

rsync Usage

```
rsync [OPTION]... SRC [SRC]... DEST
rsync [OPTION]... SRC [SRC]... [USER@]HOST:DEST
rsync [OPTION]... SRC [SRC]... [USER@]HOST::DEST
rsync [OPTION]... SRC [SRC]... rsync://[USER@]HOST[:PORT]/DEST
rsync [OPTION]... [USER@]HOST:SRC [DEST]
rsync [OPTION]... [USER@]HOST::SRC [DEST]
rsync [OPTION]... rsync://[USER@]HOST[:PORT]/SRC [DEST]
```

The ':' usages connect via remote shell, while '::' & 'rsync://' usages connect to an rsync daemon, and require SRC or DEST to start with a module name.

rsync Options

```
--verbose, -v    increase verbosity
--quiet, -q      suppress non-error messages
--no-motd        suppress daemon-mode MOTD (see manpage caveat)
--checksum, -c   skip based on checksum, not mod-time & size
--archive, -a     archive mode; equals -rlptgoD (no -H, -A, -X)
--no-OPTION      turn off an implied OPTION (e.g. --no-D)
--recursive, -r  recurse into directories
--relative, -R   use relative path names
--no-implied-dirs don't send implied dirs with --relative
--backup, -b     make backups (see --suffix & --backup-dir)
--backup-dir=DIR make backups into hierarchy based in DIR
--suffix=SUFFIX  set backup suffix (default ~ w/o --backup-dir)
--update, -u     skip files that are newer on the receiver
--inplace        update destination files in-place (SEE MAN PAGE)
--append         append data onto shorter files
--append-verify  like --append, but with old data in file checksum
--dirs, -d       transfer directories without recursing
--links, -l      copy symlinks as symlinks
--copy-links, -L transform symlink into referent file/dir
--copy-unsafe-links only "unsafe" symlinks are transformed
--safe-links     ignore symlinks that point outside the source tree
--copy-dirs, -k  transform symlink to a dir into referent dir
--keep-dirs, -K treat symlinked dir on receiver as dir
--hard-links, -- preserve hard links
```

rsync Options contd.


```
--sparse, -S     handle sparse files efficiently
--dry-run, -n     perform a trial run with no changes made
--whole-file, -W copy files whole (without delta-xfer algorithm)
--one-file-system, -x don't cross filesystem boundaries
--block-size=SIZE force a fixed checksum block-size
--rsh=COMMAND specify the remote shell to use
--rsync-path=PROGRAM specify the rsync to run on the remote machine
--existing         skip creating new files on receiver
--ignore-existing skip updating files that already exist on receiver
--remove-source-files sender removes synchronized files (non-dirs)
--del             an alias for --delete-during
--delete          delete extraneous files from destination dirs
--delete-before   receiver deletes before transfer, not during
--delete-during   receiver deletes during transfer (default)
--delete-delay    find deletions during, delete after
--delete-after    receiver deletes after transfer, not during
--delete-excluded also delete excluded files from destination dirs
--ignore-errors   delete even if there are I/O errors
--force           force deletion of directories even if not empty
--max-delete=NUM don't delete more than NUM files
--max-size=SIZE  don't transfer any file larger than SIZE
--min-size=SIZE  don't transfer any file smaller than SIZE
--partial         keep partially transferred files
--partial-dir=DIR put a partially transferred file into DIR
--delay-updates   put all updated files into place at transfer's end
--prune-empty-dirs, -m prune empty directory chains from the file-list
--numeric-ids     don't map uid/gid values by user/group name
--timeout=SECONDS set I/O timeout in seconds
--contimeout     set daemon connection timeout in seconds
--ignore-times, -I don't skip files that match in size and mod-time
--size-only       skip files that match in size
--modify-win      compare mod-times with reduced
```

rsync Options cont'd.

```
--compress-level=NUM explicitly set compression level
--skip-compress=LIST skip compressing files with a suffix in LIST
--cvs-exclude, -C auto-ignore files the same way CVS does
--filter=RULE, -f add a file-filtering RULE
-F same as --filter='dir-merge /rsync-c-filter'
repeated: --filter='- .rsync-filter'
--exclude=PATTERN exclude files matching PATTERN
--exclude-from=FILE read exclude patterns from FILE
--include=PATTERN don't exclude files matching PATTERN
--include-from=FILE read include patterns from FILE
--files-from=FILE read list of source-file names from FILE
--from0, -0       all *-from/filter files are delimited by 0s
--protect-args, -s no space-splitting; only wildcard special-chars
--address=ADDRESS bind address for outgoing socket to daemon
--port=PORT       specify double-colon alternate port number
--sockopts=OPTIONS specify custom TCP options
--blocking-io     use blocking I/O for the remote shell
--stats           give some file-transfer stats
--8-bit-output, -8 leave high-bit chars unescaped in output
--human-readable, -h output numbers in a human-readable format
--progress        show progress during transfer
-P same as --partial --progress
--itemize-changes, -i output a change-summary for all updates
--out-format=FORMAT output a change-summary for all updates
--log-file=FILE log what we're doing to the specified FILE
--log-file-format=FMT log updates using the specified FMT
--password-file=FILE read daemon-access password from FILE
--list-only       list the files instead of copying them
--bwlimit=KBPS limit I/O bandwidth; KBytes per second
--write-batch=FILE write a batched update to FILE
--only-write-batch like --write-batch but w/o
```

-H	
--perms, -p	preserve permissions
--executability, -E	preserve the file's executability
--chmod=CHMOD	affect file and/or directory permissions
--acls, -A	preserve ACLs (implies --perms)
--xattrs, -X	preserve extended attributes
--owner, -o	preserve owner (super-user only)
--group, -g	preserve group
--devices	preserve device files (super-user only)
--specials	preserve special files
-D	same as --devices --special
--times, -t	preserve modification times
--omit-dir-times, -O	omit directories from --times
--super	receiver attempts super-user activities
--fake-super	store/recover privileged attrs using xattrs

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dow=NUM	accuracy
--temp-dir, -T	create temporary files in directory DIR
--fuzzy, -y	find similar file for basis if no dest file
--compare-dest=DIR	also compare destination files relative to DIR
--copy-dest=DIR	... and include copies of unchanged files
--link-dest=DIR	hardlink to files in DIR when unchanged
--compress, -z	compress file data during the transfer

Cheat Sheet

This cheat sheet was published on 27th March, 2012 and was last updated on 27th March, 2012.

=FILE	updating destination
--read-batch=FILE	read a batched update from FILE
--protocol=NUM	force an older protocol version to be used
--iconv=CONVERT_SPEC	request charset conversion of filenames
--ipv4, -4	prefer IPv4
--ipv6, -6	prefer IPv6
--version	print version number
--help, -h	show this help (-h works with no other options)
Please see the rsync(1) and rsyncd.conf(5) man pages for full documentation. See http://rsync.samba.org/ for updates, bug reports, and answers	

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