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How to use the Elasticsearch extension?

Elasticsearch is a real-time distributed search and analytics engine which allows you to explore your data very quickly. It is used for full-text search, structured search, analytics, and all three in combination.

And it packages up all this functionality into a standalone server that your application can talk to via a simple RESTful API, using a web client from your favorite programming language, or even from the command line.

The Elasticsearch extension will allow you to make the link between the search and analytics engine and Magento.

You can find more information on the product here:

- <https://www.elastic.co/products/elasticsearch> 
- <https://www.elastic.co/guide/en/elasticsearch/guide/current/index.html> 

STEP 1: Install and run Elasticsearch server

As Elastic advises, "the easiest way to understand what Elasticsearch can do for you is to play with it".

To be able to use the Elasticsearch extension and reach the server, you first need to have a recent version of Java. You can easily install the latest version of Java from www.java.com .

Then you can install and run the Elasticsearch engine following below steps.

Install Elasticsearch

You can download the latest version of Elasticsearch from elastic.co/downloads/elasticsearch .

Once it is downloaded, you can extract the archive file.

Once you've extracted the archive file, Elasticsearch is ready to run.

Run Elasticsearch

To run Elasticsearch, open a console and run the following command:

```
cd elasticsearch-<version>./bin/elasticsearch
```

If you're running Elasticsearch on Windows, simply run:

```
bin\elasticsearch.bat
```

Test Elasticsearch

You can easily test if the Elasticsearch engine is reached by opening a new terminal window and running the following:

```
curl 'http://localhost:9200/?pretty'
```

You should then get:

```
{
  "name" : "Centurius",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "2.3.2",
    "build_hash" : "b9e4a6acad4008027e4038f6abed7f7dba346f94",
    "build_timestamp" : "2016-04-21T16:03:47Z",
    "build_snapshot" : false,
    "lucene_version" : "5.5.0"
  },
  "tagline" : "You Know, for Search"
}
```

(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-elasticsearch-server-running.png>)

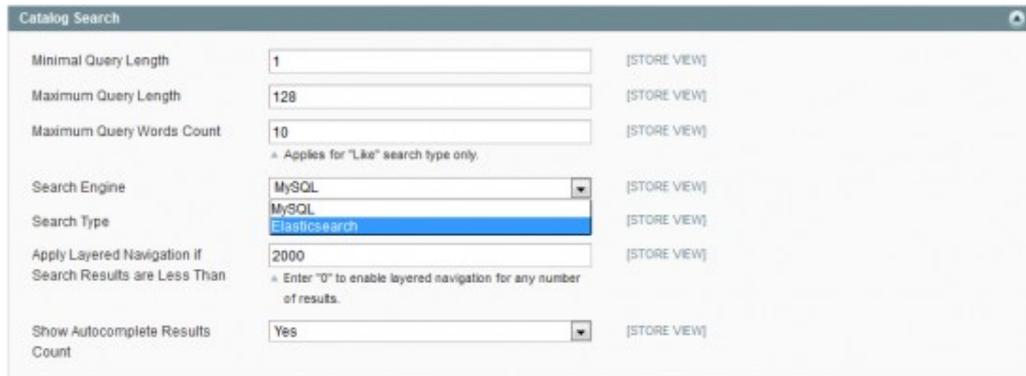
You now have an Elasticsearch node up and running.

STEP 2: Enable the Elasticsearch method

To configure Elasticsearch in a general way, go to **SYSTEM > CONFIGURATION > CATALOG > CATALOG > SEARCH**.

Configure the general parameters

In the **Catalog Search** tab, you can choose Elasticsearch as the **Search Engine**.

