

```
# BEGIN WordPress
<IfModule mod_rewrite.c>
RewriteEngine On
RewriteBase /
RewriteRule ^index\.php$ - [L]
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule . /index.php [L]
</IfModule>

# END WordPress
# BEGIN HTML5 Boilerplate

###
### This contains the HTML5 Boilerplate .htaccess that can be found at:
### https://github.com/h5bp/server-configs/blob/master/apache/.htaccess
###
### Added:
###   Block access to WordPress files that reveal version information.
###
### Removed:
###   Start rewrite engine:   Handled by WordPress
###   Suppress/force www:    Handled by WordPress
###   Error handling:        Handled by WordPress
###
### Anytime you update this file the .htaccess file in the root of your
### WordPress install is automatically updated with the changes whenever
### the permalinks are flushed or set (see lib/htaccess.php)
###

# Apache Server Configs v2.4.1 | MIT License
# https://github.com/h5bp/server-configs-apache

# (!) 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 requests |
# -----

# Allow cross-origin requests.
# http://code.google.com/p/html5security/wiki/CrossOriginRequestSecurity
# http://enable-cors.org/
# http://www.w3.org/TR/cors/

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

# By default allow cross-origin access to web fonts.

<IfModule mod_headers.c>
    <FilesMatch "\.(eot|otf|tt[cf]|woff)$">
        Header set Access-Control-Allow-Origin "*"
    </FilesMatch>
</IfModule>

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

# Send the CORS header for images when browsers request it.
# https://developer.mozilla.org/en-US/docs/Web/HTML/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 "\.(curl|gif|ico|jpe?g|png|svgz?|webp)$">
            SetEnvIf Origin ":" IS_CORS
            Header set Access-Control-Allow-Origin "*" env=IS_CORS
        </FilesMatch>
    </IfModule>
</IfModule>

```

```

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

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

# Force Internet Explorer to render pages in the highest available mode
# in the various cases when it may not.
# https://hsivonen.fi/doctype/ie-mode.pdf
# https://hsivonen.fi/doctype/#ie8

<IfModule mod_headers.c>
    Header set X-UA-Compatible "IE=edge"
    # `mod_headers` cannot match based on the content-type, however, this header
    # should be send only for HTML documents and not for the other resources
    <FilesMatch "\.(appcache|atom|crx|css|curl|eot|f4[abpv]|flv|gif|html|ico|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svg?
|swf|tt[cf]|txt|vcl|vtt|webapp|web[mp]|woff|xml|xpi)$">
        Header unset X-UA-Compatible
    </FilesMatch>
</IfModule>

# -----
# | Cookie setting from iframes |
# -----

# Allow cookies to be set from iframes in Internet Explorer.
# http://msdn.microsoft.com/en-us/library/ms537343.aspx
# http://www.w3.org/TR/2000/CR-P3P-20001215/

# <IfModule mod_headers.c>
#     Header set P3P "policyref=\"/w3c/p3p.xml\", CP=\"IDC DSP COR ADM DEVI TAIi PSA PSD
IVAI IVDi CONi HIS OUR IND CNT\""
# </IfModule>

# #####
# # MEDIA TYPES AND CHARACTER ENCODINGS #
# #####

```

```

# -----
# | Media types |
# -----

# Serve resources with the proper media types (formerly known as MIME types).
# http://www.iana.org/assignments/media-types/media-types.xhtml

<IfModule mod_mime.c>

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

# Data interchange
AddType application/json   json map
AddType application/ld+json jsonld

# JavaScript
# Normalize to standard type.
# http://tools.ietf.org/html/rfc4329#section-7.2
AddType application/javascript    js

# Manifest files

# If you are providing a web application manifest file (see the
# specification: http://w3c.github.io/manifest/), it is recommended
# that you serve it with the `application/manifest+json` media type.
#
# Because the web application manifest file doesn't have its own
# unique file extension, you can set its media type either by matching:
#
# 1) the exact location of the file (this can be done using a directive
#    such as `<Location>`, but it will NOT work in the `.htaccess` file,
#    so you will have to do it in the main server configuration file or
#    inside of a `<VirtualHost>` container)
#
#    e. g. :
#
#         <Location "/.well-known/manifest.json">
#             AddType application/manifest+json    json

