



European Commission

Installation procedure

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1. OVERALL APPLICATION

The architecture of Joinup is based on several open source components which deliver different services. We distinguished seven components:

- Front End
- Source Code Management
- Build and Artifacts Repository
- File Sharing
- Mailing List
- Indexation and Search

The **Front End** is composed of a Drupal instance based on the Pressflow 6.x core and a database.

The **Source Code Management** is composed of a subversion instance, a database and an Apache HTTPD server.

The **Build and Artifacts Repository** is composed of a maven repository built on Sonatype Nexus instance

The **mailing list** application is a Mailman solution, aimed to offer a service list for the user to manage electronic mail discussion and e-newsletter.

The **indexation and searcher system** is composed by two elements. Apache Solr will index the content coming from the Front-End and Tika will look through the documents attached to the content of the Front End.

2. INSTALLATION

2.1. PREREQUISITES

You need to have an Apache HTTPD instance with php 5.2 interpreter and a MySQL database with InnoDB engine enabled.

2.2. CMS

2.2.1. FILES

The first step is to get the core version of Pressflow 6.

You can find the latest PressFlow 6 version here <http://pressflow.org/> and the installation guide in <https://pressflow.atlassian.net/wiki/display/PF/Pressflow+documentation>

After you have a clean Pressflow core installed, it's time to download the Joinup code itself.

You can export the sites folder from <https://joinup.ec.europa.eu/svn/joinup/tags/V1.4.3.p4/> to the sites folder of the pressflow with any compatible SVN client.

Then, it's time to apply the patches of the core. You can find information about applying patches in this url (<https://drupal.org/patch/apply>):

```
ajax-rebuild_form.inc.patch
messages-in-watchdog_file.inc.patch
proxy-patch_common.inc.patch
proxy-patch_system.admin.inc.admin.inc.patch
proxy-patch_system.module.patch
vulnerability_file.inc.patch
```

Copy the file sites/default/settings_default.php to settings.php.

You also need to fill the sites/default/settings.php file with the following values:

```
// Solr-dedicated, environment-specific configuration
$conf['apachesolr_host'] = 'SOLR_HOST'
$conf['apachesolr_port'] = 'SOLR_PORT';
$conf['apachesolr_path'] = '/joinup-solr';
// The Solr client require a JRE...
$conf['apachesolr_attachments_java'] = 'PATH_TO_JRE_ON_LOCAL_MACHINE';
// JoinUp-specific configuration for the mailing list. It consists in setting the
mailing list domain
$conf['isa_ml_domain'] = 'MAILING_LIST_DOMAIN';
// These variables must be set to zero for the main Drupal website.
// They will be modified for the sub-site when a new virtual forge is created.
$conf['isa_vf_access_tid_virtual_forge'] = 0;
$conf['isa_vf_access_enable_grant'] = 0;
```

2.2.2. DATABASE

In the folder /dbscripts/database_backups/ you will find the copy of the database that you have to import to your mysql server whose configuration we have added in the /sites/default/settings.php

You may also wish to change the admin password:

```
mysql> UPDATE users SET pass = MD5('new password goes here') WHERE uid = 1;
```

2.2.3. INDEXATION AND SEARCH

In order to run the indexation and search service, you need to have:

- Tomcat 6 up and running
- The Front End must have a JRE 6 for the indexation within the attachments.

Move {SOLR_MODULE_FOLDER}/example/solr/conf/schema.xml and rename it to something like schema.bak. Then move the schema.xml that comes with the

ApacheSolr Drupal module to take its place.

Similarly, move {SOLR_MODULE_FOLDER}/example/solr/conf/solrconfig.xml and rename it like solrconfig.bak. Then move the solrconfig.xml that comes with the ApacheSolr Drupal module to take its place.

Finally, move {SOLR_MODULE_FOLDER}/example/solr/conf/protwords.txt and rename it like protwords.bak. Then move the protwords.txt that comes with the ApacheSolr Drupal module to take its place.

Make sure that the conf directory includes the following files - the Solr core may not load if you don't have at least an empty file present:

- solrconfig.xml
- schema.xml
- elevate.xml
- mapping-ISOLatin1Accent.txt
- protwords.txt
- stopwords.txt
- synonyms.txt

Now start the solr application by opening a shell, changing directory to {SOLR_MODULE_FOLDER}/example, and executing the command `java -jar start.jar`

Test that your solr server is now available by visiting

<http://localhost:8983/solr/admin/>

Tomcat Setup

We now need to deploy the Solr application above Tomcat. We will add a new context to the Catalina configuration: `$CATALINA_HOME/conf/Catalina/localhost/solr.xml`. It should contain:

```
<?xml version="1.0" encoding="utf-8"?>
<Context docBase="/path/to/solr/apache-solr.war" debug="1" crossContext="true">
<Environment name="solr/home" type="java.lang.String" value="/path/to/solr/"
override="true"/>
</Context>
```

Restart Tomcat.

You solr application is now available at the URL http://TOMCAT_SOLR_HOST:TOMCAT_SOLR_PORT/solr.

Link of Solr on the Front End

Tika is already available in the source available for the front end (folder sites/all/modules/contributed/modified/apachesolr_attachments/tika/). In order to activate it, you have to set up the following elements in the settings.php configuration file of the Front End application

```
// Solr-dedicated, environment-specific configuration
$conf['apachesolr_host'] = 'TOMCAT_SOLR_HOST'; //Host which handle the solr
configuration
$conf['apachesolr_port'] = 'TOMCAT_SOLR_PORT';
$conf['apachesolr_path'] = '/solr';
// Tika requires a JRE
$conf['apachesolr_attachments_java'] = '/path/to/jre/6/bin/java';
```