

```

# ☺
# Apache Server Configs for [Project name]
#

# #####
# CROSS-ORIGIN
# #####

# -----
# Cross-origin requests
# -----

# Allow cross-origin requests.
#
# https://developer.mozilla.org/en-US/docs/Web/HTTP/Access_control_CORS
# http://enable-cors.org/
# http://www.w3.org/TR/cors/

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

# -----
# Cross-origin images
# -----

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

# -----
# Cross-origin web fonts
# -----

<IfModule mod_headers.c>
  <FilesMatch "\.(eot|otf|ttf|woff|woff2)$">

```

```

<FilesMatch \.(eot|otf|ttf|cf|woff|z?)$ >
    Header set Access-Control-Allow-Origin "*"
</FilesMatch>
</IfModule>

# -----
# Cross-origin resource timing
# -----

# Allow cross-origin access to the timing information for all resources.
#
# If a resource isn't served with a `Timing-Allow-Origin` header that
# would allow its timing information to be shared with the document,
# some of the attributes of the `PerformanceResourceTiming` object will
# be set to zero.
#
# http://www.w3.org/TR/resource-timing/
# http://www.stevesouders.com/blog/2014/08/21/resource-timing-practical-tips/

# <IfModule mod_headers.c>
#   Header set Timing-Allow-Origin: "*"
# </IfModule>

# #####
# ERRORS
# #####

# -----
# Error prevention
# -----

Options -MultiViews

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

# -----
# Document modes
# -----

```

```

<IfModule mod_headers.c>
    Header set X-UA-Compatible "IE=edge"
    <FilesMatch "\.
(appache|atom|bbaw|bml|crl|css|curl|eot|f4[abpv]|flv|geojson|gif|htcl|icol|jpe?
gl|jsl|json|ld)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|topojson|tt[cf]|txt|vcard|vcf|vtt|webapp|web[mp]|woff2?|xloc|xml|xpi)$">
        Header unset X-UA-Compatible
    </FilesMatch>
</IfModule>

# -----
# Iframes cookies
# -----

# 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
# -----

<IfModule mod_mime.c>

    # Data interchange
    AddType application/json          json map topojson
    AddType application/ld+json       jsonld
    AddType application/vnd.geo+json  geojson
    AddType application/xml           atom rdf rss xml

