SolrOperationsTools

This document describes the ssh/rsync based replication available since Solr1.1 **This mechanism only works on systems that support removing open hard links**.

⚠️ These Scripts were superseded by the ReplicationHandler Java implementation of index replication that works over HTTP and was introduced in Solr1.4 , and are no longer actively maintained. ⚠️

basic Solr scripts

These scripts are used to manage the index data on the Solr server:

Name	Description
abc	Atomic Backup post-Commit tells the Solr server to perform a commit. A snapshot of the index directory is made after the commit if the Solr server is configured to do so (by enabling the **postCommit** event listener in **solr/conf/solrconfig.xml**). A backup of the most recent snapshot directory is then made if the commit is successful. Backup directories are named **backup.*yyyymmddHHMMSS*** where *yyyymmddHHMMSS* is the timestamp of when the snaphot was taken.
abo	Atomic Backup post-Optimize tells the Solr server to perform an optimize. A snapshot of the index directory is made after the optimize if the Solr server is configured to do so (by enabling the **postCommit** or **postOptimize** event listener in **solr/conf/solrconfig.xml**). A backup of the most recent snapshot directory is then made if the optimize is successful. Backup directories are named **backup.*yyyymmddHHMMSS*** where *yyyymmddHHMMSS* is the timestamp of when the snaphot was taken.
backup	Backup the index directory using hard links. Backup directories are named **backup.*yyyymmddHHMMSS*** where *yyyymmddHHMMSS* is the timestamp of when the backup was taken.
backupcleaner	Runs as a cron job to remove backups more than a configurable number of days old or all backups except for the most recent n number of backups. Also can be run manually.
commit	Issues a commit to the Solr server. This will also cause a snapshot to be created if the Solr server is configured to take a snapshot after a commit (by enabling the **postCommit** event listener in **solr/conf/solrconfig.xml**).
optimize	Issues an optimize to the Solr server. **Note**: Optimization may take up to several minutes depending on the size of the index. This will also causes a snapshot to be created if the Solr server is configured to take a snapshot after an optimize (by enabling the **postCommit** or **postOptimize** event listener in **solr/conf/solrconfig.xml**).
readercycle	tells the Solr server to close its current reader and open a new one. This has the effect of making any recent updates and deletions visible to the new reader.

abc

```
usage: abc [-h hostname] [-p port] [-d dir] [-w webapp_name] [-u username] [-U url] [-v] [-V]
       -h          specify Solr hostname (defaults to localhost)
       -p          specify Solr port number
       -w          specify name of Solr webapp (defaults to solr)
       -u          specify user to sudo to before running script
       -U          specify full update url (overrides -h,-p,-w parameters)
       -d          specify directory holding index data (defaults to data)
       -v          increase verbosity
       -V          output debugging info
```

abo

```
usage: abo [-h hostname] [-p port] [-d dir] [-w webapp_name] [-u username] [-U url] [-v] [-V]
       -h          specify Solr hostname (defaults to localhost)
       -p          specify Solr port number
       -w          specify name of Solr webapp (defaults to solr)
       -u          specify user to sudo to before running script
       -U          specify full update url (overrides -h,-p,-w parameters)
       -d          specify directory holding index data (defaults to data)
       -v          increase verbosity
       -V          output debugging info
```

backup

```
usage: backup [-d dir] [-u username] [-v]
       -d          specify directory holding index data
       -u          specify user to sudo to before running script
       -v          increase verbosity
       -V          output debugging info
```

backupcleaner

```
usage: backupcleaner -D <days> | -N <num> [-d dir] [-u username] [-v]
       -D <days>   cleanup backups more than <days> days old
       -N <num>    keep the most recent <num> number of backups and
                   cleanup up the remaining ones that are not being pulled
       -d          specify directory holding index data
       -u          specify user to sudo to before running script
       -v          increase verbosity
       -V          output debugging info
```

commit

```
usage: commit [-h hostname] [-p port] [-w webapp_name] [-u username] [-U url] [-v] [-V]
       -h          specify Solr hostname (defaults to localhost)
       -p          specify Solr port number
       -w          specify name of Solr webapp (defaults to solr)
       -u          specify user to sudo to before running script
       -U          specify full update url (overrides -h,-p,-w parameters)
       -v          increase verbosity
       -V          output debugging info
```

optimize

```
usage: optimize [-h hostname] [-p port] [-w webapp_name] [-u username] [-U url] [-v] [-V]
       -h          specify Solr hostname (defaults to localhost)
       -p          specify Solr port number
       -w          specify name of Solr webapp (defaults to solr)
       -u          specify user to sudo to before running script
       -U          specify full update url (overrides -h,-p,-w parameters)
       -v          increase verbosity
       -V          output debugging info
```

readercycle

```
usage: readercycle [-p hostname] [-p port] [-w webapp_name] [-u username] [-U url] [-v] [-V]
       -h          specify Solr hostname (defaults to localhost)
       -p          specify Solr port number
       -w          specify name of Solr webapp (defaults to solr)
       -u          specify user to sudo to before running script
       -U          specify full update url (overrides -h,-p,-w parameters)
       -v          increase verbosity
       -V          output debugging info
```

Solr collection distribution scripts

These scripts are run on the master and slave Solr servers to

- create and deliver snapshots from the master to the slave(s)
- install snapshot on the slave(s)
- report distribution statistics and status from slave(s) to master

They are documented in SolrCollectionDistributionScripts.