s3cmd S3 command line

START HERE

s3cmd --configure
Set up keys and endpoint

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

s3cmd ls [s3://*<bucket>***]**
List buckets or objects

s3cmd put *<file>* **s3://** *<bucket>***/**
Upload a file

s3cmd get s3://*<bucket>***/** *<key>* *<file>*
Download an object

s3cmd sync *<dir>***/ s3://** *<bucket>***/***<prefix>***/**
Mirror a directory

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

s3cmd signurl s3:// *<bucket>***/***<key>* **+3600**
Temporary download link

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
Template such as %(bucket)s.host. Without virtual-host DNS, use the host name alone as the template.

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
STANDARD, STANDARD_IA, ONEZONE_IA, INTELLIGENT_TIERING, GLACIER or DEEP_ARCHIVE.

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

put --multipart-chunk-size-mb=*<n>*
Set the multipart chunk size
Default 15 MB, minimum 5 MB.

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

SYNC (cont.)

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

-n
Dry run: show what would happen
Still makes listing requests.

--delete-removed
Delete destination extras
Combine with -n first, and cap with --max-delete.

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

--exclude=*<glob>* **/ --include=***<glob>*
Filter by pattern
Includes override earlier excludes.

--no-check-md5
Compare sizes only (faster)
May miss changed files of equal size.

DELETE

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

s3cmd rm -r s3://*<bucket>***/** *<prefix>***/**
Delete a whole prefix
rm is an alias for del.

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

ACCESS AND SHARING (cont.)

setacl --acl-grant=*<perm>***:***<id or email>*
Grant a permission to a user
Perms: read, write, read_acp, write_acp, full_control, all.

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

METADATA AND LIFECYCLE

s3cmd expire s3://*<bucket>* **--expiry-days=***<n>*
Auto-expire objects
Add --expiry-prefix=<p> to limit it.

s3cmd multipart s3:// *<bucket>*
List unfinished multipart uploads

s3cmd abortmp s3:// *<bucket>***/***<key>* *<id>*
Abort a multipart upload

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
```

Use an S3-compatible server

```
s3cmd --
host=minio.example.com:9000 --
host-
bucket=minio.example.com:9000 ls
```