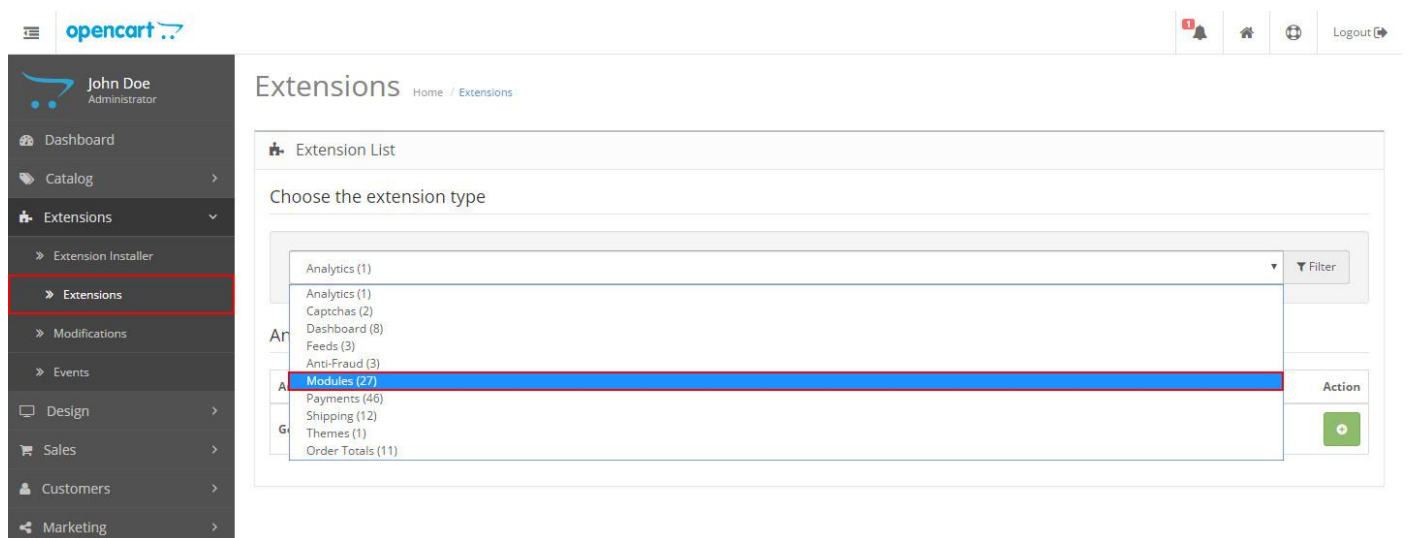# Sphinx Powered Search For OpenCart

I. What is Sphinx?

Sphinx is a full-text search engine, publicly distributed under GPL version 2. Technically, Sphinx is a standalone software package provides fast and relevant full-text search functionality to client applications. It was specially designed to integrate well with SQL databases storing the data, and to be easily accessed by scripting languages. For more information, please go to Sphinx documentation (http://sphinxsearch.com/).

II. How to install

1. Upload the contents of the 'upload' folder to the root directory of your OpenCart installation.

2. Go to Extensions→Extension Installer and upload the sphinx_search.ocmod.xml file.

3. Go to Extensions→Modifications and make sure that the Sphinx Search module's status is Enabled.

4. Go to Extensions→ Extensions→Modules.

5. Install 'Sphinx Powered Search For OpenCart' module.

6. Click 'Edit' on 'Sphinx Powered Search For OpenCart' module to configure.

III. Configuration

General tab

1. To enable the 'Sphinx Powered Search For OpenCart' module, please change the 'Sphinx Search Status' to 'Enabled'.

2. In the 'Sphinx server' field you should enter the IP address or the hostname of the PC where the Sphinx installation is made. By default the value is filled with the IP address where the Opencart installation is made.