```

```
#     </Location>
#
# 2) the filename (this can be problematic as you will need to ensure
# that you don't have any other file with the same name as the one
# you gave to your web application manifest file)
#
# e.g.:
#
#     <Files "manifest.json">
#         AddType application/manifest+json           json
#     </Files>
```

```
AddType application/x-web-app-manifest+json      webapp
AddType text/cache-manifest                       appcache manifest
```

Video

```
AddType video/mp4                               f4v f4p m4v mp4
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 media types and simply sniff
# the bytes to figure out the font type.
# http://mimesniff.spec.whatwg.org/#matching-a-font-type-pattern
```

```
# Chrome however, shows a warning if any other media types are used
# for the following fonts.
```

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

```
# Make SVGZ fonts work on the 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-xpinstall           xpi
AddType application/xml                   atom rdf rss xml
AddType image/webp                        webp
AddType image/x-icon                      cur ico
AddType text/vtt                          vtt
AddType text/x-component                  htc
AddType text/x-vcard                      vcf
```

```
</IfModule>
```

```
# -----
# | Character encodings |
# -----
```

```
# Set `UTF-8` as the character encoding for all resources served with
# the media type of `text/html` or `text/plain`.
```

```
AddDefaultCharset utf-8
```

```
# Set `UTF-8` as the character encoding for other certain resources.
```

```
<IfModule mod_mime.c>
```

```
    AddCharset utf-8 .atom .css .js .json .jsonld .rss .vtt .webapp .xml
```

```
</IfModule>
```

```
# #####
# # URL REWRITES #
# #####
```