```

JavaScript

AddType application/javascript js

Manifest files

AddType application/x-web-app-manifest+json webapp

AddType text/cache-manifest appcache manifest

Media files

AddType audio/mp4 f4a f4b m4a

AddType audio/ogg oga ogg opus

AddType image/bmp bmp

AddType image/webp webp

AddType video/mp4 f4v f4p m4v mp4

AddType video/ogg ogv

AddType video/webm webm

AddType video/x-flv flv

AddType image/svg+xml svg svgz

AddType image/x-icon cur ico

Web fonts

AddType application/font-woff woff

AddType application/font-woff2 woff2

AddType application/vnd.ms-fontobject eot

AddType application/x-font-ttf ttc ttf

AddType font/opentype otf

Other

AddType application/octet-stream safariextz

AddType application/x-bb-appworld bbaw

AddType application/x-chrome-extension crx

AddType application/x-opera-extension oex

AddType application/x-xpinstall xpi

AddType text/vcard vcard vcf

AddType text/vnd.rim.location.xloc xloc

AddType text/vtt vtt

AddType text/x-component htc

</IfModule>

Character encodings

```
# -----

AddDefaultCharset utf-8
<IfModule mod_mime.c>
    AddCharset utf-8 .atom \
        .bbaw \
        .css \
        .geojson \
        .js \
        .json \
        .jsonld \
        .rdf \
        .rss \
        .topojson \
        .vtt \
        .webapp \
        .xloc \
        .xml
</IfModule>

# #####
# URL REWRITES
# #####

# -----
# Rewrite engine
# -----

# If your web host doesn't allow the `FollowSymlinks` option,
# you need to comment it out or remove it, and then uncomment
# the `Options +SymLinksIfOwnerMatch` line, but be aware of
# the performance impact.
# http://httpd.apache.org/docs/current/misc/perf-tuning.html#symlinks
#
# Some cloud hosting services will require you set `RewriteBase`.
# http://www.rackspace.com/knowledge\_center/frequently-asked-question/why-is-mod-rewrite-not-working-on-my-site
#
# Depending on how your server is set up, you may also need to
# use the `RewriteOptions` directive to enable some options for
# the rewrite engine.
```

```
# https://httpd.apache.org/docs/current/mod/mod\_rewrite.html#rewriteoptions
```

```
<IfModule mod_rewrite.c>
```

```
    RewriteEngine On
```

```
    Options +FollowSymlinks
```

```
    # Options +SymLinksIfOwnerMatch
```

```
    # RewriteBase /
```

```
    # RewriteOptions <options>
```

```
</IfModule>
```

```
# -----
```

```
# Forcing `https://`
```

```
# -----
```

```
# Redirect from the `http://` to the `https://` version of the URL.
```

```
# https://wiki.apache.org/httpd/RewriteHTTPToHTTPS
```

```
# <IfModule mod_rewrite.c>
```

```
# RewriteEngine On
```

```
# RewriteCond %{HTTPS} !=on
```

```
# RewriteRule ^(.*)$ https://%{HTTP_HOST}/$1 [R=301,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), 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`.
```

```
#
```

```
# (!) 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 content of  
# the web page in any frame.  
#  
# This might not be the best setting for everyone. You should read  
# about the other two possible values the `X-Frame-Options` header
```

```
# field can have: `SAMEORIGIN` and `ALLOW-FROM`.
# https://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 website's pages, this has the potential downside that
# it forbids even non-malicious framing of your content (e.g.: when
# users visit your website 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.
#
# https://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"
#   # `mod_headers` cannot match based on the content-type, however,
#   # the `X-Frame-Options` response header should be send only for
#   # HTML documents and not for the other resources.
#   <FilesMatch "\.
(appache|atom|bbaw|bml|crl|css|curl|eot|f4[abpv]|flv|geo|json|gif|htcl|icol|jpe?
gl|jsl|json(1d)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rssl|safari|ext|svg?
|swf|topo|json|tt[cf]|txt|vcard|vcf|vtt|webappl|web[mp]|woff2?|x|ocl|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 website's origin (no inline scripts, no CDN, etc). That almost
# certainly won't work as-is for your website!
#
# For more details on how to craft a reasonable policy for your website,
# read: http://www.html5rocks.com/en/tutorials/security/content-security-policy/
# (or the specification: http://www.w3.org/TR/CSP1/). 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'"
#   # `mod_headers` cannot match based on the content-type, however,
#   # the `Content-Security-Policy` response header should be send
#   # only for HTML documents and not for the other resources.
#   <FilesMatch "\.
(appache|atom|bbaw|bml|crl|css|curl|eot|f4[abpv]|flv|geo|json|gif|htcl|icol|jpe?
gl|jsl|json(1d)?
|m4[av]|manifest|map|mp4|oex|og[agv]|opus|otf|pdf|png|rdf|rssl|safari|extz|svgz?
|swf|topo|json|tt[cf]|txt|vcard|vcf|vtt|webappl|web[mp]|woff2?|x1|ocl|xml|xpi)$">
#       Header unset Content-Security-Policy
#   </FilesMatch>
# </IfModule>
```

```
# -----
# File access
# -----
```

```
# Block access to directories without a default document.
```

```
<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
```

```

# The visible content from within the /.well-known/ through directory,
#
# 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
# https://tools.ietf.org/html/rfc5785
<IfModule mod_rewrite.c>
    RewriteCond %{REQUEST_URI} "!(^/)\.well-known/([^\./]+/?.+)$" [NC]
    RewriteCond %{SCRIPT_FILENAME} -d [OR]
    RewriteCond %{SCRIPT_FILENAME} -f
    RewriteRule "(^/)\. " - [F]
</IfModule>

# Block access to files that can expose sensitive information.
<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>

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

# Force client-side SSL redirection.
#
# If a user types `example.com` in their browser, even if the server
# redirects them to the secure version of the website, that still leaves
# a window of opportunity (the initial HTTP connection) for an attacker
# to downgrade or redirect the request.

```

```

# 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 browser's
# address bar.
#
# (!) Remove the `includeSubDomains` optional directive if the website's
# subdomains are not using HTTPS.
#
# http://www.html5rocks.com/en/tutorials/security/transport-layer-security/
# https://tools.ietf.org/html/draft-ietf-websec-strict-transport-sec-14#section-6.1
# http://blogs.msdn.com/b/ieinternals/archive/2014/08/18/hsts-strict-transport-security-
attacks-mitigations-deployment-https.aspx

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

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

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

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

<IfModule mod_headers.c>
    Header set X-XSS-Protection "1; mode=block"
    <FilesMatch "\.
(appache|atom|bbaw|bml|crl|css|curl|eot|f4|abpv|flv|geojson|gif|htcl|icol|jpe?
|j|j|json|ld)?
|m4|av|manifest|map|mp4|oex|og|agv|opus|otf|pdf|png|rdf|rss|safariextz|svgz?
|swf|topojson|tt|cf|txt|vcard|vcf|vtl|webapp|web|mp|woff2?|x|oc|x|l|xpi)$">
        Header unset X-XSS-Protection
    </FilesMatch>
</IfModule>

