

Solr installation

Contents

- Prerequisites 3
- Installation 3
- Configuration 3
- Create a core 3
- Delete a core 4
- Firewall the ports 4

Prerequisites

Install java and some utilities.

```
apt-get install default-jre-headless unzip lsof curl
```

Installation

Download the tarball from <http://lucene.apache.org/solr/> and unpack it in /opt/, symlinking it to /opt/solr.

```
lrwxrwxrwx 1 root root 11 Oct 1 08:23 solr -> solr-5.3.1/
drwxr-xr-x 9 root root 4.0K Oct 1 08:23 solr-5.3.1
-rw-r--r-- 1 root root 129M Oct 1 08:23 solr-5.3.1.tgz
-rw-r--r-- 1 root root 57 Oct 1 08:24 solr-5.3.1.tgz.sha1
```

Then symlink /opt/solr/bin/solr to /usr/local/bin/solr.

Configuration

If you now try to start it as a normal user who wants its own instance, it will die, because it will try to write files (log, pids, indexes) in directories which belong to root.

So create a dedicated directory under \$HOME and do:

```
mkdir -p $HOME/solr/{solr,pids,logs}
cp /opt/solr/server/solr/solr.xml $HOME/solr/solr
export SOLR_LOGS_DIR=$HOME/solr/logs
export SOLR_PID_DIR=$HOME/solr/pids
export SOLR_HOME=$HOME/solr/solr
export SOLR_PORT=9213
solr start
solr status
```

You can also pack the setting in a file and export SOLR_INCLUDE=/path/to/setting/file instead. This way you can set the log dir, the pid dir, the data directory and the port.

Create a core

Let's assume you want a core named `mysite`.

```
solr create_core -c mysite -d sample_techproducts_configs -p 9213
```

Then update the `schema.xml` found in `$HOME/solr/solr/mysite/conf/schema.xml` with your definitions.

You can also provide to the `-d` switch a directory with your configuration.

Pass the `-p` option if you have more solr instance, for some reason `create_core` seems to ignore the `SOLR_PORT` environment variable.

The `solr_url` to pass to modules like `WebService::Solr` will become: `http://localhost:9213/solr/mysite`

Delete a core

```
solr delete -c mysite
```

Firewall the ports

By default, solr listen to all the interfaces, so be sure to firewall them once finished.

Linuxia Wiki

Solr installation

wiki.linuxia.de