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

```
# Turn on the rewrite engine and enable the `FollowSymLinks` option (this is
# necessary in order 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-modrewrite-not-working-on-my-site
```

```
<IfModule mod_rewrite.c>  
    # Options +FollowSymlinks  
    # Options +SymLinksIfOwnerMatch  
  
    # WordPress turns on the RewriteEngine  
    # RewriteEngine On  
  
    # WordPress sets the RewriteBase  
    # RewriteBase /  
</IfModule>
```

```
# #####  
# # SECURITY #  
# #####
```

```
# -----  
# | Clickjacking |  
# -----
```

```
# Protect website against clickjacking.
```

```
# The example below sends the `X-Frame-Options` response header with the value  
# `DENY`, informing browsers not to display the web page content in any frame.
```

```
# This might not be the best setting for everyone. You should read about the  
# other two possible values for `X-Frame-Options`: `SAMEORIGIN` & `ALLOW-FROM`.  
# http://tools.ietf.org/html/rfc7034#section-2.1
```

```
# Keep in mind that while you could send the `X-Frame-Options` header for all  
# of your site's pages, this has the potential downside that it forbids even  
# non-malicious framing of your content (e.g.: when users visit your site using  
# a Google Image Search results page).
```

```
# Nonetheless, you should ensure that you send the `X-Frame-Options` header for  
# all pages that allow a user to make a state changing operation (e.g: pages  
# that contain one-click purchase links, checkout or bank-transfer confirmation
```

```
# pages, pages that make permanent configuration changes, etc.),

# Sending the `X-Frame-Options` header can also protect your website against
# more than just clickjacking attacks: https://cure53.de/xfo-clickjacking.pdf.

# http://tools.ietf.org/html/rfc7034
# http://blogs.msdn.com/b/ieinternals/archive/2010/03/30/combating-clickjacking-with-x-
frame-options.aspx
# https://www.owasp.org/index.php/Clickjacking

# <IfModule mod_headers.c>
#     Header set X-Frame-Options "DENY"
#     <FilesMatch "\.(appcache|atom|crx|css|curl|eot|f4[abv]|flv|gif|html|icol|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[av]|opus|otf|pdf|png|rdf|rss|safari-extend|svgz?
|swf|tt[cf]|txt|vcf|vtt|webapp|web[mp]|woff|xml|xpi)$">
#         Header unset X-Frame-Options
#     </FilesMatch>
# </IfModule>

# -----
# | Content Security Policy (CSP) |
# -----

# Mitigate the risk of cross-site scripting and other content-injection attacks.

# This can be done by setting a `Content Security Policy` which whitelists
# trusted sources of content for your website.

# The example header below allows ONLY scripts that are loaded from the current
# site's origin (no inline scripts, no CDN, etc). This almost certainly won't
# work as-is for your site!

# For more details on how to craft a reasonable policy for your site, read:
# http://www.html5rocks.com/en/tutorials/security/content-security-policy/ (or
# the specification: http://www.w3.org/TR/CSP11/). Also, to make things easier,
# you can use an online CSP header generator such as: http://cspisawesome.com/.

# <IfModule mod_headers.c>
#     Header set Content-Security-Policy "script-src 'self'; object-src 'self'"
#     <FilesMatch "\.(appcache|atom|crx|css|curl|eot|f4[abv]|flv|ai|fl|html|icol|ide?
```



```

# -----
gl jsl json(1d)?
|m4[av]|manifest|map|mp4|oexl|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|tt[cf]|txt|vcf|vtt|webapp|web[mp]|woff|xml|xpi)$">
#       Header unset Content-Security-Policy
#     </FilesMatch>
# </IfModule>

# -----
# | File access |
# -----

# Block access to directories without a default document.

# You should leave the following uncommented, as you shouldn't allow anyone to
# surf through every directory on your server (which may includes rather private
# places such as the CMS's directories).

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

# -----

# Block access to all hidden files and directories with the exception of the
# visible content from within the `/.well-known/` hidden directory.

# These types of files usually contain user preferences or the preserved state
# of an utility, and can include rather private places like, for example, the
# `.git` or `.svn` directories.

# The `/.well-known/` directory represents the standard (RFC 5785) path prefix
# for "well-known locations" (e.g.: `/.well-known/manifest.json`,
# `/.well-known/keybase.txt`), and therefore, access to its visible content
# should not be blocked.

# https://www.mnot.net/blog/2010/04/07/well-known
# http://tools.ietf.org/html/rfc5785

<IfModule mod_rewrite.c>
    RewriteCond %{REQUEST_URI} "!(^/)\.well-known/([^\./]+/?.)*$" [NC]
    RewriteCond %{SCRIPT_FILENAME} !-f [O]

```

```

RewriteCond %{SCRIPT_FILENAME} !/usr/
RewriteCond %{SCRIPT_FILENAME} -f
RewriteRule "(^|/)\." - [F]
</IfModule>

# -----

# Block access to files that can expose sensitive information.

# By default, block access to backup and source files that may be left by some
# text editors and can pose a security risk when anyone has access to them.
# http://feross.org/cmsploit/

# IMPORTANT: Update the `<FilesMatch>` regular expression from below to include
# any files that might end up on your production server and can expose sensitive
# information about your website. These files may include: configuration files,
# files that contain metadata about the project (e.g.: project dependencies),
# build scripts, etc..

<FilesMatch "(^#.#|\. (bak|conf|dist|fla|in[ci]|log|psd|sh|sql|sw[op])|(\.))$" >

    # Apache < 2.3
    <IfModule !mod_authz_core.c>
        Order allow,deny
        Deny from all
        Satisfy All
    </IfModule>

    # Apache ≥ 2.3
    <IfModule mod_authz_core.c>
        Require all denied
    </IfModule>

</FilesMatch>

# Block access to WordPress files that reveal version information.

<FilesMatch "^(wp-config\.php|readme\.html|license\.txt)" >

    # Apache < 2.3
    <IfModule !mod_authz_core.c>
        Order allow,deny

