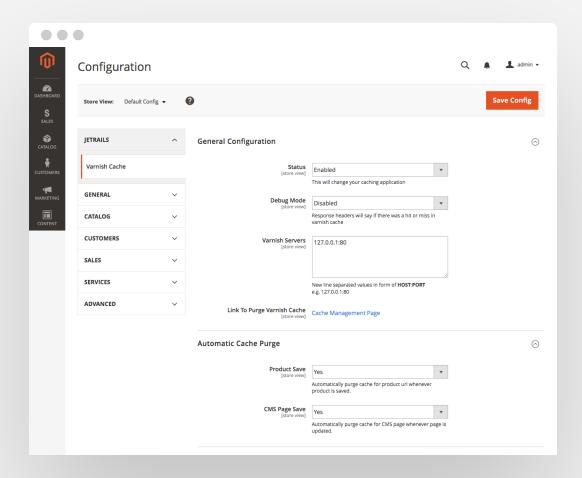


JetRails® Extension For Varnish®

User Guide



Version 1.1.5 Magento® 2 EE/CE



User Guide - JetRails Extension For Varnish

Table of Contents

1	Disclaimer
1	The MIT License
2	Installation Process
3	Setup Process
3	Using Debug Mode
	Purge Varnish Cache
3	Automatic Varnish Cache Purging
	Excluding Paths & Routes
	CLI Tools
	Additional Support

Disclaimer

All product and company names are trademarks[™] or registered® trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Varnish® and their logo are trademarks of Varnish. Magento® and their logo are trademarks of Magento.

The MIT License

Copyright 2018 JetRails®

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR

COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER

IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



User Guide - JetRails Extension For Varnish

Installation Process

Assumptions:

- This extension in archived form resides in /home/JetRails_Varnish-x.x.x.tgz
- The Magento installation is located in /var/www/html/

Instructions:

1. Copy the archived extension into the Magento installation folder.

```
cp /home/JetRails Varnish-x.x.x.tgz /var/www/html/
```

2. Extract the contents of the archive into the Magento installation.

```
cd /var/www/html/
tar -xvf ./JetRails_Varnish-x.x.x.tgz
```

3. Complete installation by upgrading Magento.

```
php ./bin/magento setup:upgrade
```

4. Remove the extension archive file.

```
rm /var/www/html/JetRails_Varnish-x.x.x.tgz
```

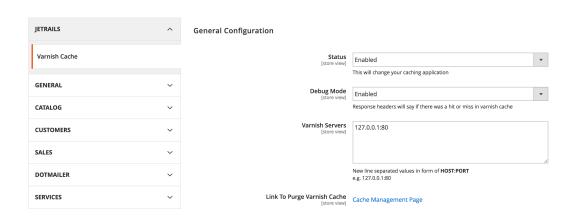
Setup Process

Enabling the Extension

First thing that you need to do is install the Varnish configuration file that came with this extension onto the server that is running Varnish. Once that is complete, log into the Magneto backend. Navigate to **Stores > Settings > Configuration** through the menu and click on the **JETRAILS > Varnish Cache** tab. Once there you will see a drop down setting for **Status** in the **General Configuration** panel. Setting this option to **Enabled** will change the Magento's caching application to **Varnish Cache** (thus enabling this extension), otherwise Magento's caching application will be set to **Built-in Cache** (effectively disabling this extension).

Configuring Varnish Servers

This extension supports configuring an array of Varnish servers. This means that you can configure this extension to communicate with multiple Varnish servers and purge cache on all of them at once. In the *Varnish Servers* text area in the *General Configuration* panel, you can enter as many varnish servers as you want by entering each one in it's own line in the format HOST:PORT. An example of such an entry can be 127.0.0.1:80.





Using Debug Mode

When *Debug Mode* is enabled, an extra HTTP parameter will be sent in the response header of every page. This parameter will be identified as *JetRails-Debug-Cache* and it's value will always be either **HIT** or **MISS**. The values signify whether the visit to the page resulted in a HIT in Varnish cache or if it resulted in a MISS in Varnish cache.

Enabling/Disabling Debug Mode:

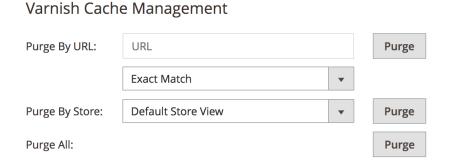
To enable or disable *Debug Mode*, log into your Magento Backend and navigate to *Store* > *Settings* > *Configuration* using the menu. Under the *JETRAILS* > *Varnish Cache* tab you will see the option *General Configuration* > *Debug Mode*. Toggling this setting will either enable or disable *Debug Mode*.