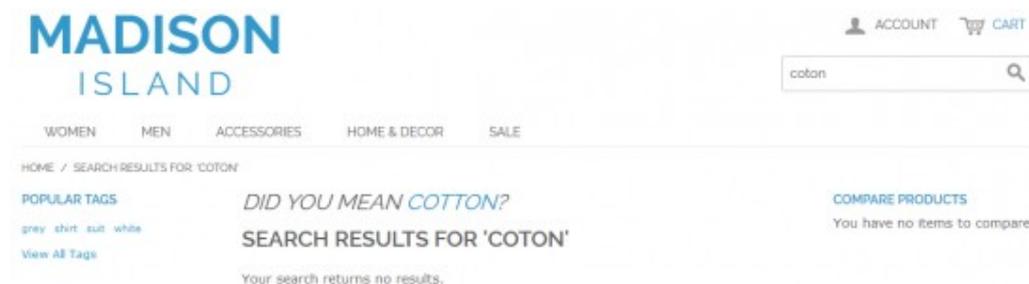


Field	Value	Action
Minimal Query Length	1	[STORE VIEW]
Maximum Query Length	128	[STORE VIEW]
Maximum Query Words Count	10	[STORE VIEW]
* Applies for "Like" search type only.		
Search Engine	MySQL	[STORE VIEW]
Search Type	Elasticsearch	[STORE VIEW]
Apply Layered Navigation If Search Results are Less Than	2000	[STORE VIEW]
* Enter "0" to enable layered navigation for any number of results.		
Show Autocomplete Results Count	Yes	[STORE VIEW]

(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-catalog-search-elasticsearch.png>)

When choosing Elasticsearch as the Search engine, more options should display:

- **Enable Debug Mode:** will display potential error messages in the frontend.
- **Enable Suggestion:** will display a suggestion if search engine detects a better text query ("Did you mean?" feature).



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-did-you-meean.png>)

- **Servers:** must be written as host:port and separated by a comma.
- **Verify Host:** only used for https connection. Set that option to No if you don't have a valid SSL certificate.
- **Server Timeout:** number of seconds after a timeout occurs for every request. If you're using indexing of file, large value is necessary.
- **Index Prefix:** used to prefix index names in order to avoid potential collisions.
- **Number of Shards:** having more shards enhances the indexing performance and allows to distribute a big index across machines.

- **Number of Replicas:** define the number of replicas. Note that having more replicas enhances the search performance and improves the cluster availability.
- **Safe Reindex:** reindex in a temporary index and switch to it once finished. Especially useful for large product catalogs.
- **Query Operator:** by default it is set to AND. For example, with the AND operator, the same query is translated to "digital AND camera", with the OR operator, the query "digital camera" is translated to "digital OR camera". You may have less results with the AND operator but they'll be more relevant.
- **Enable Source Storage:** should we store source data in Elasticsearch or not. Keep this setting to No for better performances. Will be forced to Yes if fast autocomplete is enabled.
- **Enable Fuzzy Query:** enable the approximative search.

Search Engine	Elasticsearch	[STORE VIEW]
Enable Debug Mode	No	[STORE VIEW]
Enable Suggestion	Yes	[STORE VIEW]
Servers	127.0.0.1:9200	[STORE VIEW]
Verify Host	Yes	[STORE VIEW]
Server Timeout	10	[GLOBAL]
Index Prefix		[STORE VIEW]
Number of Shards	1	[STORE VIEW]
Number of Replicas	0	[STORE VIEW]
Safe Reindex	Yes	[STORE VIEW]
Query Operator	AND	[STORE VIEW]
Enable Source Storage	No	[STORE VIEW]
Enable Fuzzy Query	Yes	[STORE VIEW]

(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-catalog-search.png>)

Manage your Indexes

The Elastic Search extension adds 3 more indexes that you can find in **SYSTEM > INDEX MANAGEMENT:**

- **Elasticsearch Product:** Rebuild product fulltext search index
- **Elasticsearch Category:** Rebuild category fulltext search index
- **Elasticsearch CMS Pages:** Rebuild CMS pages fulltext search index

