Doofinder for Magento 2

User Manual

Overview

This module provides integration between Magento 2.2+ and the Doofinder search service to enhance the overall search experience in your site.

To do that, the module replaces the default search engine of Magento. This means your product data is indexed in Doofinder servers and updated whenever a product is changed. When a search occurs, the module asks Doofinder for the right results and serves them to Magento.

Additionally, you can use our front-end Javascript layers to enhance the user search experience with faster results.

Support

- For technical support, get in touch from your Doofinder Account or drop us an email at support@doofinder.com.

- If you're a developer, you can file an issue or contribution request in our public code repository at Github: https://github.com/doofinder/doofinder-magento2.

Pre-requisites

- This module requires Magento 2.2 or greater.

- Hardware and software requirements are the same as for Magento 2. Check Magento 2 technical requirements for more information.

- This module is heavily based on Cron. Magento 2 requires Cron to properly work, so you must have Cron up and running in your server for the module to work.

- To use the Doofinder module you need an active Doofinder account. Doofinder is a paid service but you can try it 30 days for free and benefit from the *freemium* plan if you have a small store. If you don't have an account yet you can sign up at:

  https://www.doofinder.com/signup

  Plans and pricing are available at:

  https://www.doofinder.com/price

- Doofinder module is a free purchase so you have to pay nothing to use it. The only cost for you is the price of the Doofinder service once the trial period has ended.

Installation

Doofinder can be installed via Component Manager as a *free* purchase done in Magento Marketplace, or via Composer, the *the-facto* PHP package manager, if you feel at home working from the command line directly in your server.

> **WARNING: <u>Do not install this module via FTP or direct upload</u>** to your server's filesystem. This module has external software dependencies that Component Manager and Composer know how to deal with. If you try to install the module by any other way than recommended you may experience errors in your system.

From the official Magento documentation:

Installing an extension from the Admin is a three-step process that should take place during off-peak hours. Before the extension is installed, your store is put into maintenance mode, checked for readiness, and backed up. After the extension is installed, it must be configured for your store according to the developer's instructions.

As a best practice, an extension should be installed and tested in a development environment before it is pushed to production.

Installation via Magento Marketplace

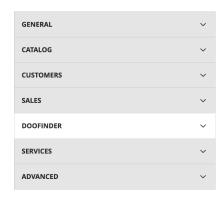For up-to-date instructions refer to the <u>official Magento documentation</u>.

Installation via Composer

1. Log into your Magento 2 server via SSH.

2. Go to Magento 2 installation path, for instance:

   ```
   $ cd /var/www/domains/shop.example.com
   ```

3. Execute:

   ```
   $ composer require doofinder/doofinder-magento2
   $ php bin/magento setup:upgrade
   $ php bin/magento setup:di:compile
   ```

Post-Installation

After installing the module, a new *"Doofinder"* menu should have been added to *"Stores > Configuration"*.

There you will find all the module configuration options.

GENERAL	⌄
CATALOG	⌄
CUSTOMERS	⌄
SALES	⌄
DOOFINDER	⌄
SERVICES	⌄
ADVANCED	⌄

Module Configuration

Read First

As you will probably know, Magento 2 can be configured at different levels; you can set up default values and be more specific for each store view.

This module makes use of that configuration scheme but not all settings are available at all levels, some will be at the default level and some others will be specific for each store view. You must pay attention so the module is properly configured.

Before configuring the module we should clarify some concepts:

- From Magento's point of view, Doofinder is a search engine. This concept clashes with Doofinder's concept of search engine. In Magento 2 the search engine is the system you use for search and you can use only one. MySQL is Magento's default search engine but you can use Doofinder instead.

- In Doofinder's slang a search engine is a single container where you can put documents you want to search. You can have multiple search engines in the same account, each with a different unique ID which is called a Hash ID. When you set up search in Magento 2 with the Doofinder module, you associate each store view with its own search engine by using different Hash ID values.

Module configuration is structured in two submenus:

1. **Configuration:** General configuration of the module, like authentication, search engine identificators or whether to use the Doofinder Layer in the frontend or not.

2. **Index Settings:** Configuration about the data being exported.

Almost all module your configuration will take place inside those two sections. To make the most of the module there are some considerations to take into account first so reading the next section is recommended.