```

```

    order allow,deny
    Deny from all
    Satisfy All
</IfModule>

# Apache >= 2.3
<IfModule mod_authz_core.c>
    Require all denied
</IfModule>
</FilesMatch>

# -----
# | Reducing MIME type security risks |
# -----

# Prevent some browsers from MIME-sniffing the response.

# This reduces exposure to drive-by download attacks and cross-origin data
# leaks, and should be left uncommented, especially if the web server is
# serving user-uploaded content or content that could potentially be treated
# as executable by the browser.

# http://www.slideshare.net/hasegawayosuke/owasp-hasegawa
# http://blogs.msdn.com/b/ie/archive/2008/07/02/ie8-security-part-v-comprehensive-
# protection.aspx
# http://msdn.microsoft.com/en-us/library/ie/gg622941.aspx
# http://mimesniff.spec.whatwg.org/

<IfModule mod_headers.c>
    Header set X-Content-Type-Options "nosniff"
</IfModule>

# -----
# | Reflected Cross-Site Scripting (XSS) attacks |
# -----

# (1) Try to re-enable the Cross-Site Scripting (XSS) filter built into the
#     most recent web browsers.
#
#     The filter is usually enabled by default, but in some cases it may be
#     disabled by the user. However, in Internet Explorer for example, it can
#     be disabled by the user.

```

```

#   be re-enabled just by sending the X-XSS-Protection header with the
#   value of `1`.
#
# (2) Prevent web browsers from rendering the web page if a potential reflected
#   (a.k. a non-persistent) XSS attack is detected by the filter.
#
#   By default, if the filter is enabled and browsers detect a reflected
#   XSS attack, they will attempt to block the attack by making the smallest
#   possible modifications to the returned web page.
#
#   Unfortunately, in some browsers (e.g.: Internet Explorer), this default
#   behavior may allow the XSS filter to be exploited, thereby, it's better
#   to tell browsers to prevent the rendering of the page altogether, instead
#   of attempting to modify it.
#
#   http://hackademix.net/2009/11/21/ies-xss-filter-creates-xss-vulnerabilities
#
# IMPORTANT: Do not rely on the XSS filter to prevent XSS attacks! Ensure that
# you are taking all possible measures to prevent XSS attacks, the most obvious
# being: validating and sanitizing your site's inputs.
#
# http://blogs.msdn.com/b/ie/archive/2008/07/02/ie8-security-part-iv-the-xss-filter.aspx
# http://blogs.msdn.com/b/ieinternals/archive/2011/01/31/controlling-the-internet-explorer-xss-filter-with-the-x-xss-protection-http-header.aspx
# https://www.owasp.org/index.php/Cross-site\_Scripting\_%28XSS%29

# <IfModule mod_headers.c>
#   #                                     (1)   (2)
#   Header set X-XSS-Protection "1; mode=block"
#   <FilesMatch "\.(appcache|atom|crx|css|curl|eot|f4[abpv]|flv|gif|htc|icol|jpe?
gl|js|json|1d)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safari-extended|svgz?
|swf|tt[cf]|txt|vcf|vtt|webapp|web[mp]|woff|xml|xpi)$">
#       Header unset X-XSS-Protection
#   </FilesMatch>
# </IfModule>

# -----
# | Secure Sockets Layer (SSL) |
# -----

```

```
# Rewrite secure requests properly in order to prevent SSL certificate warnings.
# E. g.: prevent `https://www.example.com` when your certificate only allows
# `https://secure.example.com`.

# <IfModule mod_rewrite.c>
#     RewriteCond %{SERVER_PORT} !^443
#     RewriteRule ^ https://example-domain-please-change-me.com%{REQUEST_URI} [R=301,L]
# </IfModule>

# -----
# | HTTP Strict Transport Security (HSTS) |
# -----

# Force client-side SSL redirection.

# If a user types `example.com` in his browser, the above rule will redirect
# him to the secure version of the site. That still leaves a window of
# opportunity (the initial HTTP connection) for an attacker to downgrade or
# redirect the request.

# The following header ensures that browser will ONLY connect to your server
# via HTTPS, regardless of what the users type in the address bar.

# http://tools.ietf.org/html/draft-ietf-websec-strict-transport-sec-14#section-6.1
# http://www.html5rocks.com/en/tutorials/security/transport-layer-security/

# IMPORTANT: Remove the `includeSubDomains` optional directive if the subdomains
# are not using HTTPS.

# <IfModule mod_headers.c>
#     Header set Strict-Transport-Security "max-age=16070400; includeSubDomains"
# </IfModule>

# -----
# | 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.

# IMPORTANT: The `ServerTokens` directive will not work in the `.htaccess` file,
```

