RCLONE

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Rclone syncs your files to cloud storage

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- What can rclone do for you?
- What features does rclone have?
- What providers does rclone support?
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- Install

About rclone

Rclone is a command-line program to manage files on cloud storage. It is a feature-rich alternative to cloud vendors' web storage interfaces. Over 70 cloud storage products support rclone including S3 object stores, business & consumer file storage services, as well as standard transfer protocols.

Rclone has powerful cloud equivalents to the unix commands rsync, cp, mv, mount, ls, ncdu, tree, rm, and cat. Rclone's familiar syntax includes shell pipeline support, and `--dry-run` protection. It is used at the command line, in scripts or via its API.

Users call rclone *"The Swiss army knife of cloud storage"*, and *"Technology indistinguishable from magic"*.

Rclone really looks after your data. It preserves timestamps and verifies checksums at all times. Transfers over limited bandwidth; intermittent connections, or subject to quota can be restarted, from the last good file transferred. You can check the integrity of your files. Where possible, rclone employs server-side transfers to minimise local bandwidth use and transfers from one provider to another without using local disk.

Virtual backends wrap local and cloud file systems to apply encryption, compression, chunking, hashing and joining.

Rclone mounts any local, cloud or virtual filesystem as a disk on Windows, macOS, linux and FreeBSD, and also serves these over SFTP, HTTP, WebDAV, FTP and DLNA.

Rclone is mature, open-source software originally inspired by rsync and written in Go. The friendly support community is familiar with varied use cases. Official Ubuntu, Debian, Fedora, Brew and Chocolatey repos. include rclone. For the latest version downloading from rclone.org is recommended.

Rclone is widely used on Linux, Windows and Mac. Third-party developers create innovative backup, restore, GUI and business process solutions using the rclone command line or API.

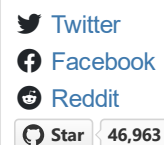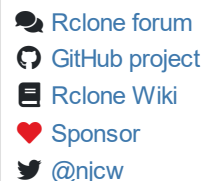Rclone does the heavy lifting of communicating with cloud storage.

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What can rclone do for you?

Rclone helps you:

- Backup (and encrypt) files to cloud storage
- Restore (and decrypt) files from cloud storage
- Mirror cloud data to other cloud services or locally
- Migrate data to the cloud, or between cloud storage vendors
- Mount multiple, encrypted, cached or diverse cloud storage as a disk
- Analyse and account for data held on cloud storage using lsf, ljson, size, ncdu
- Union file systems together to present multiple local and/or cloud file systems as one

Features

- Transfers
  - MD5, SHA1 hashes are checked at all times for file integrity
  - Timestamps are preserved on files
  - Operations can be restarted at any time
  - Can be to and from network, e.g. two different cloud providers
  - Can use multi-threaded downloads to local disk
- Copy new or changed files to cloud storage
- Sync (one way) to make a directory identical
- Bisync (two way) to keep two directories in sync bidirectionally
- Move files to cloud storage deleting the local after verification
- Check hashes and for missing/extra files
- Mount your cloud storage as a network disk
- Serve local or remote files over HTTP/WebDav/FTP/SFTP/DLNA
- Experimental Web based GUI

Supported providers

(There are many others, built on standard protocols such as WebDAV or S3, that work out of the box.)

1Fichier	🏠 Home	🗎 Config
Akamai Netstorage	🏠 Home	🗎 Config
Alibaba Cloud (Aliyun) Object Storage System (OSS)	🏠 Home	🗎 Config
Amazon S3	🏠 Home	🗎 Config
Backblaze B2	🏠 Home	🗎 Config
Box	🏠 Home	🗎 Config
Ceph	🏠 Home	🗎 Config
China Mobile Ecloud Elastic Object Storage (EOS)	🏠 Home	🗎 Config
Arvan Cloud Object Storage (AOS)	🏠 Home	🗎 Config

