

Testing Solr Shards

These notes detail how to test and manipulate SOLR statistics shards.

Testing CSV Export

The SOLR Admin Console provides a mechanism to test the CSV Export Process and Parameters

CSV Output is returned

Multi-value field is returned with a comma separator (default) and a double quote encapsulator (default when separator is present)

3 fields chosen to simplify display

Triggers CSV output

Testing CSV Import

The SOLR Admin Console provides a mechanism to access the CSV Upload process. Unfortunately, it does not all parameters to be provided.

Trigger CSV import

Note that there is no way to set import params

Status: success
Response: {
 "responseHeader": {
 "status": 0,
 "QTime": 32
 }
}

Note that the multi-value field is corrupted if you import by this manner.

Apache Solr Admin Console interface showing a query result for the 'statistics-2006' core. The 'owningComm' field is highlighted in yellow, and a red callout box notes that it is no longer an array.

```

{
  "q": "",
  "n": "1485464107796",
  "wt": "json"
},
{
  "response": {
    "numFound": 1,
    "start": 0,
    "docs": [
      {
        "uid": "32c0ec9b-c39d-482e-ae57-e73132800ab4",
        "time": "2007-04-20T14:08:03.789Z",
        "owningComm": [
          "4,1,1"
        ],
        "_version_": 1557621909527462000,
        "statistics_type": "view"
      }
    ]
  }
}

```

Note that owningComm is no longer an array

It is possible to csv import parameters using curl.

Running CSV Upload with curl

```
curl -F "data=@statistics-2006_export_2007-04.csv" "http://localhost/solr/statistics-2006/update/csv?skip=_version_&csv.mv.escape=%5C&f.owningColl.split=true&f.owningColl.separator=%7C&f.owningComm.split=true&f.owningComm.separator=,&f.owningItem.split=true&f.owningItem.separator=%7C&f.bundleName.split=true&f.bundleName.separator=%7C&stream.contentType=text%2Fcsv%3Bcharset%3Dutf-8&commit=true&softCommit=false&waitSearcher=true&wt=java&version=2"
```

Creating a Shard in the Admin Console

While this is probably not necessary, it is possible to create an empty shard in the Solr Admin console.

Note that existing shards use the statistics directory as an "instance" directory.

Apache Solr Admin Console interface showing the 'Core Admin' section. The 'statistics-2006' core is selected, and its configuration is displayed. The 'instanceDir' and 'dataDir' fields are highlighted in yellow.

Core	Start Time	Instance Dir	Data Dir
statistics-2006	41 minutes ago	/opt/dspace/solr/statistics/	/opt/dspace/solr/statistics-2006/data/

Index	Last Modified	Version	Num Docs	Max Doc	Deleted Docs	Optimized	Current
statistics-2006	8 months ago	115	1	1	-	✓	✓

Manually create a new shard



Dashboard

Logging

Core Admin

Java Properties

Thread Dump

Core Selector

+ Add Core

✖ Unload

🔄 Rename

name: statistics-1976

instanceDir: statistics

dataDir: [dspace-install]/solr/statistics-1976

config: solrconfig.xml

schema: schema.xml

ⓘ instanceDir and dataDir need to exist before you can create the core

✔ Add Core

✖ Cancel

statistics-2015

optimized:

The new shard can be queried like the other ones



Dashboard

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Thread Dump

statistics-1976

Overview

Analysis

Dataimport

Documents

Files

Ping

Plugins / Stats

Query

Replication

Schema Browser

/select

— common —

q

:

fq

sort

start, rows

0

10

fl

df

Raw Query Parameters

key1=val1&key2=val2

wt

json

☒ indent

☐ debugQuery

```
{
  "responseHeader": {
    "status": 0,
    "QTime": 1,
    "params": {
      "indent": "true",
      "q": "*:*",
      "_": "1485466236243",
      "wt": "json"
    }
  },
  "response": {
    "numFound": 0,
    "start": 0,
    "docs": []
  }
}
```