so you will need to add the following in the main server configuration file.

ServerTokens Prod

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

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

`<IfModule mod_deflate.c>`

Force compression for mangled headers.

<https://developer.yahoo.com/blogs/ydn/pushing-beyond-gzipping-25601.html>

`<IfModule mod_setenvif.c>`

`<IfModule mod_headers.c>`

`SetEnvIfNoCase ^(\Accept-EncodXng|X-cept-Encoding|X(15)|^(15)|-(15))$`

`^((gzip|deflate)\s*,?\s*)+([X"-]{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 media 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/ld+json \`

`application/manifest+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/vtt \  
text/x-component \  
text/xml
```

```
</IfModule>
```

```
</IfModule>
```

```
# -----  
# | Content transformation |  
# -----
```

```
# Prevent mobile network providers from modifying the website's content.  
# http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9.5.
```

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

```
# -----  
# | ETags |  
# -----
```

```
# Remove `ETags` as resources are sent with far-future expires headers.  
# https://developer.yahoo.com/performance/rules.html#etags
```

```
# `FileETag None` doesn't work in all cases.
```

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

```
FileETag None
```

```
# -----  
# | Expires headers |  
# -----
```

Serve resources with far-future expires headers.

IMPORTANT: If you don't control versioning with filename-based cache

busting, consider lowering the cache times to something like one 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/ld+json "access plus 0 seconds"

ExpiresByType application/vnd.geo+json "access plus 0 seconds"

ExpiresByType application/xml "access plus 0 seconds"

ExpiresByType text/xml "access plus 0 seconds"

Favicon (cannot be renamed!) and cursor images

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/manifest+json "access plus 1 year"

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/rss+xml       "access plus 1 hour"

# Web fonts
ExpiresByType application/font-woff     "access plus 1 month"
ExpiresByType application/font-woff2    "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>

# -----
# | Filename-based cache busting |
# -----

# If you're not using a build process to manage your filename version revving,
# you might want to consider enabling the following directives to route all
# requests such as /css/style.12345.css to /css/style.css.

# To understand why this is important and a better idea than *.css?v231, read:
# http://stevesouders.com/blog/2008/08/23/revving-filenames-dont-use-querystring

# <IfModule mod_rewrite.c>
#     RewriteCond %{REQUEST_FILENAME} !-f
#     RewriteRule ^(\.+)\/(\d+)\/(css|curl|gif|icol|jpe?g|jst|png|svgz?|webp)$ $1. $3 [L]
# </IfModule>

# -----
# | File concatenation |
# -----

# Allow concatenation from within specific files.

```

```
# e.g.:
#
# If you have the following lines in a file called, for example,
# `main.combined.js`:
#
#     <!--#include file="js/jquery.js" -->
#     <!--#include file="js/jquery.timer.js" -->
#
# Apache will replace those lines with the content of the specified files.

# <IfModule mod_include.c>
#
#     <FilesMatch "\.combined\.js$">
#         Options +Includes
#         AddOutputFilterByType INCLUDES application/javascript
#         SetOutputFilter INCLUDES
#     </FilesMatch>
#
#     <FilesMatch "\.combined\.css$">
#         Options +Includes
#         AddOutputFilterByType INCLUDES text/css
#         SetOutputFilter INCLUDES
#     </FilesMatch>
#
# </IfModule>

# END HTML5 Boilerplate
```