

**Search**



**with**



## What is Solr?

## Solr Features

- Full-text Search
- Hit Highlighting
- Faceted Search
- Near Real-time Indexing
- Dynamic Clustering
- Database Integration
- Rich Document Handling
- Geospatial Search

# Installing Solr

## Drupal Modules

- Entity API
- Search API
- Database Search
- Solr Search
- Search Pages
- Search Views
- Facet API
- Search API Autocomplete
- Search Spellcheck

## Install Solr 4.5

- Locally
- Remotely

## Solr Admin UI

The screenshot displays the Apache Solr Admin UI in a browser window. The address bar shows the URL `apache-solr.cern.ch:8983/solr/#/`. The page features a sidebar with navigation options: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, and a Core Selector dropdown.

The main content area is divided into several sections:

- Instance:** Shows the instance was started "about an hour ago".
- Versions:** Lists installed components:
  - `solr-spec 4.5.0`
  - `solr-impl 4.5.0 1527178 - jpountz - 2013-09-28 14:09:37`
  - `lucene-spec 4.5.0`
  - `lucene-impl 4.5.0 1527178 - jpountz - 2013-09-28 14:05:42`
- JVM:** Shows runtime details:
  - Runtime: Oracle Corporation OpenJDK 64-Bit Server VM (1.7.0\_25 23.7-b01)
  - Processors: 2
- System:** Displays overall system metrics:
  - Physical Memory: 49.6% (927.12 MB / 1.83 GB)
  - Swap Space: 0.0% (0.00 MB / 1.94 GB)
  - File Descriptor Count: 1.9% (79 / 4096)
  - JVM-Memory: 10.0% (59.34 MB / 66.56 MB / 592.00 MB)

At the bottom, there are links for Documentation, Issue Tracker, IRC Channel, Community forum, and Solr Query Syntax.

## Search API Configuration (Server)

### Add server

#### Server name \*

Machine name: solr\_server [\[Edit\]](#)

Enter the displayed name for the new server.

 Enabled

Select if the new server will be enabled after creation.

#### Server description

Enter a description for the new server.

#### Service class \*

Choose a service class to use for this server.

#### ▼ SOLR SERVICE

Index items using an Apache Solr search server.

- All field types are supported and indexed in a special way, with URI/String and Integer/Duration being equivalent.
- See [the Solr wiki](#) for information about the "direct" parse mode.
- Supports the search\_api\_facets and search\_api\_multi features.
- Will use internal Solr preprocessors, so Search API preprocessors should for the most part be deactivated.
- See the README.txt file provided with this module for details.

#### HTTP protocol

The HTTP protocol to use for sending queries.

#### Solr host \*

The host name or IP of your Solr server, e.g. localhost or www.example.com.

#### Solr port \*

The Jetty example server is at port 8983, while Tomcat uses 8080 by default.

#### Solr path

The path that identifies the Solr instance to use on the server.

#### ▶ BASIC HTTP AUTHENTICATION

#### ▶ ADVANCED

Create server

## Search API Configuration (Index 1)

### Add index

#### Index name \*

Machine name: solr\_index [\[Edit\]](#)

#### Item type \*

Select the type of items that will be indexed in this index. This setting cannot be changed afterwards.

Enabled

This will only take effect if the selected server is also enabled.

#### Server

Select the server this index should reside on.

Read only

Do not write to this index or track the status of items in this index.

Index items immediately

Immediately index new or updated items instead of waiting for the next cron run. This might have serious performance drawbacks and is generally not advised for larger sites.

#### Cron batch size

Set how many items will be indexed at once when indexing items during a cron run. "0" means that no items will be indexed by cron for this index, "-1" means that cron should index all items at once.

Create index

## Search API Configuration (Index 2)

FIELD	MACHINE NAME	INDEXED	TYPE	BOOST
Node ID	nid	<input type="checkbox"/>		
Revision ID	vid	<input type="checkbox"/>		
Is new	is_new	<input type="checkbox"/>		
Content type	type	<input checked="" type="checkbox"/>	String	
Title	title	<input checked="" type="checkbox"/>	Fulltext	8.0
Language	language	<input type="checkbox"/>		
URL	url	<input type="checkbox"/>		
Edit URL	edit_url	<input type="checkbox"/>		
Status	status	<input checked="" type="checkbox"/>	Boolean	
Promoted to frontpage	promote	<input type="checkbox"/>		
Sticky in lists	sticky	<input type="checkbox"/>		
Date created	created	<input checked="" type="checkbox"/>	Date	
Date changed	changed	<input type="checkbox"/>		
Author	author	<input checked="" type="checkbox"/>	User	

## Search API Configuration (Index 3)

### ▼ DATA ALTERATIONS

Select the alterations that will be executed on indexed items, and their order.

#### Enabled data alterations

- Bundle filter**  
Exclude items from indexing based on their bundle (content type, vocabulary, ...).
- Node access**  
Add node access information to the index.
- Exclude unpublished nodes**  
Exclude unpublished nodes from the index.
- Language control**  
Lets you determine the language of items in the index.
- Complete entity view**  
Adds an additional field containing the whole HTML content of the entity when viewed.
- URL field**  
Adds the item's URL to the indexed data.
- Aggregated fields**  
Gives you the ability to define additional fields, containing data from one or more other fields.
- Index hierarchy**  
Allows to index hierarchical fields along with all their ancestors.

### ▼ PROCESSORS

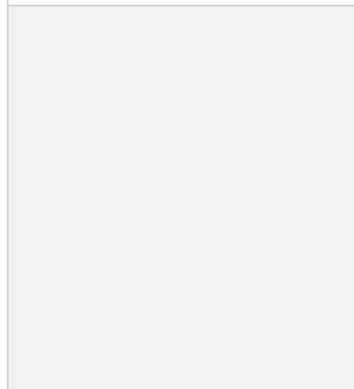
Select processors which will pre- and post-process data at index and search time, and their order. Most processors will only influence fulltext fields, but refer to their individual descriptions for details regarding their effect.

