however, Chrome shows a warning if other MIME types are used for the
following fonts.*

```
AddType application/x-font-ttf          ttc ttf
AddType font/opentype                    otf
```

Make SVGZ fonts work on iPad:

<https://twitter.com/FontSquirrel/status/14855840545>

```
AddType      image/svg+xml             svg svgz
AddEncoding   gzip                       svgz
```

Other

```
AddType application/octet-stream       safariextz
AddType application/x-chrome-extension   crx
AddType application/x-opera-extension    oex
AddType application/x-shockwave-flash    swf
AddType application/x-web-app-manifest+json webapp
AddType application/x-xpinstall          xpi
AddType application/xml                  atom rdf rss xml
AddType image/webp                       webp
AddType image/x-icon                      ico
AddType text/cache-manifest              appcache manifest
AddType text/vtt                          vtt
AddType text/x-component                  htc
AddType text/x-vcard                      vcf
```

</IfModule>

```
# -----
# | UTF-8 encoding |
# -----
```

Use UTF-8 encoding for anything served as `text/html` or `text/plain`.

```
AddDefaultCharset utf-8
```

Force UTF-8 for certain file formats.

```

<IfModule mod_mime.c>
    AddCharset utf-8 .atom .css .js .json .rss .vtt .webapp .xml
</IfModule>

# #####
# # URL REWRITES #
# #####

# -----
# | Rewrite engine |
# -----

# Turning on the rewrite engine and enabling the `FollowSymLinks` option is
# necessary for the following directives to work.

# If your web host doesn't allow the `FollowSymLinks` option, you may need to
# comment it out and use `Options +SymLinksIfOwnerMatch` but, be aware of the
# performance impact: http://httpd.apache.org/docs/current/misc/perf-tuning.html#symlinks

# Also, some cloud hosting services require `RewriteBase` to be set:
# http://www.rackspace.com/knowledge\_center/frequently-asked-question/why-is-mod-rewrite-not-working

<IfModule mod_rewrite.c>
    # Options +FollowSymLinks
    Options +SymLinksIfOwnerMatch
    RewriteEngine On
    # RewriteBase /
</IfModule>

# Remove .php extension from url
RewriteCond %{REQUEST_FILENAME} !-d
RewriteCond %{REQUEST_FILENAME}\.php -f
RewriteRule ^(.*)$ $1.php

# Redirect if user requests .php file
RewriteCond %{THE_REQUEST} \ /([\^/]+)\.php(?:\?| |$)
RewriteRule ^ /%1 [L,R=301]

# -----
# | Suppressing / Forcing the "www." at the beginning of URLs |
# -----

```

*# The same content should never be available under two different URLs especially
not with and without "www." at the beginning. This can cause SEO problems
(duplicate content), therefore, you should choose one of the alternatives and
redirect the other one.*

*# By default option 1 (no "www.") is activated:
http://no-www.org/faq.php?q=class_b*

*# If you'd prefer to use option 2, just comment out all the lines from option 1
and uncomment the ones from option 2.*

IMPORTANT: NEVER USE BOTH RULES AT THE SAME TIME!

-----

Option 1: rewrite www.example.com → example.com

```
<IfModule mod_rewrite.c>  
    RewriteCond %{HTTPS} !=on  
    RewriteCond %{HTTP_HOST} ^www\.(.+$) [NC]  
    RewriteRule ^ http://%1%{REQUEST_URI} [R=301,L]  
</IfModule>
```

-----

Option 2: rewrite example.com → www.example.com

*# Be aware that the following might not be a good idea if you use "real"
subdomains for certain parts of your website.*

```
# <IfModule mod_rewrite.c>  
#     RewriteCond %{HTTPS} !=on  
#     RewriteCond %{HTTP_HOST} !^www\..+$ [NC]  
#     RewriteRule ^ http://www.%{HTTP_HOST}%{REQUEST_URI} [R=301,L]  
# </IfModule>
```

-----

| File access |

-----

```

# Block access to directories without a default document.
# Usually you should leave this uncommented because you shouldn't allow anyone
# to surf through every directory on your server (which may includes rather
# private places like the CMS' s directories).

<IfModule mod_autoindex.c>
    Options -Indexes
</IfModule>

# -----

# Block access to hidden files and directories.
# This includes directories used by version control systems such as Git and SVN.

<IfModule mod_rewrite.c>
    RewriteCond %{SCRIPT_FILENAME} -d [OR]
    RewriteCond %{SCRIPT_FILENAME} -f
    RewriteRule "(^|/)\." - [F]
</IfModule>

# -----

# Block access to backup and source files.
# These files may be left by some text editors and can pose a great security
# danger when anyone has access to them.

<FilesMatch "(^#.#|\. (bak| config| dist| fl| incl| ini| log| psd| sh| sql| sw[op])| (^)"$">
    Order allow,deny
    Deny from all
    Satisfy All
</FilesMatch>

# -----

# -----
# | Server software information |
# -----

# Avoid displaying the exact Apache version number, the description of the
# generic OS-type and the information about Apache's compiled-in modules.

