HK2 CSP (Content Security Policy)

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Introduction

This Module **HK2 CSP Whitelisting** is for Magento version 2.3.5 or above & It whitelist some of the major urls like *Cloudflare*, *Google Analytics*, *Google Fonts*, *Fontawesome*, *Addthis*, *Googleapis*, *Facebook Graph*, *Pinterest*, *Vimeo*, *Twitter*, *NitroPack/NitroCDN*, *Trust Pilot* & ContentSquare.

One can disable Magento 2 CSP. However, Disabling results in more possibilities of attacks on the Magento store. (CSP) are a powerful tool to mitigate against **Cross Site Scripting (XSS)** and related attacks.

When does this type of error occur?

- If you have added any external JS Script Link in your theme/module.
- If you added an external Stylesheet Link in your theme/module.
- If you added an external Iframe in your theme/module.

If you face these types of CSP Errors or the error mentioned in the screenshot?

© [Report Only] Refused to frame 'https://s7.addthis.com/' because it violates the following Content Security Policy directive: "frame-src 'self'

geostag.cardinalcommerce.com geo.cardinalcommerce.com leafstag.cardinalcommerce.com leafstag.cardinalcommerce.com centinelapistag.cardinalcommerce.com centinelapistag.cardinalcommerce.com secure.authorize.net twww.paypal.com www.sandbox.paypal.com player.vimeo.com ".amazon.co.uk ".amazon.co.uf ".amazon.jr ".amazon.jr ".amazon.jr ".amazon.jr ".amazon.jr ".amazon.co.j ".amazon.co.j" p. ".payments-amazon.co.jr ".payments-amazon.gr. r ".payments-amazon.co.gr. ".payments-amazon.co.gr. ".payments-amazon.co.gr. ".payments-amazon.co.gr. ".payments-amazon.co.gr. ".payments-amazon.gr. r ".payments-amazon.gr. r ".payments-amazon.gr. r ".payments-amazon.gr. r ".payments-amazon.gr. policy directive: "script-src assets.adobedtn.com geostag.cardinalcommerce.com leafstag.cardinalcommerce.com leafagi.cardinalcommerce.com leafagi.cardinalcommerce.com songbird.cardinalcommerce.com includestest.ccdc02.com www.googleadservices.com www.google-analytics.com secure.authorize.net test.authorize.net www.paypal.com www.sandbox.paypal.com www.paypal.com www.paypal.com s.ytimg.com video.google.com vineo.com www.yimeo.com ".payments-amazon.gr. payments-amazon.gr. payment

Errors Like :-

- Refused to Frame https://demosite.com
- Refused to Load the Script https://demosite.com
- Etc, CSP Policy Issues
- Violate Content Security Policy Directive

The above errors can be sorted out by using this module. But don't forget to check whether the problematic url is listed below on the Whitelist URLs Section. If not, Please Check the **Section** - **How Does The Extension Work** else this module won't work in your case. This Module does not disable the CSP Policy, rather it whitelists some of the common urls which are mentioned below.

Installation Guide

- 1. Setup:- Extract the zip folder in app/code
- 2. Run:- php bin/magento module:enable HK2_Csp
- 3. Run:- php bin/magento setup:upgrade from your magento directory

Once Installed, You can check in **Magento Frontend - Browser Console**, Whether you are facing any more CSP Policy Issues.

Note:- Please check the URLs which are whitelisted below. This Module does not disable the CSP Policy, rather it whitelists some of the common urls which are mentioned below.

How Does The Extension Work?

You can add a domain to the whitelist for a policy (like script-src, style-src, font-src and others) by updating the csp_whitelist.xml present in /app/code/HK2/Csp/etc/csp_whitelist.xml. Please only create rules for URLs that you have verified as safe & safe for your Magento Store. Ensure that you use a unique "id" (e.g. the URL) for each entry within its group.

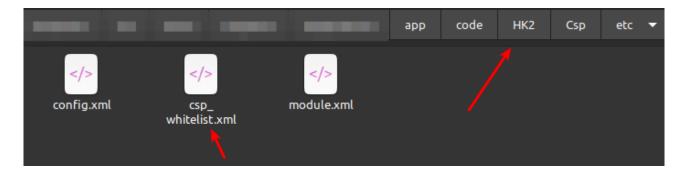
Below screenshot describes Policy Name & Description.



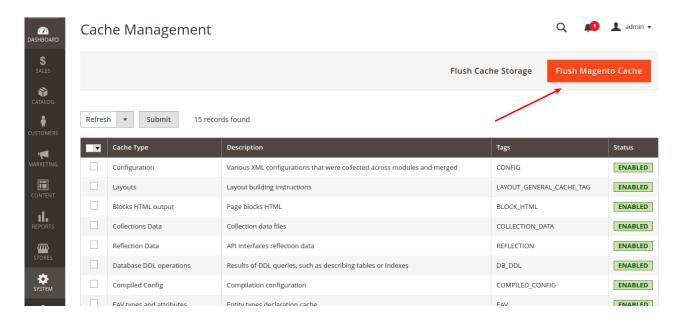
How to add your own URL for Whitelisting in CSP?