Configuration Flow

These are the recommended steps to have Doofinder up and running in the shortest time.

1. Sign up for a Doofinder account.

2. Create your search engines in Doofinder.

3. Configure the module.

4. Enable Doofinder as Magento's search engine.

1. Sign up for a Doofinder account

If you already have a Doofinder account you can omit this step.

Visit: https://www.doofinder.com/signup in your web browser to create a new account.

2. Create your search engines in Doofinder

If you created your Doofinder account in the previous step or you don't have any search engine yet, you will automatically start the installation wizard. Otherwise, in the list of search engines in your account you will find a button to create a new search engine (*New Search Engine*).

The search engine creation wizard consists of three steps:

Site Information

In this screen you will have to enter:

- A name for your search engine to easily distinguish it from other search engines in your account.
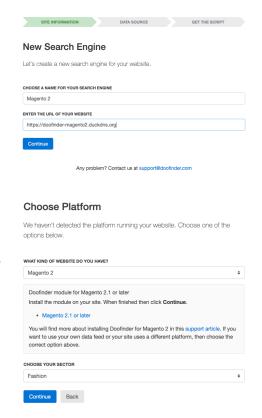
- The web address of your site's home page.

Once available, click the *Continue* button.

Choose Platform

The application should have detected that your site is using Magento 2. If that's not the case choose *Magento 2*.

From now on, Doofinder will assume the Magento 2 module is installed. If you have not installed it yet, please, do it now.

Once done, click *Continue*. Doofinder will try to read the configuration from your site. If you get an error message, check that you've installed the plugin properly.

If everything went as expected you will be asked if you want Doofinder to generate a search engine for each store view in your site or if you want to create only one search engine.
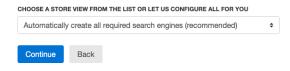
The default action (generate all search engines) is recommended.

Once done click the *Continue* button.

Magento 2 Module

This module requires a search engine for each store view. You can create a single search engine or one for each detected store view (recommended unless you know what you're doing).

CHOOSE A STORE VIEW FROM THE LIST OR LET US CONFIGURE ALL FOR YOU

| Automatically create all required search engines (recommended) | ◆ |

Continue   Back

Doofinder will create a single search engine or, in case you followed the recommended action, as many search engines as store views in your site, and you will be presented a summary with the data required to configure the plugin.

Magento 2 Module

Here you have the data for your Magento 2 installation. To learn more about how to configure the module refer to the documentation.

	Search Engine	Store View	Hash ID	
API Token	eu1-d4389814f3a76a5bd28da22f9b027b78dff6445d			
HASH IDS	Your Site (M2) [default]	default	921e2b358b764a052bf441cfeaa8094a	
	Your Site (M2) [es]	es	ce274386c0b0783d42db3e0986b73b4a	

Annotate all information (copy and paste into a text file should work fine) and continue.

Doofinder Layer Script

This step is optional at this stage of the installation process. If you want to configure the script now, click the *Yes, let's go!* button and follow the instructions of the wizard. Otherwise click the *Skip this step and* finish button.

You will be able to configure the layer later by accessing your search engine and going to *Configuration > Installation Scripts > Doofinder Layer*.

3. Configure the module

Once you have all *hashids* and the *API Key* you can configure the Doofinder module.

Enter your Magento admin and go to *Stores > Configuration > Doofinder > Configuration* in the default configuration scope and **set the API Key first**. Then save the configuration.

Then change the configuration scope to one of your site's store view and **set the hash id** and save. Repeat for each store view in your site. Make sure you're not repeating hash ids between different store views.

After the basic configuration is done **you're ready to enable Doofinder** as Magento's search engine.

> **NOTICE:** It's recommended to take some time to configure the module before enabling Doofinder as Magento's search engine.

4. Enable Doofinder as Magento's search engine

Once you configured the module, it's time to set Doofinder as Magento's search engine. That's done at *Stores > Configuration > Catalog > Catalog > Catalog Search* .

Here are some things to consider first...

Doofinder as Magento's search engine

The module replaces the default search engine (MySQL) and indexes all your products in the Doofinder servers. After the initial import, **the recommended search catalog index mode is *Update On Save*** so only changes in products are sent to Doofinder. If you set the search catalog index to *Update By Schedule* your catalog will be completely erased and reindexed too frequently, unnecessarily increasing the consumption of requests in the Doofinder service. Instead, it's better to let the module take care of the updates by setting the catalog index mode to *Update On Save*.