3. In the 'Sphinx port' field you should enter the searchd TCP port. By default is 9312.

4. Matching mode

- Sphinx supports different matching modes to provide variety of searching needs. The default matching mode used (if not set explicitly) is SPH_MATCH_ALL which means that all queried terms will be searched for against all the full-text fields and only those documents will be returned in the result set which matches all the queried terms.

5. Sort mode

There are the following result sorting modes available:

- SPH_SORT_RELEVANCE mode, that sorts by relevance in descending order (best matches first).
- SPH_SORT_ATTR_DESC mode, that sorts by an attribute in descending order (bigger attribute values first).
- SPH_SORT_ATTR_ASC mode, that sorts by an attribute in ascending order (smaller attribute values first).
- SPH_SORT_TIME_SEGMENTS mode, that sorts by time segments (last hour/day/week/month) in descending order, and then by relevance in descending order.
- SPH_SORT_EXTENDED mode, that sorts by SQL-like combination of columns in ASC/DESC order.
- SPH_SORT_EXPR mode, that sorts by an arithmetic expression.

6. Ranking mode

- Ranking (aka weighting) of the search results can be defined as a process of computing a so-called relevance (aka weight) for every given matched document with regards to a given query that matched it. So relevance is in the end just a number attached to every document that estimates how relevant the document is to the query. Search results can then be sorted based on this number and/or some additional parameters, so that the most sought after results would come up higher on the results page.

7. Sphinx weights

- Sphinx has the ability to weight fields with differing levels of importance. You can set the weights to several fields in the admin panel. The weights must be positive 32-bit integers. The final weight will be a 32-bit integer too. Default weight value is 1.

Autocomplete tab

- To enable the autocomplete feature you should change the 'Autocomplete status' to 'Enabled'.

- Enter the CSS selector of the search field you want the autocomplete to appear. By default the selector is: #search input.

- Set maximum number of products to show.

- Show categories inside autocomplete dropdown list – if there is a category with the same name as the one entered in the search input field, then show it.

- Set maximum number of categories to show.

Products tab

- If you want to show product's which status is 'Disabled', then select 'Yes' from the dropdown menu.

- You can set minimum product quantity. This means that if you enter 3 in the field, then only products which quantity is 3 or greater will appear in the results. If left blank or 0, then all products will be shown.

Categories tab

- If you want to enable Sphinx Search for categories, then you should select 'Enabled'

- If you want to show product's which status is 'Disabled' in the categories section, then select 'Yes' from the dropdown menu.

- You can set minimum product quantity for the categories section. This means that if you enter 3 in the field, then only products which quantity is 3 or greater will appear in the results. If left blank or 0, then all products will be shown.

Suggestions tab

- This will generate a table (sphinx_suggestions) with all keywords from the product's name column inside product_description table, build trigrams and freqs.

NOTE: When add/edit product the new/modified product name will be added to the sphinx_suggestions table.

Config file tab

1. If you want to use Sphinx with Regular Indexes, then you should select 'Regular index' from the select box and perform the following steps:

- Fill the two fields below and click on the 'Generate' button – a popup window will appear with the generated file.

- Save the file and place it in your sphinx installation folder.

- Delete previously created index files if any. (Inside your 'data path', you have specified).

- Run 'indexer --all' command.

- Enable sphinx service.

2. If you want to use Sphinx with Real Time Indexes, then you should select 'Real Time index (RT)' from the select box and perform the following steps:

- Fill the two fields below and click on the 'Generate' button – a popup window will appear with the generated file.

- Save the file and place it in your sphinx installation folder.

- Delete previously created index files if any. (Inside your 'data path', you have specified).

- Run 'searchd' command.

- Go to Admin→Extensions->Modules→Sphinx Powered Search For OpenCart.

- Go to 'RT index' tab and build indexes.

- Go to 'Suggestions' tab and generate the suggestions.

V. Compatibility

This extension is compatible with the following Opencart versions:

- ✓ v.2.3.0.2

NOTE: Please make sure that the file 'SphinxClient.php' (located in system/library/) has the same contents as the one that comes with the installed version of sphinx ('sphinxapi.php').

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