Rclone syncs your files to cloud storage

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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.

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

Source file _index.md last updated 2024-07-23
Uploaded with rclone. Built with Hugo. Logo by @andy23. Served by Caddy. Hosted at Hetzner Cloud.