Index Management						
Index	Description	Mode	Status	Update Required	Updated At	Action
<input type="checkbox"/>	Product Attributes	Index product attributes for layered navigation building	Update on Save	READY	NO	Apr 7, 2016 4:35:00 AM Reindex Data
<input type="checkbox"/>	Product Prices	Index product prices	Update on Save	READY	NO	Apr 7, 2016 4:35:03 AM Reindex Data
<input type="checkbox"/>	Catalog URL Rewrites	Index product and categories URL rewrites	Update on Save	READY	NO	Apr 7, 2016 4:35:30 AM Reindex Data
<input type="checkbox"/>	Category Products	Indexed category/products association	Update on Save	READY	NO	Apr 7, 2016 4:35:32 AM Reindex Data
<input type="checkbox"/>	Elasticsearch Product	Rebuild product fullest search index	Update on Save	READY	NO	Apr 7, 2016 4:36:02 AM Reindex Data
<input type="checkbox"/>	Stock Status	Index Product Stock Status	Update on Save	READY	NO	Apr 7, 2016 4:34:59 AM Reindex Data
<input type="checkbox"/>	Tag Aggregation Data	Rebuild Tag aggregation data	Update on Save	READY	NO	Apr 7, 2016 4:36:03 AM Reindex Data
<input type="checkbox"/>	Elasticsearch Category	Rebuild category fullest search index	Update on Save	READY	NO	Apr 7, 2016 4:36:04 AM Reindex Data
<input type="checkbox"/>	Elasticsearch CMS Pages	Rebuild CMS pages fullest search index	Update on Save	READY	NO	Apr 7, 2016 4:36:05 AM Reindex Data

(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-cms-index.png>)

You can easily reindex data by selecting those 3 indexes and by clicking on **Submit**.

STEP 3: Configure your search with Elastic Search

You can now configure your search in **SYSTEM > CONFIGURATION > BUBBLE EXTENSIONS > ELASTICSEARCH**.

General settings

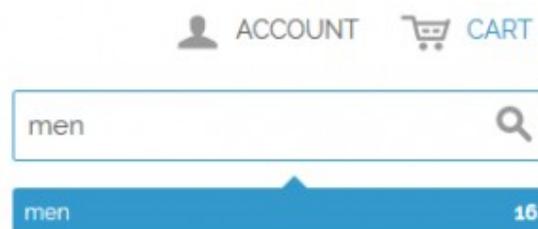
In the **General Settings** subtab, you will be able to **Enable Response Header**. This will enable a custom response header for debug purpose.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-general-settings.png>)

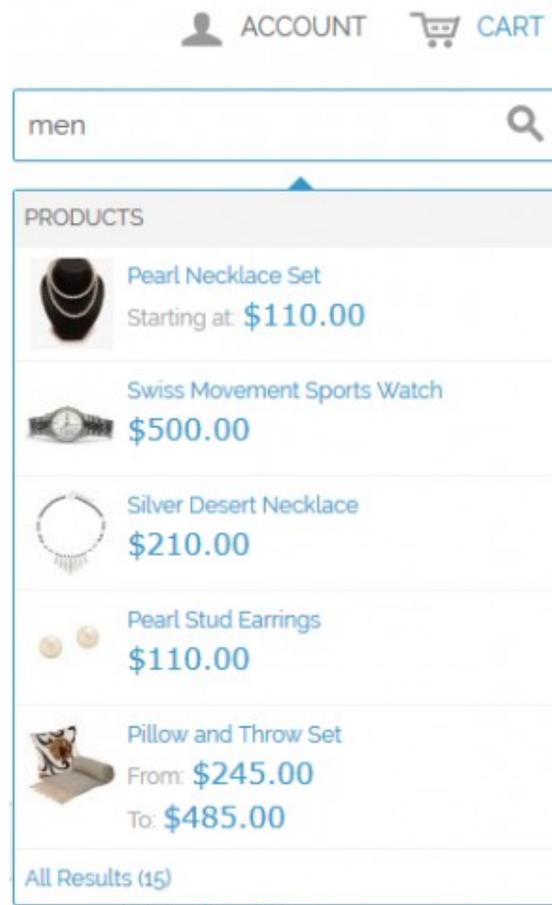
Autocomplete Settings

By default, the autocomplete will display terms suggestions for your search.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-disabled.png>)

You can choose to **Enable Autocomplete** in order to override the default autocomplete and to display products directly.