Inspecting Varnish Cache Status While In Debug Mode:

Using Google Chrome, open the *Developer Tools* panel by clicking on the three dots on the top right of the browser window, using the menu, click on *More Tools* > *Developer Tools*. Once the developer tools panel opens, visit the *Network* tab. Once you refresh the page, you will see every resource that loads for the current page you are viewing. The very first item will be the page itself. If you click on that item, you will see that more information is displayed. Looking under the *Response Headers* under the *Headers* tab, you will see that the *JetRails-Debug-Cache* parameter will be defined.

Purge Varnish Cache

Once this extension is configured correctly with Varnish, it gives you the ability to purge your Varnish cache. You can get to the *Varnish Cache Management* panel by navigating to *System > Tools > Cache Management* through your Magento backend. You should see the panel right above the *Additional Cache Management* panel. The three different actions that you can take are outlined below:



Purge By URL:

Whatever URL is passed will have to be matched exactly if "Exact Match" option is choosen. If "Sub-String" option is choosen, then all URLs that contain the passed URL will be purged.

Purge By Store:

This option will be populated with all the different store views that your Magento store has. Each store view is associated with a domain name. This domain name will be used to purge all the urls that contain said domain name.

Purge All:

This option will purge every entry that Varnish cached.





Automatic Varnish Cache Purging

Purging Varnish cache can optionally be triggered whenever a product, category, or CMS page gets saved/deleted. This extension then purges the FPC within Varnish for all the URLs that are associated with the product, category, or CMS page.

To toggle these setting, you can go to your Magento store's backend and navigate to **Stores > Settings > Configuration** through the menu. Next, make sure you are in the **JetRails > Varnish Cache** tab. Under the **Automatic Cache Purge** section you will see the **Product Save**, **Category Save**, and the **CMS**

Automatic Cache Purge

Product Save [store view]	Yes ▼
	Automatically purge cache for product url and associated categories whenever product is saved/deleted.
CMS Page Save [store view]	Yes ▼
	Automatically purge cache for CMS page whenever page is saved.
Category Save [store view]	Yes ▼
	Automatically purge cache for category

Excluding Paths & Routes

If you wish to exclude certain URLs and/or routes from being cached by Varnish, you can do so though this extension. After logging into your Magneto backend, navigate to **Stores > Settings > Configuration**. Under the **JETRAILS > Varnish Cache** tab and the **Cache Exclusion Patterns** panel, you will find the **Exclude URL Paths** and **Exclude Routes** settings.

Cache Exclusion Patterns

Excluded URL Paths [store view]		
	New line separated, url path must start with / and trailing / will be ignored e.g. /contact_us	1
Excluded Routes [store view]		
	New line separated, left associative	/1

Exclude URL Paths

Paths will point to a single page and will not contain a domain name, therefore they will always begin with a forward-slash (/). Entering in one path per line will enable you to exclude multiple paths from being cached by Varnish. You can confirm that this path exclusion rule is working by enabling debug mode for this extension and opening up the *Chrome Developer Tools* to analyzing the response headers. If this exclusion rule successfully worked, then you should see that <code>JetRails-Debug-Cache</code> will be set to <code>MISS</code> and <code>JetRails-No-Cache-Blame-Url</code> will contain the rule that you set previously.



User Guide - JetRails Extension For Varnish

Exclude Routes

Routes are defined within Magento and consist of the following format: **route/module/controller/action**. Excluding routes are left associative and therefore we are able to exclude a whole route by just specifying the route name. An example is if we enter admin then all requests to the admin route will be excluded from cache. Attaching more information to the route will more granularly help you exclude the routes that you want to exclude. You can confirm that this route exclusion rule is working by enabling debug mode for this extension and opening up the *Chrome Developer Tools* to analyzing the response headers. If this exclusion rule successfully worked, then you should see that JetRails-Debug-Cache will be set to *MISS* and *JetRails-No-Cache-Blame-Route* will contain the rule that you set previously.

CLI Tools

Magento binary can be executed by going to your Magento installation directory and running the following command. Note that *<command>* should be substituted with a command below: **php** ./bin/magento *<*command>

varnish:status

Shows if the extension is enabled. This extension is enabled when Magento's caching application is set to Varnish, it is disabled otherwise.

varnish:status:set <enable|disable>

When passing *enable*, Magento's caching application is set to *Varnish*. When *disable* is passed, the caching application is set to *Built-in Cache*.

varnish:purge:url <url>

Passing the URL will purge that url from Varnish Cache. Optional *--substring* flag can be passed to purge all URLs that contain the passed URL.

varnish:purge:store [store id]

If a store id is not passed, then all store views are displayed alongside their ids. This information can be used to pass a desired store view id. If executed with a valid store view id, the store view's domain name will be used to purge Varnish cache.

varnish:purge:all

Purge all cached entries in Varnish.



Additional Support

For additional support or inquiries, please feel free to reach out to us by phone or email. Any found bugs or feature requests can also be communicated to us through email.

email: development@jetrails.com

phone: 1(888) 997-2457

This extension is currently in beta and any feedback would be extremely valuable.