

Rsync Cheatsheet

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Quick reference for rsync commands and options

Rsync is a fast file sync tool for local and remote transfers. This cheatsheet covers the most common rsync commands, options, and patterns.

Install

<code>sudo apt install rsync</code>	Install on Debian/Ubuntu
<code>sudo yum install rsync</code>	Install on RHEL/CentOS
<code>sudo dnf install rsync</code>	Install on Fedora

Basic Syntax

<code>rsync [OPTION] SRC DEST</code>	Local sync
<code>rsync [OPTION] SRC USER@HOST:DEST</code>	Local → remote
<code>rsync [OPTION] USER@HOST:SRC DEST</code>	Remote → local

Local Sync Examples

<code>rsync -a src/ dest/</code>	Mirror contents
<code>rsync -a src dest/</code>	Copy dir into dest
<code>rsync -av src/ dest/</code>	Verbose sync
<code>rsync -a --delete src/ dest/</code>	Delete extra files

Remote over SSH

<code>rsync -a src/ user@host:/path/</code>	Local → remote
<code>rsync -a user@host:/path/ dest/</code>	Remote → local
<code>rsync -a -e "ssh -p 2222" src/ user@host:/path/</code>	Custom SSH port
<code>rsync -a -P src/ user@host:/path/</code>	Progress + keep partial

Common Options

-a	Archive (recursive + preserve)
-v	Verbose
-z	Compress during transfer
-P	Progress + partial files
--delete	Delete extras in dest
--dry-run	Show changes only

Excluding Files

<u>rsync -a --exclude 'node_modules' src/ dest/</u>	Exclude by name
rsync -a --exclude-from='exclude.txt' src/ dest/	Exclude from file
rsync -a --include='*.jpg' --exclude='*' src/ dest/	Include pattern

Ownership & Permissions

-p	Preserve permissions
-o	Preserve owner (root)
-g	Preserve group
--chmod=Du=rwx,Dgo=rx,Fu=rw,Fgo=r	Set permissions

Handy Patterns

rsync -a --info=progress2 src/ dest/	Overall progress
rsync -a --bwlimit=5m src/ dest/	Limit bandwidth
rsync -a --partial --append-verify src/ dest/	Resume large files
rsync -a --stats src/ dest/	Summary stats