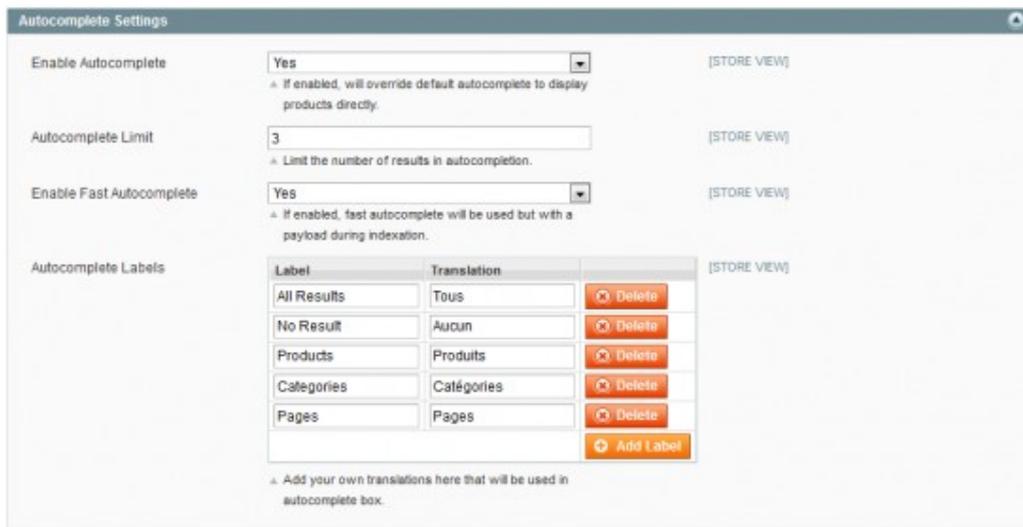
(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-enabled.png>)

If enabled, 2 additional options will be displayed:

- **Autocomplete Limit:** define the maximum number of results displayed in the autocomplete. For example 3.
- **Enable Fast Autocomplete:** use the fast autocomplete (with a payload during indexation).

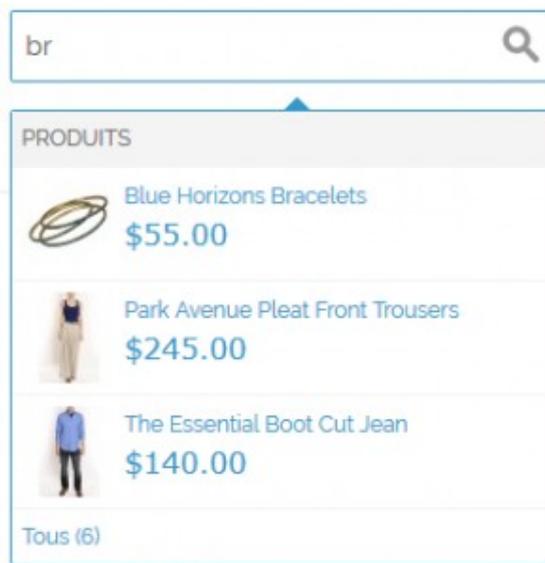
You can also define a translation for each one of the labels that will be displayed in the autocomplete box as well as add new ones in the Autocomplete Labels field.

This option is very useful if your website is available in different languages. You can then change the scope to a store view, for example the French one, and translate each autocomplete label to the French word.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-settings.png>)

Below is what you should get with the above example:



