# Apache Server Configs v1.1.0 / 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
# Enable cross-origin AJAX requests.
# http://enable-cors.org/

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

# Enable CORS-enabled images

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

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

# 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

# You can customize what Apache returns to the client in case of an error (see http://httpd.apache.org/docs/current/mod/core.html#errorDocument), e.g.:

ErrorDocument 404 /404.html
# 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.

```<IfModule mod_headers.c>
  Header set X-UA-Compatible "IE=edge"
  # `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 "\.(appcachelfcrxlcssl eotl gifl htclicol jpe?gljslm4alenvl manifestl mp4l oexl ogal ogvl ogvl otfl pdfl pngl safarilextzlsvgz?ltsfvlcfl webappl webml webpl woffl xmlx|xpi)"">
    Header unset X-UA-Compatible
  </FilesMatch>
</IfModule>```

# Cookie setting from iframes

# Allow cookies to be set from iframes in IE.

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

# Screen flicker

# Stop screen flicker in IE on CSS rollovers (this only works in combination with the `ExpiresByType` directives for images from below).

```# BrowserMatch "MSIE" brokenvary=1
# BrowserMatch "Mozilla/4.10-9\{2\}" brokenvary=1
# BrowserMatch "Opera" !brokenvary
# SetEnvIf brokenvary 1 force-no-vary```
# # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
# 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
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/14655840545
AddType image/svg+xml svg svgz
AddEncoding gzip svgz
```bash
# Other
AddType application/octet-stream safarientz
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-xpi install 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>

# Code generated by Apache Config Generator (developer.redhat.com/docs/manuals/Apache)
#
# Binary path
#------------------------------------------
# /usr/sbin/nginx -v

# Force UTF-8 for certain file formats.
<IfModule mod_mime.c>
    AddCharset utf-8 .atom .css .js .json .rss .vtt .webapp .xml
</IfModule>

# Code generated by Apache Config Generator (developer.redhat.com/docs/manuals/Apache)
#
# Server name
#---------------------------------------------------------------
# NameVirtualHost 127.0.0.1
# NameVirtualHost ::1
# NameVirtualHost [::1]
# ServerName 127.0.0.1
# ServerName ::1
# ServerName [::1]
# Hostname 127.0.0.1
# Hostname ::1
# Hostname [::1]
# DomainName 127.0.0.1
# DomainName ::1
# DomainName [::1]
```

# 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>

# html5 pushstate (history) support:
<IfModule mod_rewrite.c>
  RewriteEngine On
  RewriteCond %REQUEST_FILENAME} !-f
  RewriteCond %REQUEST_FILENAME} !-d
  RewriteCond %REQUEST_URI} !index
  RewriteRule (.*) index.php [L]
</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), 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

```html
<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.

```html
# <IfModule mod_rewrite.c>
#  RewriteCond %{HTTPS} !=on
#  RewriteCond %{HTTP_HOST} !^www\.(.+)$ [NC]
#  RewriteCond %{HTTP_HOST} !=localhost [NC]
#  RewriteCond %{HTTP_HOST} !=127.0.0.1
#  RewriteRule ^ http://www. %{HTTP_HOST} %{REQUEST_URI} [R=301,L]
# </IfModule>
```

# SECURITY

# You can mitigate the risk of cross-site scripting and other content-injection attacks by setting a Content Security Policy which whitelists trusted sources of content for your site.

# 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!
# To get all the details you'll need to craft a reasonable policy for your site, read: http://html5rocks.com/en/tutorials/security/content-security-policy (or see the specification: http://w3.org/TR/CSP).

# <IfModule mod_headers.c>
#   Header set Content-Security-Policy "script-src 'self'; object-src 'self'
#   <FilesMatch "\.\.(appcache crx! cssl eot! gif! htc! ic! jpe? 
#     js! m4a! m4v! manifest! mp4! oex! ogg! ogv! otfl! pdf! png! safar! ext! svgz? 
#     html! vcf! webap! webm! webpl! woff! xml! xpi)">
#     Header unset Content-Security-Policy
#   </FilesMatch>
# </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| flat| incl| ini| log| psd| sh| sql| sw[op]))|")"$">
  Order allow, deny
  Deny from all
  Satisfy All
</FilesMatch>

# Secure Sockets Layer (SSL)

# Rewrite secure requests properly 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 oppor-
# tunity (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.

# (!) 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

#******************************************************************************
# # WEB PERFORMANCE
#******************************************************************************

# 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/json-draft-01 \ 
</IfModule>
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

# `FileETag None` is not enough for every server.
<IfModule mod_headers.c>
    Header unset ETag
</IfModule>
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/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>

# 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|gif|jpg|svg))$ $1 $3 [L]
# </IfModule>

# Allow concatenation from within specific CSS and JS files, e.g.
Inside of `script.combined.js` you could have

```c
#include "libs/jquery.js"
#include "plugins/jquery.idleTimer.js"
```

and they would be included into this single file.

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

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Persistent connections

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Allow multiple requests to be sent over the same TCP connection:


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

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