Citrix ShareFile	🏠 Home	🗎 Config
Cloudflare R2	🏠 Home	🗎 Config
DigitalOcean Spaces	🏠 Home	🗎 Config
Digi Storage	🏠 Home	🗎 Config
Dreamhost	🏠 Home	🗎 Config
Dropbox	🏠 Home	🗎 Config
Enterprise File Fabric	🏠 Home	🗎 Config
Fastmail Files	🏠 Home	🗎 Config
Files.com	🏠 Home	🗎 Config
FTP	🏠 Home	🗎 Config
Gofile	🏠 Home	🗎 Config
Google Cloud Storage	🏠 Home	🗎 Config
Google Drive	🏠 Home	🗎 Config
Google Photos	🏠 Home	🗎 Config
HDFS	🏠 Home	🗎 Config
Hetzner Storage Box	🏠 Home	🗎 Config
HiDrive	🏠 Home	🗎 Config
HTTP	🏠 Home	🗎 Config
ImageKit	🏠 Home	🗎 Config
Internet Archive	🏠 Home	🗎 Config
Jottacloud	🏠 Home	🗎 Config
IBM COS S3	🏠 Home	🗎 Config
IDrive e2	🏠 Home	🗎 Config
IONOS Cloud	🏠 Home	🗎 Config
Koofr	🏠 Home	🗎 Config
Leviia Object Storage	🏠 Home	🗎 Config
Liara Object Storage	🏠 Home	🗎 Config
Linkbox	🏠 Home	🗎 Config
Linode Object Storage	🏠 Home	🗎 Config
Magalu	🏠 Home	🗎 Config
Mail.ru Cloud	🏠 Home	🗎 Config
Memset Memstore	🏠 Home	🗎 Config
Mega	🏠 Home	🗎 Config
Memory	🏠 Home	🗎 Config

Microsoft Azure Blob Storage	🏠 Home	🗎 Config
Microsoft Azure Files Storage	🏠 Home	🗎 Config
Microsoft OneDrive	🏠 Home	🗎 Config
Minio	🏠 Home	🗎 Config
Nextcloud	🏠 Home	🗎 Config
OVH	🏠 Home	🗎 Config
Blomp Cloud Storage	🏠 Home	🗎 Config
OpenDrive	🏠 Home	🗎 Config
OpenStack Swift	🏠 Home	🗎 Config
Oracle Cloud Storage Swift	🏠 Home	🗎 Config
Oracle Object Storage	🏠 Home	🗎 Config
ownCloud	🏠 Home	🗎 Config
pCloud	🏠 Home	🗎 Config
Petabox	🏠 Home	🗎 Config
PikPak	🏠 Home	🗎 Config
Pixeldrain	🏠 Home	🗎 Config
premiumize.me	🏠 Home	🗎 Config
put.io	🏠 Home	🗎 Config
Proton Drive	🏠 Home	🗎 Config
QingStor	🏠 Home	🗎 Config
Qiniu Cloud Object Storage (Kodo)	🏠 Home	🗎 Config
Quatrix by Maytech	🏠 Home	🗎 Config
Rackspace Cloud Files	🏠 Home	🗎 Config
rsync.net	🏠 Home	🗎 Config
Scaleway	🏠 Home	🗎 Config
Seafile	🏠 Home	🗎 Config
Seagate Lyve Cloud	🏠 Home	🗎 Config
SeaweedFS	🏠 Home	🗎 Config
SFTP	🏠 Home	🗎 Config
Sia	🏠 Home	🗎 Config
SMB / CIFS	🏠 Home	🗎 Config
StackPath	🏠 Home	🗎 Config
Storj	🏠 Home	🗎 Config
Synology	🏠 Home	🗎 Config

SugarSync	🏠 Home 📄 Config
Tencent Cloud Object Storage (COS)	🏠 Home 📄 Config
Uloz.to	🏠 Home 📄 Config
Uptobox	🏠 Home 📄 Config
Wasabi	🏠 Home 📄 Config
WebDAV	🏠 Home 📄 Config
Yandex Disk	🏠 Home 📄 Config
Zoho WorkDrive	🏠 Home 📄 Config
The local filesystem	🏠 Home 📄 Config

Virtual providers

These backends adapt or modify other storage providers:

Alias: Rename existing remotes	🏠 Home 📄 Config
Cache: Cache remotes (DEPRECATED)	🏠 Home 📄 Config
Chunker: Split large files	🏠 Home 📄 Config
Combine: Combine multiple remotes into a directory tree	🏠 Home 📄 Config
Compress: Compress files	🏠 Home 📄 Config
Crypt: Encrypt files	🏠 Home 📄 Config
Hasher: Hash files	🏠 Home 📄 Config
Union: Join multiple remotes to work together	🏠 Home 📄 Config

Links

- 🏠 Home page
- ⓖ GitHub project page for source and bug tracker
- 💬 Rclone Forum
- ☁ Downloads