

```

# Apache Server Configs v2.2.0 | 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 AJAX requests                                             |
# -----

# Allow 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-US/docs/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>

```

```

</IfModule>

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

# Allow access to web fonts from all domains.

<IfModule mod_headers.c>
    <FilesMatch "\.(eot|otf|ttf|cf|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 as the result of a rewrite
# when the 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 |
# -----

# Customize what Apache returns to the client in case of an error.
# http://httpd.apache.org/docs/current/mod/core.html#errordocument

ErrorDocument 404 /404.html
ErrorDocument 403 /403.html
ErrorDocument 500 /500.html
ErrorDocument 503 /503.html

# .....

```

```

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

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

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

<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 pages and not for the other resources
    <FilesMatch "\.(appache|atom|crx|css|curl|eot|f4|abv)|flv|gif|htc|icol|jpe?
gl|js|json|ld)?
|m4|av|manifest|map|mp4|oex|og|agv|opus|otf|pdf|png|rdfl|rssl|safariextz|svgz?
|swf|tt[cf]|vcf|vtt|webap|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>

# #####
# # 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 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

# 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 MIME 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 MIME 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	svgz
AddEncoding	gzip	svgz
 <i># Other</i>		
AddType	application/octet-stream	safariextz
AddType	application/x-chrome-extension	crx
AddType	application/x-opera-extension	oex
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	cur
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 .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-mod-rewrite-not-working-on-my-site

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

# -----
# | 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), and 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 would 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]
#     RewriteCond %{SERVER_ADDR} !=127.0.0.1
#     RewriteCond %{SERVER_ADDR} !=::1
#     RewriteRule ^ http://www.%{HTTP_HOST}%{REQUEST_URI} [R=301,L]
# </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[abpv]|flv|gif|html|ico|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[av]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|tt[cf]|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://html5rocks.com/en/tutorials/security/content-security-policy (or the
# specification: http://w3.org/TR/CSP). 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[abpv]|flv|gif|html|icol|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|tt[cf]|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 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 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|config|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>
```

```
# -----
# | 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"
```

```

    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 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"
#     # "1" means "block" and "0" means "do not block"

```

```

# <FilesMatch "\.(appcache|atom|crx|css|curl|eot|f4l|abp|flv|fl|htcl|icol|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oexl|og[av]|opusl|otfl|pdf|pngl|rdfl|rssl|safar|extzl|svgz?
|swfl|tt[cf]|vcfl|vttl|webappl|web[mp]|woffl|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.

# 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-Encoding|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 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/ld+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 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 set Cache-Control "no-transform"
# </IfModule>
```

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

```
# Remove `ETags` as resources are sent with far-future expires headers.
# http://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 |
# -----

# 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 such as style sheets and JavaScript
# files 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/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/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/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+)\. (js|css|png|jpe?g|gif)$ $1. $3 [L]
# </IfModule>
```

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

# Allow concatenation from within specific style sheets and JavaScript files.

# e.g.:
#
# If you have the following content in a file
#
#     <!--#include file="libs/jquery.js" -->
#     <!--#include file="plugins/jquery.timer.js" -->
#
# Apache will replace it with the content from the specified files.

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