

Defer Parsing of JavaScript Pro for Magento 2

User Guide



Table of Content

1. [Extension Installation Guide](#)
2. [Configuration](#)
3. [Before Implementation of Defer Parsing of JavaScript](#)
4. [After Implementation of Defer Parsing of JavaScript](#)

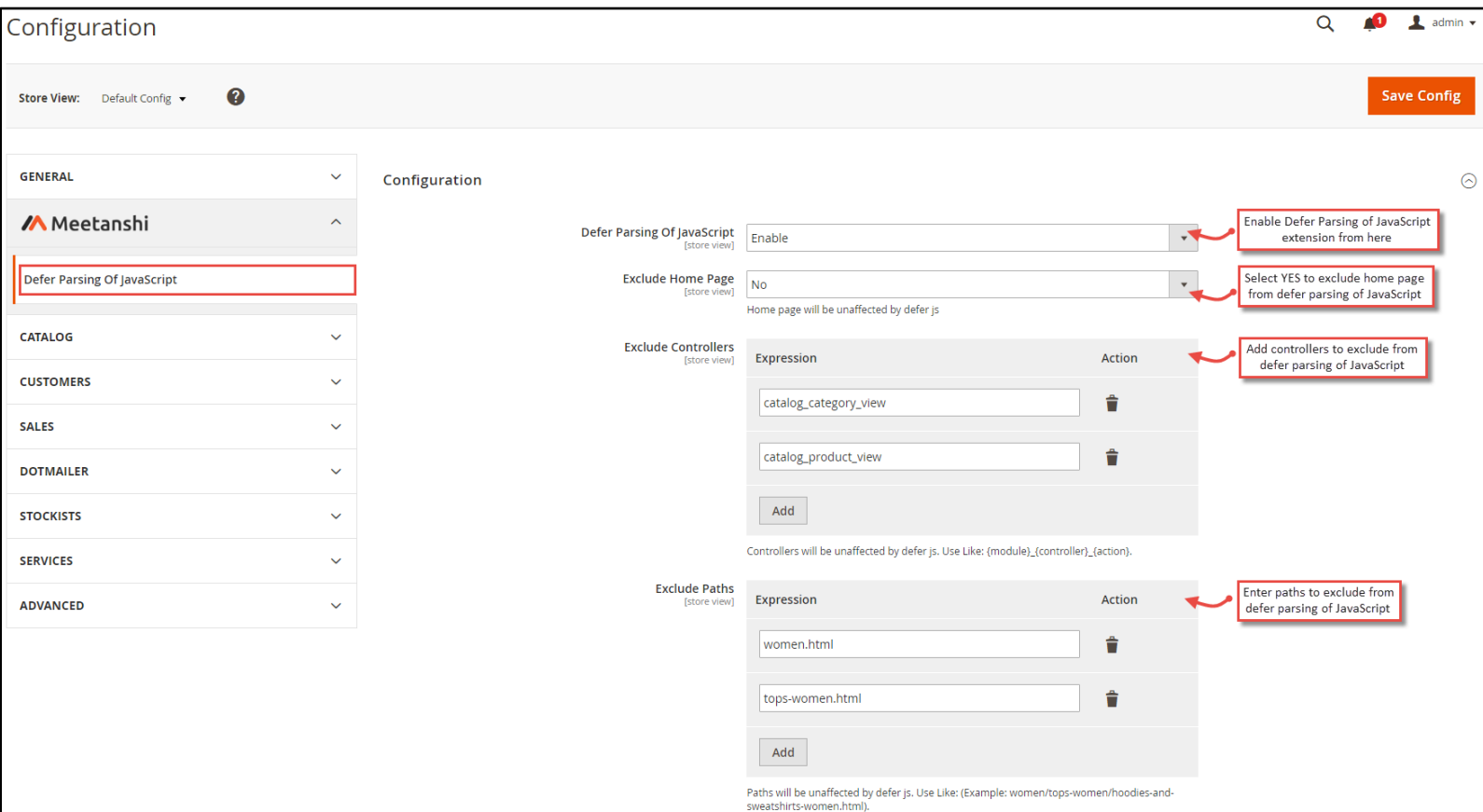
1. Extension Installation

- Create a folder structure in Magento root as app/code/Meetanshi/DeferJS
- Download and extract the zip folder and upload our extension files to the app/code/Meetanshi/DeferJS via FTP.
- Login to your SSH and run below commands step by step:
 - php bin/magento setup:upgrade
 - For Magento version 2.0.x to 2.1.x - php bin/magento setup:static-content:deploy
 - For Magento version 2.2.x & above - php bin/magento setup:static-content:deploy -f
 - php bin/magento cache:flush

2. Configuration

For configuring the extension, login to Magento 2, move to **Stores → Configuration → Defer Parsing of JavaScript** where you can find various settings to enable the extension.