NOTICE: If you change the search catalog index mode to *Update By Schedule* you may experience problems with search because your data will be erased and re-indexed in Doofinder based on that schedule.

Prevent indexing wrong image URLs

Due to some well known bugs in Magento 2, it may occur that images are indexed in Doofinder with wrong paths, resulting in errors when they're displayed.

To fix this, ensure you explicitly set media URLs:

- On the Admin Panel, go to `Stores > Settings > Configuration`.

- On the left panel, under `General`, select `Web`.

- Open the `Base URLs` section.

- Make sure you have configured *Base URL for User Media Files* and *Secure Base URL for User Media Files* so they point to the right place (usually, they are not configured by default).

- For *Base URLs (Secure)*: Fix *Secure Base URL* and *Secure Base Link URL* first, because they may have the value **0/** and the form won't validate on submit. In a local development environment you can use the same protocol (http://) as for Base URLs.

Recommended Catalog Search Settings

Once you select Doofinder as Magento's search engine, you may have questions about what to do with the other settings that appear next to the *Search Engine* selector. These are our recommendations:

- **Enable EAV Indexer:** From Doofinder's point of view there's no recommended setting. For a shop with a big number of products, you can try to enable it and see if it performs faster. If it doesn't, and you don't have a plugin that uses it, it can remain disabled.

- **Autocomplete limit:** Doofinder does not use it, so it can be ignored.

- **Enable Search Recommendations:** Switching this option on may slow down searching a bit, but you can enable it if you want this feature.

- **Enable Search Suggestions:** It's not used so it can be switched off.

Configuration

IMPORTANT: In the next pages you will find documentation about the available settings. Notice that, under the name of each configuration setting, you will find its *scope* of application, which may be Global, Store View or both. That means that, depending on the current *scope* (Default Config, Default Store View…), some options will be available and some won't.

Account

API Key
Global

If you plan to use Doofinder as your Magento 2 search engine instead of the default (MySQL), or you plan to use only the *Atomic Updates* feature (see *Index Settings* later) you will need an API Key to properly authenticate requests done from your server against Doofinder servers.

WARNING: Doofinder offers two different types of API Keys depending on the use. Remember to configure a *Management API Key* so your Magento 2 can perform indexing operations in Doofinder.

WARNING: This setting must be configured BEFORE selecting Doofinder as Magento 2 search engine or enabling the *Atomic Updates* feature.

If you don't have an API Key:

- Log into your Doofinder account.

- In the top menu press your account's email to open the menu and go to *API Keys*.

- Press *New API Key*.

- Enter a name for your API Key so you know where you're using it and check *I will use this API Key with the management API*.

- Press *Create API Key*.

Search Engine

Use Doofinder for Internal Search
Global

This is actually a shortcut to configure Doofinder as the Magento 2 search engine. If the link doesn't work you only have to go to *Stores > Configuration > Catalog > Catalog* and, under *Catalog Search* uncheck *Use System Value* for *Search Engine* and choose *Doofinder* instead.

WARNING: When you choose Doofinder as Magento's search engine the catalog index will require a reindex.

Hash ID
Store View

This is the unique ID of a search engine in Doofinder. It's a 32-character long string. You can get it from the list of search engines that appears when you access your Doofinder account.

WARNING: This setting must be configured BEFORE selecting Doofinder as Magento 2 search engine or enabling the *Atomic Updates* feature.

Doofinder Layer

Doofinder provides some Javascript layers to easily integrate search with any website. You can also use those layers in your Magento 2 website and this section provides a place to paste the necessary Javascript code to make them work.

To generate a layer for your website:

1. Log into your Doofinder account.

2. Access the search engine you want to configure.

3. Go to *Configuration > Installation Scripts > Doofinder Layer*.

4. Press *Configure Doofinder Layer*.

5. Follow the wizard steps.

WARNING: Magento 2 uses RequireJS to load Javascript dependencies. When creating your script you must change the type of script. The recommended value to paste the script in this section is *RequireJS (HTML script tag, easy)*.

Enabled Global, Store View	Enable or disable the layer globally or per store view.
Script Store View	This is the place where you have to paste the layer script.

