

Creating Solr Collection

- 1: check to what all instance Solr is available from Cloudera Manager.
- 2: go to that node and locate solr.keytab
- 3: once you have the key tab, kinit using the keytab
- 4: Now locate SOLR folder on the node or you can create your own /home/asingsh57/solr (this is the place where you will be creating the collection and pushing it to Solr)
- 5: Go there and run below command .

```
=====
solrctl instancedir --generate epiin_proj75_ph_search_c01 $HOME/solr_configs
```

epiin_proj75_ph_search_c01 this is the Solr collection names : appcode_projno_groupof companies_Search_C01 → Example : 1mdr_81_md_search_c01 ; c01,c02 are number of collections .

now, epiin_proj75_ph_search_c01 is the solr collection that we are creating. So, u need to find the name for the one you are going to connect.

- 6: The above command will create a folder like below:

```
[root@itsusraedlq03:/home/asingsh57/solr]#
```

```
drwxr-xr-x 3 root root 4096 Sep 18 11:35 epiin_proj75_ph_search_c01
```

give 777 permission to this folder even to Solr folder as well .

- 7: now go inside the folder /home/asingsh57/solr/epiin_proj75_ph_search_c01/conf

```
total 384
```

```
-rw-r--r-- 1 root root 1092 Sep 18 11:35 admin-extra.html
```

```
-rw-r--r-- 1 root root 953 Sep 18 11:35 admin-extra.menu-bottom.html
```

```
-rw-r--r-- 1 root root 951 Sep 18 11:35 admin-extra.menu-top.html
```

```
drwxr-xr-x 3 root root 4096 Sep 18 11:35 clustering
```

```
-rw-r--r-- 1 root root 4041 Sep 18 11:35 currency.xml
```

```
-rw-r--r-- 1 root root 1386 Sep 18 11:35 elevate.xml
```

```
drwxr-xr-x 2 root root 4096 Sep 18 11:35 lang
```

```
-rw-r--r-- 1 root root 82327 Sep 18 11:35 mapping-FoldToASCII.txt
-rw-r--r-- 1 root root 3114 Sep 18 11:35 mapping-ISOLatin1Accent.txt
-rw-r--r-- 1 root root 894 Sep 18 11:35 protwords.txt
-rw-r--r-- 1 root root 34 Sep 18 11:35 _rest_managed.json
-rw-r--r-- 1 root root 488 Sep 18 11:35 _schema_analysis_stopwords_english.json
-rw-r--r-- 1 root root 183 Sep 18 11:35 _schema_analysis_synonyms_english.json
-rw-r--r-- 1 root root 58880 Sep 18 11:35 schema.xml
-rw-r--r-- 1 root root 921 Sep 18 11:35 scripts.conf
-rw-r--r-- 1 root root 73025 Sep 18 11:35 solrconfig.xml
-rw-r--r-- 1 root root 75375 Sep 18 11:35 solrconfig.xml.secure
-rw-r--r-- 1 root root 16 Sep 18 11:35 spellings.txt
-rw-r--r-- 1 root root 795 Sep 18 11:35 stopwords.txt
-rw-r--r-- 1 root root 1148 Sep 18 11:35 synonyms.txt
-rw-r--r-- 1 root root 1469 Sep 18 11:35 update-script.js
drwxr-xr-x 2 root root 4096 Sep 18 11:35 velocity
drwxr-xr-x 2 root root 4096 Sep 18 11:35 xslt
```

8: Take the backup of below 2 files in Your home directory for safety.

```
cd /home/asingh57/solr/epiin_proj75_ph_search_c01/conf
```

```
-rw-r--r-- 1 root root 73025 Sep 18 11:35 solrconfig.xml
-rw-r--r-- 1 root root 75375 Sep 18 11:35 solrconfig.xml.secure
```

9: now Change the names: of `solrconfig.xml.secure` to `solrconfig.xml`

```
#-> mv solrconfig.xml.secure solrconfig.xml
```

10: Now go back to solr directory where you see all the collections:

```
[root@itsusraedlq03:/home/asingh57/solr]#
```

total 44

```
drwxrwxrwx 3 root root 4096 Aug  3 2015 e2emf_proj01_can_sap_token
```

```
drwxrwxrwx 3 root root 4096 Aug  3 2015 gbt_proj01_gbt_atlas
```

```
drwxrwxrwx 3 root root 4096 Aug  3 2015 gbt_proj01_gbt_solr
```

```
drwxr-xr-x 3 root root 4096 Sep 18 11:35 epiin_proj75_ph_search_c01
```

```
drwxrwxrwx 3 root root 4096 Feb  6 2016 smartfind_proj01_smart_find
```

```
drwxrwxrwx 3 root root 4096 Feb 12 2016 smartfind_proj01_smart_find01
```

```
drwxrwxrwx 3 root root 4096 Jan 21 2016 smart_it_proj27_java
```

```
drwxrwxrwx 3 root root 4096 Jan 15 2016 smart_it_proj27_linuxsyslog
```

```
drwxrwxrwx 3 root root 4096 Jan 15 2016 smart_it_proj27_oracle
```

```
drwxrwxrwx 3 root root 4096 Jan 15 2016 smart_it_proj27_url
```

```
drwxrwxrwx 3 root root 4096 Jan 15 2016 smart_it_proj27_winsyslog
```