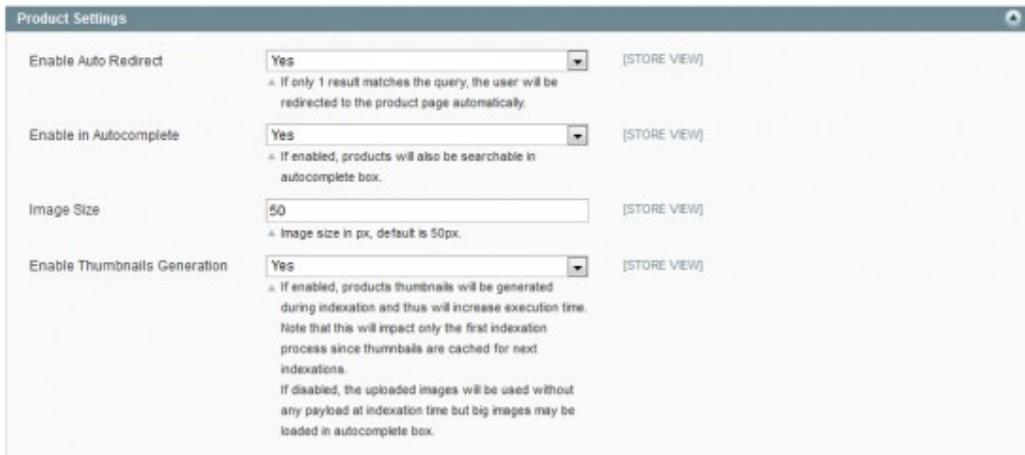
(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-labels.png>)

Product Settings

With the Elastic Search extension, you can make your products searchable in the autocomplete box. Several options exist to enhance the search.

- **Enable Auto Redirect:** If only 1 result matches the query, the user will be redirected to the product page automatically.
- **Enable in Autocomplete:** If enabled, products will be searchable in the autocomplete box.
- **Image Size:** define the size of the images in the autocomplete box in px. By default the value is set on 50px.
- **Enable Thumbnails Generation:** enable that option if you want to generate products thumbnails. They'll be generated during indexation and increase execution time. Note that this will impact only the first

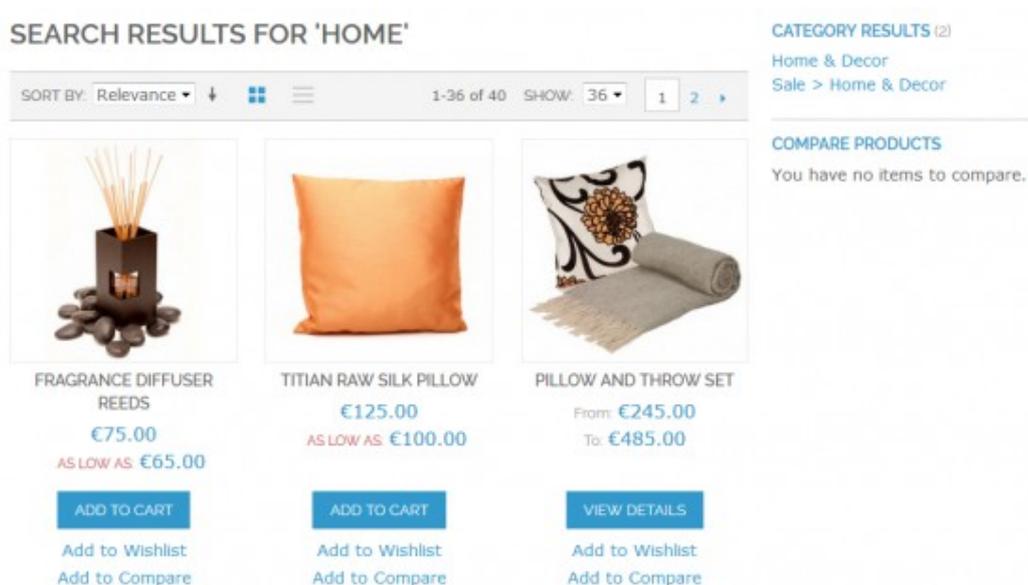
indexation process since thumbnails are cached for next indexations. If that option is disabled, the uploaded images will be used without any payload at indexation time but big images may be loaded in autocomplete box.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-product-settings.png>)

