

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

-- increase verbosity
verbose,
-v

--quiet, -q suppress non-error messages

--no-motd suppress daemon-mode MOTD
(see manpage caveat)

-- skip based on checksum, not mod-
checksum time & size
, -c

--archive, archive mode; equals -rlptgoD (no
-a -H,-A,-X)

--no-OPTION turn off an implied OPTION (e.g. --
no-D)

-- recurse into directories
recursive,
-r

-- use relative path names
relative, -
R

--no-implied-dirs don't send implied dirs with --
relative

--backup, make backups (see --suffix & --
-b backup-dir)

rsync Options (cont)

-- make backups into hierarchy
backup-dir= based in DIR
DIR

-- set backup suffix (default ~ w/o
suffix=SUF --backup-dir)
FIX

--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

-- like --append, but with old data
append-verify in file checksum

--dirs, -d transfer directories without
recurring

--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-dirlinks, -k transform symlink to a dir into
referent dir

--keep-dirlinks, -K treat symlinked dir on receiver
as dir

--hard-links, preserve hard links
-H

--perms, -p preserve permissions

-- preserve the file's executability
executability
, -E

-- affect file and/or directory
chmod=CH permissions
MOD

rsync Options (cont)

--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

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-
transfer algorithm)

--one-file-system, -x don't cross filesystem
boundaries

--block-size=SIZE force a fixed checksum block-
size

-- specify the remote shell to use
rsh=COMMA
ND, -e



rsync Options contd. (cont)

--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

rsync Options contd. (cont)

--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=SECONDS	set daemon connection timeout in seconds
--ignore-times, -l	don't skip files that match in size and mod-time
--size-only	skip files that match in size
--modify-window=NUM	compare mod-times with reduced 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

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-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



rsync Options cont'd. (cont)

--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=FILE	like --write-batch but w/o updating destination
--read-batch=FILE	read a batched update from FILE

rsync Options cont'd. (cont)

--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



By **Richard Holloway** (richardjh)
cheatography.com/richardjh/
richardjh.org

Published 27th March, 2012.
 Last updated 5th June, 2014.
 Page 3 of 3.

Sponsored by **Readability-Score.com**
 Measure your website readability!
<https://readability-score.com>