11: And run the below commands:

```
solrctl instancedir --create epiin_proj75_ph_search_c01 epiin_proj75_ph_search_c01/conf
```

and

```
solrctl collection --create epiin_proj75_ph_search_c01 -s 1 -c epiin_proj75_ph_search_c01
```

```
#-> solrctl instancedir --create epiin_proj75_ph_search_c01 epiin_proj75_ph_search_c01/conf
```

```
Uploading configs from epiin_proj75_ph_search_c01/conf to
```

```
itsusraedlq03.jnj.com:2181,itsusraedlq01.jnj.com:2181,itsusraedlq02.jnj.com:2181/solr. This may take  
up to a minute.
```

```
[root@itsusraedlq03:/home/asingh57/solr]#
```

```
#-> solrctl collection --create epiin_proj75_ph_search_c01 -s 1 -c epiin_proj75_ph_search_c01
```

```
[root@itsusraedlq03:/home/asingh57/solr]#
```

12: Change the permissions to 771 recursive.

13: Please copy the below file to your local directory from hdfs

```
[root@itsusraedlq03:/home/asingh57]#
```

```
#-> hdfs dfs -get /user/solr/sentry/sentry-provider.ini .
```

14: Make changes to the file as below: **Be Very Careful**

This **sentry-provider.ini** is sentry file for SOLR. Whatever we mention here will have access accordingly. **Do not touch any thing inside the file except what you plant to create.**

In the sentry file make changes like below, keep one copy of the file to revert if something goes wrong.

There are 2 parts in the file. Ad groups mapping to role and Collection mapping to roles.

1st part: We add only AD Groups. Like below in first para we add ad groups who should have access to the collection. This is where we map ad group to EDL roles like we do for hue this is for Solr.

Only what is mapped here will have access to the solr.

```
[groups]
```

```
hue = its_admin
```

```
its-app-edl-dev-proj75-etl-sa = epiin_proj75_etl_role
```

```
its-app-edl-dev-proj75-dvlpr-usr = epiin_proj75_dvlpr_role
```

```
its-app-edl-dev-proj75-suppl-usr = epiin_proj75_suppl_role
```

15: And add the below lines at the end as Second where we map the role to collections. Once you look inside the ini file you will have completed idea how they are arranged.

```
mdse_proj75_etl_role = \
```

```
collection=admin, \
```

```
collection=epiin_proj75_ph_search_c01
```

The Role name should be exactly what we have in Hue.

The INI file looks like below

[groups]

hue = its_admin

its-app-edl-dev-proj01-etl-sa = proj01_admin_role

its-app-edl-dev-proj27-etl-sa = proj27_admin_role

its-app-edl-dev-proj75-etl-sa = mdse_proj75_etl_role

[roles]

its_admin = \

collection=admin, \

collection=*

proj01_admin_role = \

collection=admin, \

collection=e2emf_proj01_can_sap, \

collection=e2emf_proj01_can_jde, \

collection=e2emf_proj01_can_gp, \

collection=e2emf_proj01_can_jde_token, \

collection=e2emf_proj01_can_gp_token, \

collection=e2emf_proj01_can_sap_token, \

collection=gbt_proj01_gbt_atlas, \

collection=gbt_proj01_gbt_solr, \

collection=smartfind_proj01_smart_find, \

collection=smartfind_proj01_smart_find01

proj27_admin_role = \

collection=admin, \

collection=smart_it_proj27_java, \

collection=smart_it_proj27_linuxsyslog, \

collection=smart_it_proj27_oracle, \

collection=smart_it_proj27_url, \

collection=smart_it_proj27_winsyslog

epiin_proj75_etl_role = \

collection=admin, \

collection=epiin_proj75_ph_search_c01

```
epiin_proj75_dvlpr_role = \  
collection=admin, \  
collection=epiin_proj75_ph_search_c01
```

17: Now take the back up again of the old file on /user/solr/sentry/sentry-provider.ini .

18: And then paste the changed file from your home directory to the above location.

19: check the file again that pasting is done correctly .

20: Then restart the Solr and then sentry from CM one by one.

You can check the Solr collection from Hue. If you can see it in Hue, you are good to go ask user to check and confirm.

Created by	Created on
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