Banners

Doofinder lets you configure banners associated to certain search terms so you link campaigns to the search. When Doofinder is configured as Magento's search engine, it can display those banners in the search results page if your template allows it.

Enabled
Global, Store View

Enable or disable the banners feature globally or per store view.

Insertion Point
Global, Store View

CSS selector of the element on your page that will act as a reference to insert the banner. See *Insertion Method* setting for more info.

Insertion Method
Global, Store View

The method used to insert the banner, relative to the insertion point.

The banner can be inserted:

- Inside the reference element, replacing any existing content.

- Inside the reference element, preserving any existing content, as the first or last child.

- Outside the reference element, before or after it.

Statistics

Doofinder collects anonymous stats when a user clicks on the results. In this section some CSS selectors are used to identify which page elements represent a search result.

IMPORTANT: No sensitive data is sent to the Doofinder servers, and data can't be used to identify your users univocally (no fingerprinting is used, only temporary randomly generated session strings are used).

Product container in search results
Store View

CSS selector that matches an element of the page that represents a single search result.

Product links in search results
Store View

CSS selector that matches a link to the product page inside certain result.

Index Settings

Settings

Export Product Prices
Global, Store View

Choose whether to export prices or not.

Price Export Mode
Global, Store View

Choose *Auto* (default) to export prices the same way as they're displayed in your store. If your store displays prices with and without taxes included you will want to choose an specific mode: *With Taxes* or *Without Taxes*.

Image Size
Global, Store View

Export product images at the given width. Leave empty to export at the original size.

WARNING: Take into account that, if the images don't exist at the specified size, they will have to be generated, which is a high time and resources consuming process. It is recommended to leave it empty and use the default size of the selected image attribute.

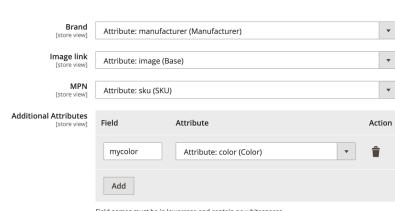**Export only categories present in navigation menus**
Global, Store View

The module exports only active categories. This option will limit them to categories used for navigation purposes.

Attributes

For each product, the module indexes a default set of attributes in Doofinder.

You can change some of them or add your own custom attributes.

IMPORTANT: Don't use names that may clash with internal Magento attribute names. It's a good practice to use a prefix like **my_** or **custom_**.

Brand [store view]	Attribute: manufacturer (Manufacturer)	▾

Image link [store view]	Attribute: image (Base)	▾

MPN [store view]	Attribute: sku (SKU)	▾

Additional Attributes [store view]

Field	Attribute	Action
mycolor	Attribute: color (Color) ▾	🗑
Add		

Field names must be in lowercase and contain no whitespaces.

Troubleshooting

Q: **Right after installing the module, trying to save the module configuration I get an error:**

```
Warning: array_merge(): Argument #1 is not an array in /var/www/html/ vendor/
doofinder/doofinder-magento2/Helper/Indexer.php on line XX
```

A: Right after the installation of the module, Magento doesn't know about the default settings, which can trigger this error. The solution usually is to clean the cache after installing the module.

You can execute this in the CLI:

```
$ php bin/magento setup:upgrade
$ php bin/magento setup:di:compile
$ php bin/magento cache:flush
```

Or go to *System > Cache Management* and choose Flush Magento Cache.

Q: **I have my indexes configured to be updated on save: when will the items be indexed?**

A: They should be indexed after a while, assuming cron works properly - indexes are revalidated in case of invalidation in cron no matter of index mode.

Q: **I can't change the Update Products on Save configuration in Index Settings**

A: When Doofinder is configured to be Magento's search engine, atomic updates configuration is forced. When your indexed are configured to be updated on save, atomic updates are enabled. When they are configured to be updated by schedule, atomic updates are disabled.

If you don't use Doofinder as Magento's search engine (for instance, you only use the Javascript layers), you can configure atomic updates yourself.

Q: **Some products are being indexed with a wrong link, they point to the *backoffice* instead of the correct frontend store view.**

A: Unfortunately at the time of writing this, there's a bug in Magento 2 which produces wrong URLs in certain conditions:

https://github.com/magento/magento2/issues/4247

To prevent this, make sure every product has a URL key set.