#### Enabled processors

- Ignore case**  
This processor will make searches case-insensitive for fulltext or string fields.
- HTML filter**  
Strips HTML tags from fulltext fields and decodes HTML entities. Use this processor when indexing HTML data, e.g., node bodies for certain text formats. The processor also allows to boost (or ignore) the contents of specific elements.

#### Processor settings

##### HTML filter Enabled



##### Fields to run on

- Content type
- Title
- Status
- Date created
- Author
- Index title attribute**  
If set, the contents of title attributes will be indexed.
- Index alt attribute**  
If set, the alternative text of images will be indexed.



## Search API Configuration (Index 4)

ENABLED	FACET	OPERATIONS
<input type="checkbox"/>	<b>Content Type</b> Filter by content type (Multisite).	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Tags</b> Filter by Tags (Multisite).	<a href="#">configure display</a> ▼
<input checked="" type="checkbox"/>	<b>Content type</b> Filter by Content type.	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Title</b> Filter by Title.	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Site</b> Filter by Site (Multisite).	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Status</b> Filter by Status.	<a href="#">configure display</a> ▼
<input checked="" type="checkbox"/>	<b>Date created</b> Filter by Date created. (Caution: This may perform very poorly for large result sets.)	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Author</b> Filter by Author.	<a href="#">configure display</a> ▼
<input type="checkbox"/>	<b>Node access information</b> Filter by Node access information.	<a href="#">configure display</a> ▼
<input checked="" type="checkbox"/>	<b>Category</b> Filter by Category.	<a href="#">configure display</a> ▼
<input checked="" type="checkbox"/>	<b>Author » User roles</b> Filter by Author » User roles.	<a href="#">configure display</a> ▼

## Add a View (1)

### Add new view

#### View name \*

Solr View  Machine name: solr\_view [\[Edit\]](#)

#### Description

Show  sorted by

#### Create a page

##### Page title

##### Path

<https://home-dev2.web.cern.ch/>

##### Display format

of

##### Items to display

#### Use a pager

Create a menu link

Include an RSS feed

#### Create a block

Save & exit

Continue & edit

Cancel

## Add a View (2)

### Displays

Page

+Add

#### ▼ Page details

Display name: Page

#### TITLE

Title: Search

#### FORMAT

Format: Unformatted list | Settings

Show: Fields | Settings

#### FIELDS

Add ▼

Indexed Node: Title

Indexed Node: Image

Indexed Node: The main body text

Indexed Node: Byline

Indexed Node: Strap

Indexed Node: Date changed

#### FILTER CRITERIA

Add ▼

Search: Fulltext search (exposed)

Indexed Node: Item language (= current)

Indexed Node: Status (= Published)

#### SORT CRITERIA

Add

#### PAGE SETTINGS

Path: /solr-view

Menu: No menu

Access: None

#### HEADER

Add ▼

Global: Result summary

Search: Spellcheck

#### FOOTER

Add

#### PAGER

Use pager: Full | Paged, 20 items

More link: No

## Autocomplete

### SEARCH PAGES

Searches provided by the *Search pages* module.

<input type="checkbox"/>	NAME	OPERATIONS
<input type="checkbox"/>	Public search	

### SEARCH VIEWS

Searches provided by the *Search views* module.

<input type="checkbox"/>	NAME	OPERATIONS
<input checked="" type="checkbox"/>	Solr View	<a href="#">edit</a> <a href="#">delete</a>

Save

## Facets

<a href="#">+</a> Facet API: Search service: Test Index : Category	Sidebar	<a href="#">configure</a>
<a href="#">+</a> Facet API: Search service: Test Index : Content type	Sidebar	<a href="#">configure</a>
<a href="#">+</a> Facet API: Search service: Test Index : Date created	Sidebar	<a href="#">configure</a>

## Search View



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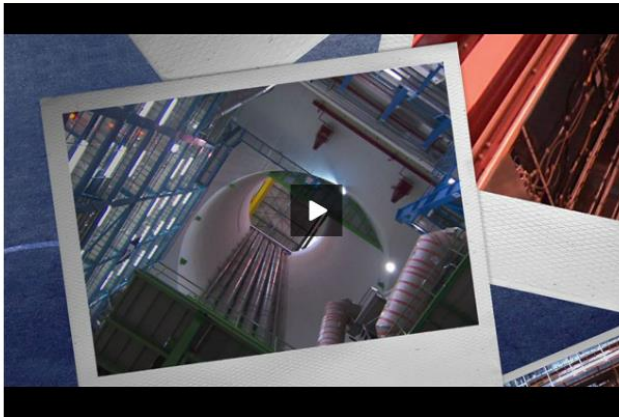
### Search

Displaying 1 - 20 of 804

**Fulltext search**

Apply

#### About CERN



Last updated 13 Feb 2013

#### Member states

The CERN convention was signed in 1953 by the 12 founding states Belgium, Denmark, France, the Federal Republic of Germany, Greece, Italy, the Netherlands,

#### FILTER BY CONTENT TYPE:

- Update - For the public (192)
- Update - For CERN people (102)
- Announcement (91)
- Update - For scientists (75)
- Update - For students & educators (62)
- Image (58)
- Opinion (41)
- Official communication (38)
- Experiment (30)
- Accelerator (17)

Show more

#### FILTER BY DATE CREATED:

- 2013 (432)
- 2012 (370)
- 2010 (1)
- 2011 (1)

Search this site

Search