```

```

# -----
# Increase session cookie security
# -----

<IfModule php5_module>
    php_value session.cookie_httponly true
</IfModule>

# #####
# WEB PERFORMANCE
# #####

# -----
# Compression
# -----

<IfModule mod_deflate.c>
    <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>
    <IfModule mod_filter.c>
        AddOutputFilterByType DEFLATE "application/atom+xml" \
            "application/javascript" \
            "application/json" \
            "application/ld+json" \
            "application/manifest+json" \
            "application/rdf+xml" \
            "application/rss+xml" \
            "application/schema+json" \
            "application/vnd.geo+json" \
            "application/vnd.ms-fontobject" \
            "application/x-font-ttf" \
            "application/x-javascript" \
            "application/x-web-app-manifest+json" \
            "application/xhtml+xml" \
            "application/xml" \
            "font/eot" \
            ..

```

```
"font/opentype" \
"image/bmp" \
"image/svg+xml" \
"image/vnd.microsoft.icon" \
"image/x-icon" \
"text/cache-manifest" \
"text/css" \
"text/html" \
"text/javascript" \
"text/plain" \
"text/vcard" \
"text/vnd.rim.location.xloc" \
"text/vtt" \
"text/x-component" \
"text/x-cross-domain-policy" \
"text/xml"
```

```
</IfModule>
```

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

```
    AddEncoding gzip          svgz
```

```
</IfModule>
```

```
</IfModule>
```

```
# -----
# Content transformations
# -----
```

```
# (!) If you are using `mod_pagespeed`, please note that setting
# the `Cache-Control: no-transform` response header will prevent
# `PageSpeed` from rewriting `HTML` files, and, if the
# `ModPagespeedDisableRewriteOnNoTransform` directive isn't set
# to `off`, also from rewriting other resources.
#
# https://developers.google.com/speed/pagespeed/module/configuration#notransform
```

```
<IfModule mod_headers.c>
```

```
    Header set Cache-Control "no-transform"
```

```
</IfModule>
```

```
# -----
# ETag removal
# -----
```

```

<IfModule mod_headers.c>
    Header unset ETag
</IfModule>
FileETag None

# -----
# Expires headers
# -----

# (!) If you don't control versioning with filename-based
# cache busting, you should consider lowering the cache times
# to something like one week.
#
# https://httpd.apache.org/docs/current/mod/mod_expires.html

<IfModule mod_expires.c>

    ExpiresActive on
    ExpiresDefault "access plus 1 month"

    # CSS
    ExpiresByType text/css "access plus 1 year"

    # Data interchange
    ExpiresByType application/atom+xml "access plus 1 hour"
    ExpiresByType application/rdf+xml "access plus 1 hour"
    ExpiresByType application/rss+xml "access plus 1 hour"
    ExpiresByType application/json "access plus 0 seconds"
    ExpiresByType application/ld+json "access plus 0 seconds"
    ExpiresByType application/schema+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/vnd.microsoft.icon "access plus 1 week"
    ExpiresByType image/x-icon "access plus 1 week"

    # HTML
    ExpiresByType text/html "access plus 0 seconds"

```

JavaScript

```
ExpiresByType application/javascript "access plus 1 year"  
ExpiresByType application/x-javascript "access plus 1 year"  
ExpiresByType text/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 files

```
ExpiresByType audio/ogg "access plus 1 month"  
ExpiresByType image/bmp "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 image/svg+xml "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 fonts

```
ExpiresByType application/vnd.ms-fontobject "access plus 1 month"  
ExpiresByType font/eot "access plus 1 month"  
ExpiresByType font/opentype "access plus 1 month"  
ExpiresByType application/x-font-ttf "access plus 1 month"  
ExpiresByType application/font-woff "access plus 1 month"  
ExpiresByType application/x-font-woff "access plus 1 month"  
ExpiresByType font/woff "access plus 1 month"  
ExpiresByType application/font-woff2 "access plus 1 month"
```

Other

```
ExpiresByType text/x-cross-domain-policy "access plus 1 week"
```

</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$" >
#     Options +Includes
#     AddOutputFilterByType INCLUDES application/javascript \
#                                     application/x-javascript \
#                                     text/javascript
#     SetOutputFilter INCLUDES
#   </FilesMatch>
#   <FilesMatch "\.combined\.css$" >
#     Options +Includes
#     AddOutputFilterByType INCLUDES text/css
#     SetOutputFilter INCLUDES
#   </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 `/style.12345.css` to `/style.css`.
#
# To understand why this is important and even a better solution than
# using something like `*.css?v231`, please see:
# http://www.stevesouders.com/blog/2008/08/23/revving-filenames-dont-use-querystring/

# <IfModule mod_rewrite.c>
```



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

# -----
# Persistent connections
# -----

# Allow multiple requests to be sent over the same TCP connection:
# http://httpd.apache.org/docs/current/en/mod/core.html#keepalive.

# 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>
```