```

```
# ADD THIS DIRECTIVE IN THE `httpd.conf` AS IT WILL NOT WORK IN THE `.htaccess`!
```

```
# ServerTokens Prod
```

```
# #####  
# # WEB PERFORMANCE #  
# #####
```

```
# -----  
# | Compression |  
# -----
```

```
<IfModule mod_deflate.c>
```

```
    # Force compression for mangled headers.
```

```
    # http://developer.yahoo.com/blogs/ymn/posts/2010/12/pushing-beyond-gzipping
```

```
    <IfModule mod_setenvif.c>
```

```
        <IfModule mod_headers.c>
```

```
            SetEnvIfNoCase ^(\Accept-EncodXngl X-cept-Encodingl X(15)l ~(15)l -(15))$ ^((gzip|def  
(4,13))$ HAVE_Accept-Encoding
```

```
                RequestHeader append Accept-Encoding "gzip, deflate" env=HAVE_Accept-Encoding
```

```
        </IfModule>
```

```
    </IfModule>
```

```
    # Compress all output labeled with one of the following MIME-types
```

```
    # (for Apache versions below 2.3.7, you don't need to enable `mod_filter`
```

```
    # and can remove the `<IfModule mod_filter.c>` and `</IfModule>` lines
```

```
    # as `AddOutputFilterByType` is still in the core directives).
```

```
    <IfModule mod_filter.c>
```

```
        AddOutputFilterByType DEFLATE application/atom+xml \  
            application/javascript \  
            application/json \  
            application/rss+xml \  
            application/vnd.ms-fontobject \  
            application/x-font-ttf \  
            application/x-web-app-manifest+json \  
            application/xhtml+xml \  
            application/xml \  
            font/opentype \  
            image/svg+xml \  
            image/x-icon \
```



```
text/css \  
text/html \  
text/plain \  
text/x-component \  
text/xml
```

```
</IfModule>
```

```
</IfModule>
```

```
# -----  
# | Content transformations |  
# -----
```

```
# Prevent some of the mobile network providers from modifying the content of  
# your site: http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9.5.
```

```
# <IfModule mod_headers.c>  
#   Header set Cache-Control "no-transform"  
# </IfModule>
```

```
# -----  
# | ETag removal |  
# -----
```

```
# Since we're sending far-future expires headers (see below), ETags can  
# be removed: http://developer.yahoo.com/performance/rules.html#etags.
```

```
# `FileETag None` is not enough for every server.
```

```
<IfModule mod_headers.c>  
    Header unset ETag  
</IfModule>
```

```
FileETag None
```

```
# -----  
# | Expires headers (for better cache control) |  
# -----
```

```
# The following expires headers are set pretty far in the future. If you don't  
# control versioning with filename-based cache busting, consider lowering the  
# cache time for resources like CSS and JS to something like 1 week
```

```
# CACHE TIME IN SECONDS LIKE 600 000 OR 60 SECONDS LIKE 1 WEEK
```

```
<IfModule mod_expires.c>
```

```
ExpiresActive on  
ExpiresDefault "access plus 1 month"
```

```
# CSS
```

```
ExpiresByType text/css "access plus 1 year"
```

```
# Data interchange
```

```
ExpiresByType application/json "access plus 0 seconds"
```

```
ExpiresByType application/xml "access plus 0 seconds"
```

```
ExpiresByType text/xml "access plus 0 seconds"
```

```
# Favicon (cannot be renamed!)
```

```
ExpiresByType image/x-icon "access plus 1 week"
```

```
# HTML components (HTCs)
```

```
ExpiresByType text/x-component "access plus 1 month"
```

```
# HTML
```

```
ExpiresByType text/html "access plus 0 seconds"
```

```
# JavaScript
```

```
ExpiresByType application/javascript "access plus 1 year"
```

```
# Manifest files
```

```
ExpiresByType application/x-web-app-manifest+json "access plus 0 seconds"
```

```
ExpiresByType text/cache-manifest "access plus 0 seconds"
```

```
# Media
```

```
ExpiresByType audio/ogg "access plus 1 month"
```

```
ExpiresByType image/gif "access plus 1 month"
```

```
ExpiresByType image/jpeg "access plus 1 month"
```

```
ExpiresByType image/png "access plus 1 month"
```

```
ExpiresByType video/mp4 "access plus 1 month"
```

```
ExpiresByType video/ogg "access plus 1 month"
```

```
ExpiresByType video/webm "access plus 1 month"
```

```
# Web feeds
```

```
ExpiresByType application/atom+xml "access plus 1 hour"
```

```
ExpiresByType application/atom+xml      access plus 1 hour
ExpiresByType application/rss+xml      "access plus 1 hour"
```

Web fonts

```
ExpiresByType application/font-woff     "access plus 1 month"
ExpiresByType application/vnd.ms-fontobject "access plus 1 month"
ExpiresByType application/x-font-ttf    "access plus 1 month"
ExpiresByType font/opentype             "access plus 1 month"
ExpiresByType image/svg+xml            "access plus 1 month"
```

</IfModule>

```
# -----
# | Persistent connections |
# -----
```

```
# Allow multiple requests to be sent over the same TCP connection;
# http://httpd.apache.org/docs/current/en/mod/core.html#keepalive.
```

```
# Enable if you serve a lot of static content but, be aware of the
# possible disadvantages!
```

```
# <IfModule mod_headers.c>
#   Header set Connection Keep-Alive
# </IfModule>
```