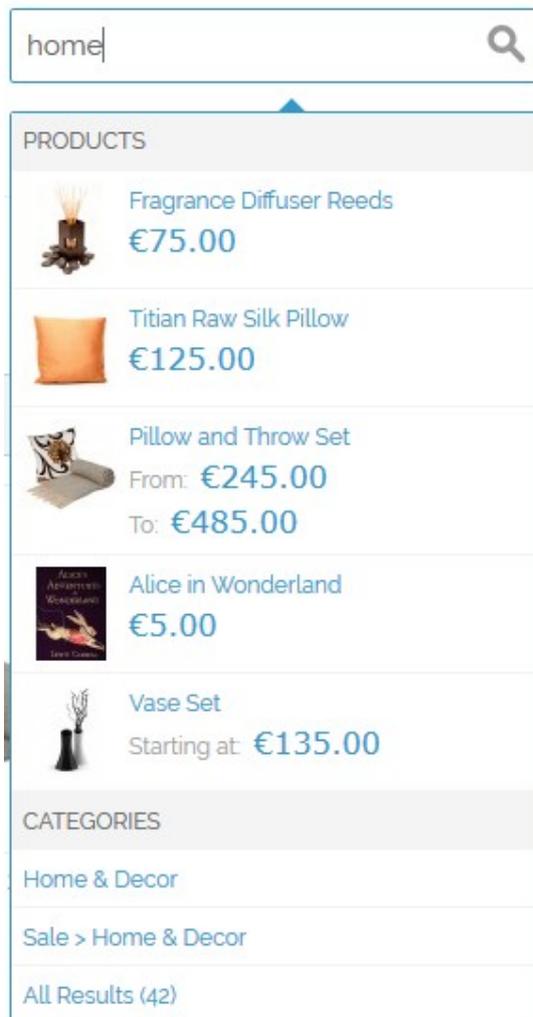
Category Settings

You can **Enable Category Search**. If enabled, categories will then be indexed in Elasticsearch and new parameters will be displayed in the configuration.



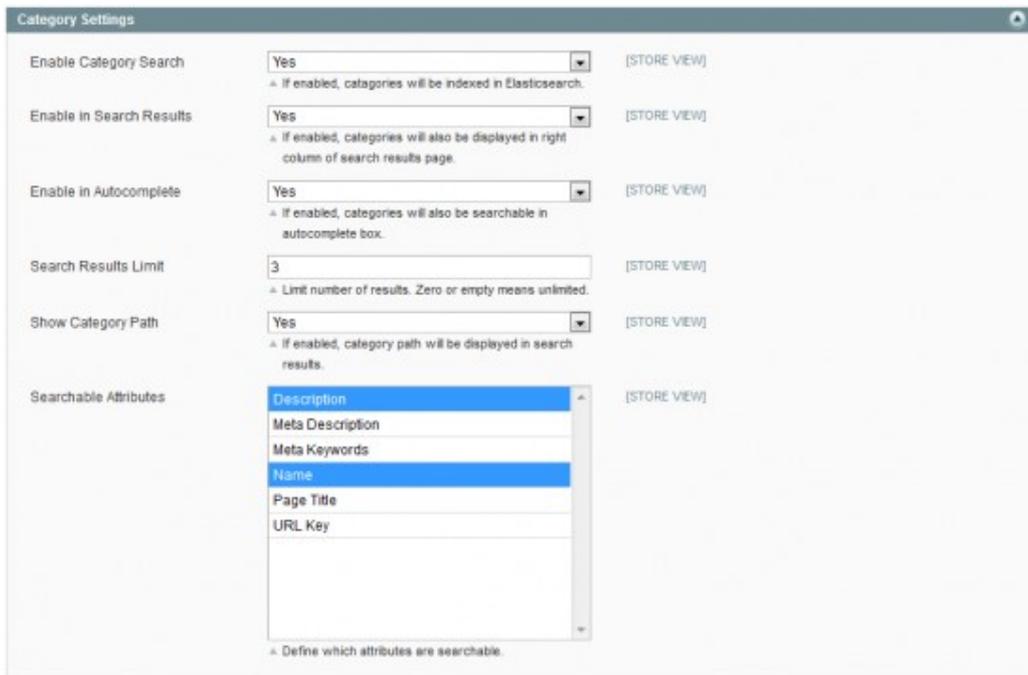
(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-category-search-results.png>)

- **Enable in Search Results:** if enabled, categories will also be displayed in the right column of search results page.
- **Enable in Autocomplete:** if enabled, categories will also be searchable in autocomplete box.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-categories.png>)

- **Search Results Limit:** is the limit number of results that will be displayed in the right column of search results page. Note that 0 or empty field means unlimited.
- **Show Category Path:** If enabled, category path will be displayed in the right column of search results page.
- **Searchable Attributes:** define which category attributes are searchable. For example the Description and the Name.