- **Defer Parsing of JavaScript:** Enable Defer Parsing of JavaScript extension.
- **Exclude Home Page:** Set YES to exclude home page from the defer parsing of JavaScript.
- **Exclude Controllers:** Add controllers to exclude from defer parsing of JavaScript.
- **Exclude Paths:** Enter paths to exclude from defer parsing of JavaScript.



The screenshot shows the Magento 2 Configuration page for the 'Defer Parsing of JavaScript' extension. The left sidebar shows the configuration tree with 'Defer Parsing of JavaScript' selected. The main content area has three sections: 'Defer Parsing Of JavaScript', 'Exclude Home Page', 'Exclude Controllers', and 'Exclude Paths'. Red boxes and arrows highlight specific settings and annotations.

Defer Parsing Of JavaScript: Set to 'Enable'. Annotation: 'Enable Defer Parsing of JavaScript extension from here'.

Exclude Home Page: Set to 'No'. Annotation: 'Select YES to exclude home page from defer parsing of JavaScript'.

Exclude Controllers: A table with columns 'Expression' and 'Action'. Current entries: 'catalog_category_view' and 'catalog_product_view'. Annotation: 'Add controllers to exclude from defer parsing of JavaScript'.

Exclude Paths: A table with columns 'Expression' and 'Action'. Current entries: 'women.html' and 'tops-women.html'. Annotation: 'Enter paths to exclude from defer parsing of JavaScript'.

3. Before Implementation of Defer Parsing of JavaScript

If you check any low speed Magento 2 website in [Google PageSpeed](#), you can see the recommendation for Defer Parsing of JavaScript which is having low grade as shown in below image.

Performance Scores

PageSpeed Score	YSlow Score
E (51%) ▾	E (55%) ▾

Page Details

Fully Loaded Time	Total Page Size	Requests
5.3s [▲]	2.86MB [▲]	253 ▾

Before Defer Parsing of JavaScript

RECOMMENDATION	GRADE	TYPE	PRIORITY
▼ Leverage browser caching	F (0) ▾	SERVER	HIGH
▼ Avoid landing page redirects	F (32) ▾	SERVER	HIGH
▼ Defer parsing of JavaScript	D (66) ▾	JS	HIGH
▼ Combine images using CSS sprites	D (67) ▾	IMAGES	HIGH
▼ Specify a cache validator	B (87) ▾	SERVER	HIGH
▼ Minimize request size	B (89) ▾	CONTENT	HIGH
▼ Optimize the order of styles and scripts	A (92) ▾	CSS/JS	HIGH
▼ Minify JavaScript	A (94) ▾	JS	HIGH
▼ Minify HTML	A (95) ▾	CONTENT	LOW
▼ Specify image dimensions	A (97) ▾	IMAGES	MEDIUM

What do my scores mean?

Rules are sorted in order of impact upon score
Optimizing rules at the top of the list can greatly improve your overall score.

Not every recommendation will apply to your page
The recommendations are meant to be generic, best practices; some things will be out of your control (eg. external resources) or may not apply to your page.

[Learn more about PageSpeed/YSlow scores and how they affect performance.](#)

Need optimization help?

We can help in an optimization solution

4. After Implementation of Defer Parsing of JavaScript

After implementation of Defer Parsing of JavaScript in Magento 2 store, you can see the better grade in Google PageSpeed for JavaScript as shown below. All the excluded page, controllers and path will no longer deferred parsing of JavaScript. The improvement of grade helps in improvement of website load time.

▼ Minimize redirects	After Defer Parsing of JavaScript	A (92)	⬇️	CONTENT	HIGH
▼ Avoid CSS @import		A (92)	⬇️	CSS	MEDIUM
▼ Specify a cache validator		A (98)	⬇️	SERVER	HIGH
▼ Enable gzip compression		A (98)	⬆️	SERVER	HIGH
▼ Minify HTML		A (97)	⬇️	CONTENT	LOW
▼ Minify CSS		A (97)	⬇️	CSS	HIGH
▼ Specify image dimensions		A (99)	⬇️	IMAGES	MEDIUM
▼ Remove query strings from static resources		A (94)	⬆️	CONTENT	LOW
▼ Specify a Vary: Accept-Encoding header		A (97)	⬇️	SERVER	LOW
▼ Avoid bad requests		A (100)	⬇️	CONTENT	HIGH
▼ Avoid landing page redirects		A (100)	⬇️	SERVER	HIGH
▼ Defer parsing of JavaScript		A (100)	⬆️	JS	HIGH
▼ Enable Keep-Alive		A (100)	⬇️	SERVER	HIGH
▼ Inline small JavaScript		A (100)	⬇️	JS	HIGH
▼ Minimize request size		A (100)	⬇️	CONTENT	HIGH