1. How to add your own URL for Whitelisting? -

Step-1 Open <magento_root>app/code/HK2/Csp/etc/csp_whitelist.xml from your editor.



- Now you have to add the url which you want to be whitelisted. Add the URL in the specific
 Policy, else it wont work. For Example:- Add your script url to be whitelisted in script-src &
 Stylesheet Src in style-src. For complete policy list you can visit this link:https://developer.adobe.com/commerce/php/development/security/content-security-policies/#configure-csps-for-your-custom-codeextensiontheme
- 3. Once done, Save the file and Clean the Cache from Admin System Tools Cache Management



Once done, You can see your url has been whitelisted. In case of any error, try checking in a private tab or start from Step-1

For more information you can check the following link on how to add links to whitelist

• How to Add Domain in Whitelisting:-

https://developer.adobe.com/commerce/php/development/security/content-security-policies/#add-a-domain-to-the-whitelist

• Complete Information on CSP:-

https://developer.adobe.com/commerce/php/development/security/content-security-policies

• Types of CSP & Policy Name & Description:-

https://developer.adobe.com/commerce/php/development/security/content-security-policies/#configure-csps-for-your-custom-codeextensiontheme

Screenshot of the *app/code/HK2/Csp/etc/csp_whitelist.xml*. Where you can add your whitelist urls.

```
<?xml version="
<!--
/**
    *@Info
    *@author
    *@copyright
    *@package
    *@version
*/
-->
        <?xml version="1.0"?>
Whitelisting CSP
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HK2_Csp
        -
<policies>
                      <policy id="script-src">
                                    lues>

value id="addthis.com" type="host">*.addthis.com</value>

value id="ajaxgoogleapis" type="host">*.googleapis.com</value>

value id="cloudflare" type="host">*.cloudflare.com</value>

value id="fontawesome.type="host">*.google.com</value>

value id="google" type="host">*.google.com</value>

value id="google analytics" type="host">*.google.analytics.com</value>

value id="google-analytics" type="host">*.google.analytics.com</value>

value id="google-analytics" type="host">*.gaph.facebook.com</value>

value id="gstatic" type="host">*.gstatic.com</value>

value id="dofthis.moatads.com" type="host">*.moatads.com

value id="trustpilot" type="host">*.trustpilot.com</value>

value id="vimeo" type="host">*.vimeo.com

value id="vimeo" type="host">*.vimeo.com

value id="widgets-pinterest" type="host">*.vimeo.com

values
                               <values>
                     </values>
                              </values>
                      </policy>
<policy id="img-src">
                      43
44
45
46
47
48
49
50
51
52
53
54
55
56
61
62
63
64
65
66
67
68
69
70
71
72
                               <values>
                               <values>
    <value id="cloudflare" type="host">*.cloudflare.com</value>
    <value id="paypal" type="host">*.paypal.com</value>
    <value id="twitter.com" type="host">*.twitter.com</value>
</values>
                       </policy>
<policy id="font-src">
                              <values>
                                    </values>
                      73
74
                       </policy>
        </policies>
</csp_whitelist>
```

Features

- 1. Fully Customizable as per your Store needs. Please read the above documentation on how to add your own URL for CSP Whitelisting.
- 2. Simple, 100% Open Source & Free.
- 3. CSP is not disabled rather specific listed urls are whitelisted, keeping your Magento Store Safe.

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Support - Bug Reporting

For Bug reporting, Please open an issue at https://github.com/basantmandal/HK2-ScrollTop/issues on GitHub. When filing a bug remember that the better written the bug is, the more likely it is to be fixed.

In case of any feedback or any feature additions feel free to contact at support@hashtagkitto.co.in

Whitelisted Urls

Some of the Default URL Whitelisted in module HK2 CSP

- Addthis (moatads is a part of Addthis)
- Cloudflare
- Facebook Graph
- Fontawesome
- Google Analytics, Google Fonts, Gstatic, Google Tag Manager & Googleapis
- Pinterest
- Trust Pilot
- Twitter
- Vimeo
- ContentSquare

Complete List of URL Whitelisted

scripts-src whitelisted

- *.addthis.com
- *.googleapis.com
- *.cloudflare.com
- *.fontawesome.com
- *.google.com
- *.google-analytics.com
- googletagmanager.com
- graph.facebook.com
- *.gstatic.com
- *.moatads.com
- *.trustpilot.com
- *.vimeo.com
- Widgets.pinterest.com
- *.contentsquare.net

style-src whitelisted

- *.cloudflare.com
- *.fontawesome.com
- *.googleapis.com
- *.gstatic.com
- *.twitter.com

img-src whitelisted

- *.cloudflare.com
- data:
- *.google-analytics.com
- *.paypal.com
- *.twitter.com
- *.vimeocdn.com
- *.contentsquare.net

connect-src whitelisted

- *.cloudflare.com
- *.paypal.com
- *.twitter.com

font-src whitelisted

- *.cloudflare.com
- *.fontawesome.com
- *.googleapis.com</value>
- *.gstatic.com
- *.twitter.com

frame-src whitelisted

- *.addthis.com
- *.google.com
- *.trustpilot.com
- *.twitter.com
- *.vimeo.com