

```

# 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>
```

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

```
# Allow access to web fonts from all domains.
```

```
<IfModule mod_headers.c>  
<FilesMatch "\.(eot|otf|tt[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
```

```
# #####  
# # 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 "\.(appcache|atom|crx|css|curl|eot|f4[abpv]|flv|gif|html|ico|jpe?g|js|json(1d)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svg?
|swf|tt[cf]|vcf|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>

# #####
# # 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

# Other
```

```
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 /

# add trailing slash
RewriteCond %{REQUEST_FILENAME} !-f
RewriteRule .*[^\/]$ /$0/ [L,R=301]

# Changes any text matching 'index' into 'index.php' for the server
# So if someone enters the url /index it'll send to the server index.php
#           pattern  replace  flags
# RewriteRule  index  index.php  [L]

# Make sure that the url is not for /index.php! Otherwise we redirect to ourself
RewriteCond %{SCRIPT_FILENAME} ^(!.*\./index\.php.*$)(?!.*\./site.*$)(.*)$

# Match anything from the start of the string to the first non-character char
# replace that with the index.php url
# Any string past the initial / will be added as $_GET['extra']
# e.g. p/0ver93 will convert to index.php?page=p&extra=0ver93
RewriteRule (.*) index.php?page=$1 [L,NS]
</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[agv]|opus|otf|pdf|png|rdf|rss|safari-extend|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|ico|jpe?
#     |js|json|1d)?
#     |m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
#     |swf|tt[cf]|vcl|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 user browsers from MIME sniffing the contents

```

```
# Prevent some browsers from mIRC-sniffing the response.

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

# 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 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|ico|jpe?
gl|js|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|tt[cf]|vcl|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.

# 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/ymdn/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

# -----
# | Caching |
# -----

<FilesMatch "\.(woff|png)$">
Header set Cache-Control "max-age=290304000, public"
</FilesMatch>

<FilesMatch "\.(txt|xml|js|css)$">
Header set Cache-Control "max-age=604800, public"
</FilesMatch>

# -----
# | 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\.is$">
```

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

# Use PHP55 as default
AddHandler application/x-httpd-php55 .php
<IfModule mod_suphp.c>
suPHP_ConfigPath /opt/php55/lib
</IfModule>
```