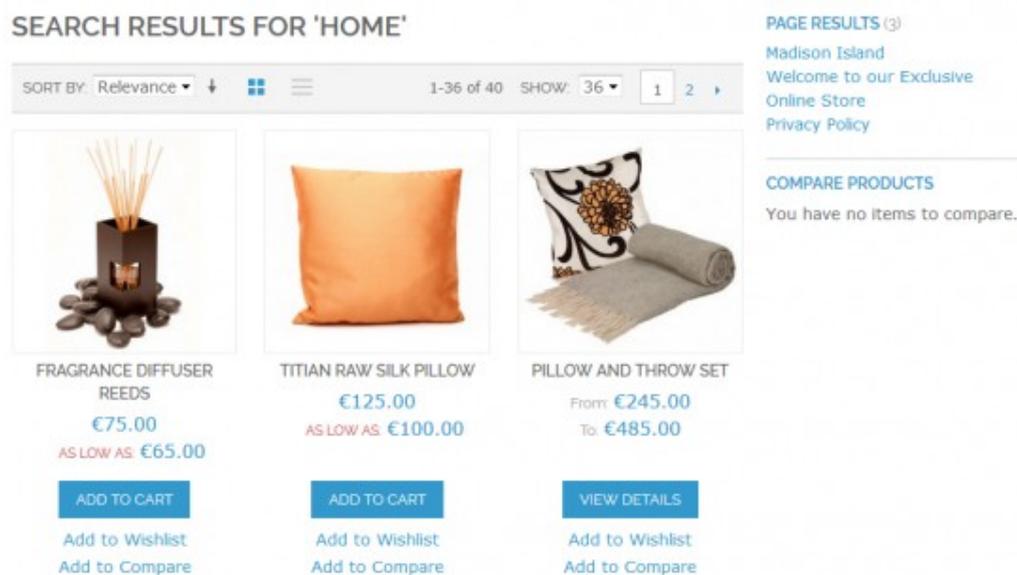


(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-category-settings.png>)

CMS Settings

You can **Enable CMS Search**. If enabled, CMS pages will be indexed in Elasticsearch and new parameters will be displayed in the configuration.

- **Enable in Search Results:** If enabled, CMS pages will also be displayed in the right column of the search results page.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-cms-search-results.png>)

- **Enable in Autocomplete:** If enabled, CMS pages will also be searchable in the autocomplete box.

home 

PRODUCTS

 Fragrance Diffuser Reeds
€75.00

 Titan Raw Silk Pillow
€125.00

 Pillow and Throw Set
From: €245.00
To: €485.00

 Alice in Wonderland
€5.00

 Vase Set
Starting at: €135.00

PAGES

[Madison Island](#)

