

# AWS S3 CLI Cheat Sheet

## cp - Copy local file or S3 object to another S3 bucket or locally

**Copying a local file to S3**

```
aws s3 cp test.txt s3://mybucket/test2.txt
```

**Copying a local file to S3 with an expiration date**

```
aws s3 cp test.txt s3://mybucket/test2.txt --expires 2014-10-01T20:30:00Z
```

**Copying a file from S3 to S3**

```
aws s3 cp s3://mybucket/test.txt s3://mybucket/test2.txt
```

**Copying an S3 object to a local file**

```
aws s3 cp s3://mybucket/test.txt test2.txt
```

**Copying an S3 object from one bucket to another**

```
aws s3 cp s3://mybucket/test.txt s3://mybucket2/
```

**Recursively copying S3 objects to a local directory**

```
aws s3 cp s3://mybucket . --recursive
```

**Recursively copying local files to S3**

```
aws s3 cp myDir s3://mybucket/ --recursive --exclude "*.jpg"
```

**Recursively copying S3 objects to another bucket**

```
aws s3 cp s3://mybucket/ s3://mybucket2/ --recursive --exclude "another/*"
```

**Setting the Access Control List (ACL) while copying an S3 object**

```
aws s3 cp s3://mybucket/test.txt s3://mybucket/test2.txt --acl public-read-write
```

**Granting permissions for an S3 object**

```
aws s3 cp file.txt s3://mybucket/ --grants read=uri=http://acs.amazonaws.com/groups/global/AllUsers full=emailaddress=user@example.com
```

**Uploading a local file stream to S3**

```
aws s3 cp - s3://mybucket/stream.txt
```

**Downloading an S3 object as a local file stream**

```
aws s3 cp s3://mybucket/stream.txt -
```

## ls - List S3 objects and common prefixes under a prefix or all S3 buckets

**Lists all of the bucket owned by the user**

```
aws s3 ls
```

**Recursively list objects in a bucket**

```
aws s3 ls s3://mybucket --recursive
```

**Lists objects and common prefixes under a specified bucket**

```
aws s3 ls s3://mybucket
```

**Recursively list objects in a bucket with human readable and summarize option**

```
aws s3 ls s3://mybucket --recursive --human-readable --summarize
```

**Lists objects and common prefixes under a specified bucket and prefix**

```
aws s3 ls s3://mybucket/myPrefix
```

## mv - Move local file or S3 object to another S3 bucket or locally

**Moves a single file to a specified bucket and key.**

```
aws s3 mv test.txt s3://mybucket/test2.txt
```

**Moves a single s3 object to a specified bucket and key**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket/test2.txt
```

**Moves a single object to a specified file locally**

```
aws s3 mv s3://mybucket/test.txt test2.txt
```

**Moves a single object to a specified bucket while retaining its original name.**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket2/
```

**Recursively moves all objects**

```
aws s3 mv s3://mybucket . --recursive
```

**Recursively moves all files but exclude some file with specific extension**

```
aws s3 mv myDir s3://mybucket/ --recursive --exclude "*.jpg"
```

**Recursively moves all files but exclude some file with specific object**

```
aws s3 mv s3://mybucket/ s3://mybucket2/ --recursive --exclude "mybucket/another/*"
```

**Moves a single object to a specified bucket and key while setting the ACL to public-read-write**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket/test2.txt --acl public-read-write
```

**Grant read access to all users and full control to a specific user identified by their email address.**

```
aws s3 mv file.txt s3://mybucket/ --grants read=uri=http://acs.amazonaws.com/groups/global/AllUsers full=emailaddress=user@example.com
```

## mv - Move local file or S3 object to another S3 bucket or locally

**Moves a single file to a specified bucket and key.**

```
aws s3 mv test.txt s3://mybucket/test2.txt
```

**Moves a single s3 object to a specified bucket and key**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket/test2.txt
```

**Moves a single object to a specified file locally**

```
aws s3 mv s3://mybucket/test.txt test2.txt
```

**Moves a single object to a specified bucket while retaining its original name.**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket2/
```

**Recursively moves all objects**

```
aws s3 mv s3://mybucket . --recursive
```

**Recursively moves all files but exclude some file with specific extension**

```
aws s3 mv myDir s3://mybucket/ --recursive --exclude "*.jpg"
```

**Recursively moves all files but exclude some file with specific object**

```
aws s3 mv s3://mybucket/ s3://mybucket2/ --recursive --exclude "mybucket/another/*"
```

**Moves a single object to a specified bucket and key while setting the ACL to public-read-write**

```
aws s3 mv s3://mybucket/test.txt s3://mybucket/test2.txt --acl public-read-write
```

**Grant read access to all users and full control to a specific user identified by their email address.**

```
aws s3 mv file.txt s3://mybucket/ --grants read=uri=http://acs.amazonaws.com/groups/global/AllUsers full=emailaddress=user@example.com
```

## mb - Create an S3 buckets

**Creates a bucket**

```
aws s3 mb s3://mybucket
```

**Creates a bucket in a region**

```
aws s3 mb s3://mybucket --region us-west-1
```

## presign - To generate presign URL for S3 Object

**To create a pre-signed URL with the default one hour lifetime that links to an object in an S3 bucket**

```
aws s3 presign s3://awsexamplebucket/test2.txt
```

**To create a pre-signed URL with a custom lifetime that links to an object in an S3 bucket**

```
aws s3 presign s3://awsexamplebucket/test2.txt --expires-in 604800
```

## rb - To delete an empty S3 bucket

**Remove a bucket**

```
aws s3 rb s3://mybucket
```

**Remove all of the objects in the bucket and then remove the bucket itself.**

```
aws s3 rb s3://mybucket --force
```

## rm - To delete S3 object

**Delete an object**

```
aws s3 rm s3://mybucket/test2.txt
```

**Deletes all objects but excluding some objects with prefix**

```
aws s3 rm s3://mybucket/ --recursive --exclude "another/*"
```

**Recursively deletes all objects under a specified bucket**

```
aws s3 rm s3://mybucket --recursive
```

**Deletes all objects but excluding some objects**

```
aws s3 rm s3://mybucket/ --recursive --exclude "*.jpg"
```

## sync - To Sync directories and S3 prefixes

**Syncs objects under a specified prefix and bucket to files in a local directory**

```
aws s3 sync . s3://mybucket
```

**Syncs objects under a specified prefix and bucket to files in a local directory by uploading the local files to s3**

```
aws s3 sync . s3://mybucket --delete
```

**Syncs files between two buckets in different regions**

```
aws s3 sync s3://my-us-west-2-bucket s3://my-us-east-1-bucket --source-region us-west-2 --region us-east-1
```

**Syncs objects under a two different buckets**

```
aws s3 sync s3://mybucket s3://mybucket2
```

**Syncs objects from S3 bucket to local directory but exclude objects with specific extension**

```
aws s3 sync . s3://mybucket --exclude "*.jpg"
```

**Syncs files in a local directory to S3 bucket**

```
aws s3 sync s3://mybucket .
```

**Syncs objects from S3 bucket to local directory but exclude specific directory for sync**

```
aws s3 sync s3://mybucket/ . --exclude "another/*"
```