s3cmd S3 command line

CONCEPTS

s3cmd reads ~/.s3cfg. For S3-compatible stores (Ceph, MinIO, Wasabi) set host_base and host_bucket there, or pass --host and --host-bucket.

~/.s3cfg keys, endpoint
↓ loads
s3cmd command + options
↓ signs and sends
Bucket s3://bucket
↓ holds
Objects key = prefix/name

A trailing slash matters: sync <dir>/ copies the contents, sync <dir> puts the directory name into the key. Always try -n first.

SETUP

`s3cmd --configure`
Interactive setup, writes ~/.s3cfg

`-c <file>`
Use another config file

`--host=<host> --host-bucket=<tmpl>`
Point at an S3-compatible endpoint

BUCKETS

`s3cmd mb s3://<bucket>`
Make a bucket

`s3cmd mb s3://<bucket> --region=<region>`
Make a bucket in a region

`s3cmd rb s3://<bucket>`
Remove an empty bucket

`s3cmd ls`
List your buckets

`s3cmd du -H [s3://<bucket>]`
Disk usage, human readable

LIST OBJECTS

`s3cmd ls s3://<bucket>/<prefix>/`
List one prefix

`s3cmd ls -r s3://<bucket>`
List recursively

UPLOAD AND DOWNLOAD

`s3cmd put <file>... s3://<bucket>/[<prefix>]`
Upload files

`put -r <dir> s3://<bucket>/`
Upload a directory tree

`put -P <file> s3://<bucket>/`
Upload world-readable

`put --storage-class=<class>`
Choose a storage class

`put --add-header=<Name:Value>`
Set an HTTP header such as Cache-Control

`put --multipart-chunk-size-mb=<n>`
Set the multipart chunk size

`s3cmd get s3://<bucket>/<key> [<file>]`
Download an object

`get -r s3://<bucket>/<prefix>/ <dir>/`
Download a prefix

`get --continue`
Resume a partial download

`s3cmd cp s3://<b1>/<k1> s3://<b2>/<k2>`
Copy between keys or buckets

`s3cmd mv s3://<b1>/<k1> s3://<b2>/<k2>`
Move an object

SYNC

`s3cmd sync <dir>/ s3://<bucket>/<prefix>/`
Upload changed files

`s3cmd sync s3://<bucket>/<prefix>/ <dir>/`
Download changed objects

`-n`
Dry run: show what would happen

`--delete-removed`
Delete destination extras

`--max-delete=<n>`
Refuse to delete more than n

`--exclude=<glob> / --include=<glob>`
Filter by pattern

`--no-check-md5`
Compare sizes only (faster)

DELETE

`s3cmd del s3://<bucket>/<key>`
Delete an object

`s3cmd rm -r s3://<bucket>/<prefix>/`
Delete a whole prefix

`del --max-delete=<n>`
Limit how many are deleted

`s3cmd restore s3://<bucket>/<key>`
Restore from Glacier

ACCESS AND SHARING

`s3cmd setacl --acl-public s3://<bucket>/<key>`
Make an object public

`setacl --acl-private`
Restrict to the owner

`setacl -r`
Apply to every object under a prefix

`setacl --acl-grant=<perm>:<id or email>`
Grant a permission to a user

`s3cmd signurl s3://<bucket>/<key> +<seconds>`
Pre-signed URL, relative expiry

DEBUG

`-d`
Debug output with HTTP traffic

`-v`
Verbose output

RECIPES

Safe backup mirror

```
s3cmd sync -n --delete-removed --max-delete=20 ./data/ s3://backups/data/
# looks right? repeat without -n
s3cmd sync --delete-removed --max-delete=20 ./data/ s3://backups/data/
```

Publish a static site

```
s3cmd sync -P --exclude='*.tmp' ./public/ s3://my-site/
```

Share a file for an hour

```
s3cmd put report.pdf s3://files/report.pdf
s3cmd signurl s3://files/report.pdf +3600
```