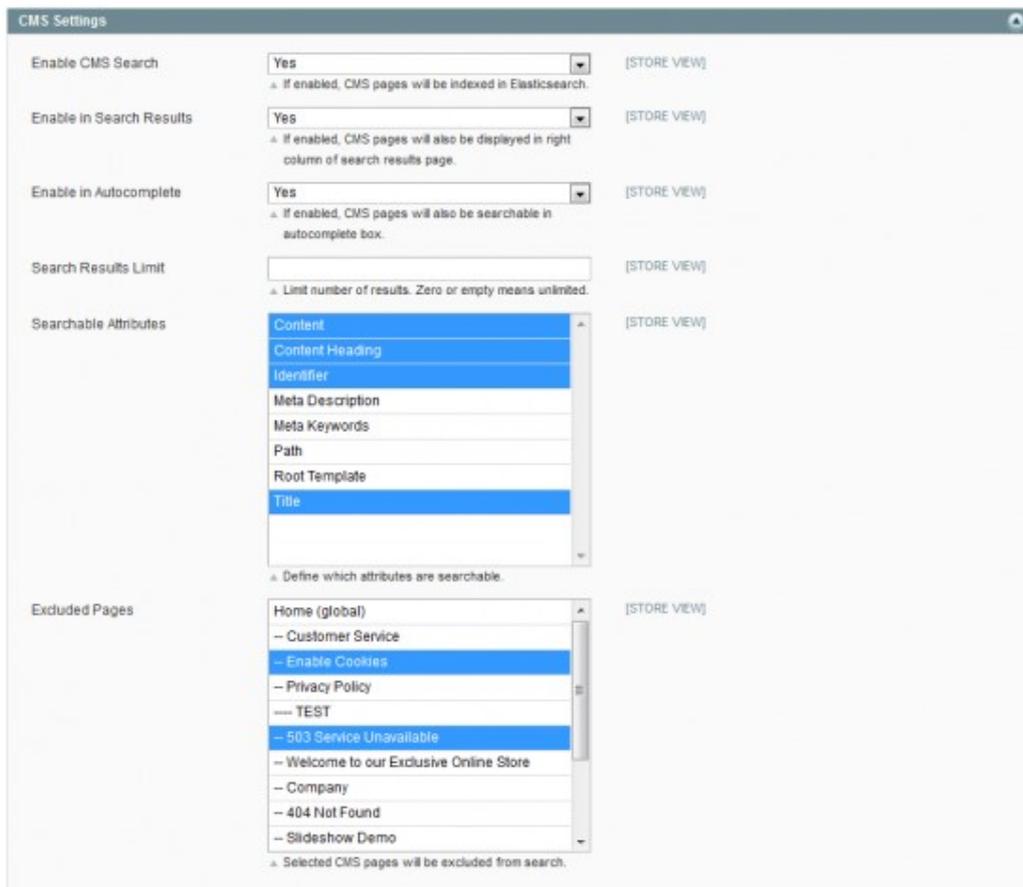
[Welcome to our Exclusive Online Store](#)

[Privacy Policy](#)

[All Results \(43\)](#)

(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-autocomplete-cms.png>)

- **Search Results Limit:** Limit number of results displayed in the right column of the search results page. Note that "0" or empty means unlimited.
- **Searchable Attributes:** Define which attributes are searchable.
- **Excluded Pages:** Selected CMS pages will be excluded from search.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-cms-settings.png>)

STEP 4: Manage the weight of the attributes and product in order to refine the search results

The Elastic Search extension allows you to easily boost your product attributes and products in the search results by giving them a weight.

By product attribute

To define some weight for each one of your attributes, you can go to [CATALOG](#) [ATTRIBUTES](#) [MANAGE](#) [ATTRIBUTES](#) .

Edit the attribute you want. In the **Properties** tab and **Elasticsearch Settings** subtab, you'll be able to define a value from 1 to 10 depending on the weight you want to assign to it.



(<https://www.wyomind.com/pub/media//extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-attribute-search-weight.png>)

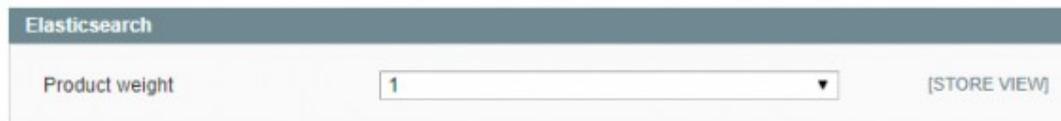
By product

The Elasticsearch extension allows you to easily boost your product in the search results by giving them a weight.

To define some weight for each one of your product, you can go to

➤ PRODUCT ➤ CATALOG ➤ EDIT ➤ ELASTICSEARCH TAB

And apply a weight for the product



The screenshot shows a configuration panel for the Elasticsearch extension. At the top, there is a dark teal header with the text "Elasticsearch". Below the header, the panel is divided into two main sections. The left section is labeled "Product weight" and contains a dropdown menu with the number "1" selected. The right section contains a button labeled "[STORE VIEW]".

(<https://www.wyomind.com/pub/media/extensions/elasticsearch/magento-1/userguide/elasticsearch-magento-product-weight.png>)