# 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
# Enforce cross-origin XMLHttpRequests.
# 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.
# http://developer.mozilla.org/en/CORS_Enabled_Image

<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>
# Web fonts access
# Allow access from all domains for web fonts

<IfModule mod_headers.c>
  <FilesMatch "\.eot|\.font\.css|\.otf|\.ttc|\.ttf|\.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#error_document), 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 "\.\.(appcache|crx|css|eot|gif|htc|ico|jpeg|gl|js|m4a|m4v|manifest|m4v|mp4|ogx|oggl|ogv|otf|pdf|png|safariextz|svgz|ttf|vcf|webapp|webm|webpl|woff|xml|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 US 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/4.0-9.1(2)" brokenvary=1
BrowserMatch "Opera" !brokenvary
SetEnvIf brokenvary ! 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/14855840545
    AddType image/svg+xml svg svgz
    AddEncoding gzip svgz
# 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-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-on-my-site

<IfModule mod_rewrite.c>

    Options +FollowSymlinks
    # Options +SymLinksIfOwnerMatch
    RewriteEngine On
    # RewriteBase /

</IfModule>

# Supressing / 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]
#   RewriteCond %{HTTP_HOST} !=localhost [NC]
#   RewriteCond %{HTTP_HOST} !=127.0.0.1
#   RewriteRule ^ http://www.%(HTTP_HOST)%(REQUEST_URI) [R=301,L]
# </IfModule>

# 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 "\.\(appcache|crx|css|eot|gif|htc|ico|jpeg\|jpe\|jsl|m4a|m4v\|manifest|mp4\|oex|ogal|oggl|ogv|otf|pdf|png|safariextz|svgz\|ttf|vcl|webapp|webm|webpl|woff|xml|xpl\)"">
# 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 "(\#.*\.|\(bak\|config\|dist\|fla\|incl\|incl\|log\|psd\|shl\|sql\|sw[op]]\)|"">
    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`.

```c
<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 user types in the address bar.


(!) Remove the `includeSubDomains` optional directive if the subdomains are not using HTTPS.

```c
<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 #

<IfModule mod_deflate.c>

# Force compression for mangled headers.

<IfModule mod_setenvif.c>

<IfModule mod_headers.c>
    SetEnvIfNoCase "^Accept-Encoding! X-cept-Encoding! X{15}\"(15)\"-{15}\"$\n    "^([gzipl 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/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 \
    */*
# 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>

# 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>

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.
<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 year"

# 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 year"
ExpiresByType image/jpeg "access plus 1 year"
ExpiresByType image/png "access plus 1 year"
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 year"
ExpiresByType application/vnd.ms-fontobject "access plus 1 year"
ExpiresByType application/x-font-ttf "access plus 1 year"
ExpiresByType font/opentype "access plus 1 year"
ExpiresByType image/svg+xml "access plus 1 year"

</IfModule>

# -----------------------------------------------
# / Cache control headers
# -----------------------------------------------

<IfModule mod_headers.c>
  <filesMatch ".(gif|png|jpg|jpeg|svgs|svgz|woff)"
    Header append Cache-Control "public"
  </filesMatch>
</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|jpg|gif)$ $1. $3 [L]
</IfModule>

# -----------------------------------------------
# / File concatenation
# -----------------------------------------------
# Allow concatenation from within specific CSS and JS files, e.g.:
# Inside of `script.combined.js` you could have
# <!--#include file="libs/jquery.js" -->
# <!--#include file="plugins/jquery.idletimer.js" -->
# and they would be included into this single file.

# <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>

# ==============================================================
# Persistent connections
# ==============================================================

# 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!

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