

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⚠ These Scripts were superseded by the [ReplicationHandler](#) Java implementation of index replication that works over HTTP and was introduced in [Solr1.4](#) , and are no longer actively maintained.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

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## basic Solr scripts

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

Na me	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 <b>postCommit</b> event listener in <b><code>solr/conf/solrconfig.xml</code></b> ). A backup of the most recent snapshot directory is then made if the commit is successful. Backup directories are named <b><code>backup.yyyymmddHHMMSS</code></b> where <i>yyymmddHHMMSS</i> is the timestamp of when the snapshot 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 <b>postCommit</b> or <b>postOptimize</b> event listener in <b><code>solr/conf/solrconfig.xml</code></b> ). A backup of the most recent snapshot directory is then made if the optimize is successful. Backup directories are named <b><code>backup.yyyymmddHHMMSS</code></b> where <i>yyymmddHHMMSS</i> is the timestamp of when the snapshot was taken.
ba ck up	Backup the index directory using hard links. Backup directories are named <b><code>backup.yyyymmddHHMMSS</code></b> where <i>yyymmddHHMMSS</i> is the timestamp of when the backup was taken.
ba ck up cle an er	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.
co m mit	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 <b>p ostCommit</b> event listener in <b><code>solr/conf/solrconfig.xml</code></b> ).
opt imi ze	Issues an optimize to the Solr server. <b>Note:</b> 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 <b>postCommit</b> or <b>postOptimize</b> event listener in <b><code>solr/conf/solrconfig.xml</code></b> ).
rea der cy cle	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](#).