AWS S3 CLI Cheat Sheet

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

Copying a local file to S3	**Copying an S3 object from one bucket to another**	**Setting the Access Control List (ACL) while copying an S3 object**
`aws s3 cp test.txt s3://mybucket/test2.txt`	`aws s3 cp s3://mybucket/test.txt s3://mybucket2/`	`aws s3 cp s3://mybucket/test.txt s3://mybucket/test2.txt --acl public-read-write`
Copying a local file to S3 with an expiration date	**Recursively copying S3 objects to a local directory**	**Granting permissions for an S3 object**
`aws s3 cp test.txt s3://mybucket/test2.txt --expires 2014-10-01T20:30:00Z`	`aws s3 cp s3://mybucket . --recursive`	`aws s3 cp file.txt s3://mybucket/ --grants read=uri=http://acs.amazonaws.com/groups/global/AllUsers full=emailaddress=user@example.com`
Copying a file from S3 to S3	**Recursively copying local files to S3**	**Uploading a local file stream to S3**
`aws s3 cp s3://mybucket/test.txt s3://mybucket/test2.txt`	`aws s3 cp myDir s3://mybucket/ --recursive --exclude "*.jpg"`	`aws s3 cp - s3://mybucket/stream.txt`
Copying an S3 object to a local file	**Recursively copying S3 objects to another bucket**	**Downloading an S3 object as a local file stream**
`aws s3 cp s3://mybucket/test.txt test2.txt`	`aws s3 cp s3://mybucket/ s3://mybucket2/ --recursive --exclude "another/*"`	`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	**Lists objects and common prefixes under a specified bucket**	**Lists objects and common prefixes under a specified bucket and prefix**
`aws s3 ls`	`aws s3 ls s3://mybucket`	`aws s3 ls s3://mybucket/myPrefix`
Recursively list objects in a bucket	**Recursively list objects in a bucket with human readable and summarize option**	
`aws s3 ls s3://mybucket --recursive`	`aws s3 ls s3://mybucket --recursive --human-readable --summarize`	

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

Moves a single file to a specified bucket and key.	**Moves a single object to a specified bucket while retaining its original name.**	**Recursively moves all files but exclude some file with specific object**
`aws s3 mv test.txt s3://mybucket/test2.txt`	`aws s3 mv s3://mybucket/test.txt s3://mybucket2/`	`aws s3 mv s3://mybucket/ s3://mybucket2/ --recursive --exclude "mybucket/another/*"`
Moves a single s3 object to a specified bucket and key	**Recursively moves all objects**	**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`	`aws s3 mv s3://mybucket . --recursive`	`aws s3 mv s3://mybucket/test.txt s3://mybucket/test2.txt --acl public-read-write`
Moves a single object to a specified file locally	**Recursively moves all files but exclude some file with specific extension**	**Grant read access to all users and full control to a specific user identified by their email address.**
`aws s3 mv s3://mybucket/test.txt test2.txt`	`aws s3 mv myDir s3://mybucket/ --recursive --exclude "*.jpg"`	`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

mb - Create an S3 buckets | presign - To generate presign URL for S3 Object | rb - To delete an empty S3 bucket

Creates a bucket	**To create a pre-signed URL with the default one hour lifetime that links to an object in an S3 bucket**	**Remove a bucket**
`aws s3 mb s3://mybucket`	`aws s3 presign s3://awsexamplebucket/test2.txt`	`aws s3 rb s3://mybucket`
Creates a bucket in a region	**To create a pre-signed URL with a custom lifetime that links to an object in an S3 bucket**	**Remove all of the objects in the bucket and then remove the bucket itself.**
`aws s3 mb s3://mybucket --region us-west-1`	`aws s3 presign s3://awsexamplebucket/test2.txt --expires-in 604800`	`aws s3 rb s3://mybucket --force`

rm - To delete S3 object | website - Website configuration for bucket

Delete an object	**Recursively deletes all objects under a specified bucket**	**Configures a bucket name as a static website**
`aws s3 rm s3://mybucket/test2.txt`	`aws s3 rm s3://mybucket --recursive`	`aws s3 website s3://my-bucket/ --index-document index.html --error-document error.html`
Deletes all objects but excluding some objects with prefix	**Deletes all objects but excluding some objects**	
`aws s3 rm s3://mybucket/ --recursive --exclude "another/*"`	`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	**Syncs objects under a two different buckets**	**Syncs files in a local directory to S3 bucket**
`aws s3 sync . s3://mybucket`	`aws s3 sync s3://mybucket s3://mybucket2`	`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	**Syncs objects from S3 bucket to local directory but exclude objects with specific extension**	**Syncs objects from S3 bucket to local directory but exclude specific directory for sync**
`aws s3 sync . s3://mybucket --delete`	`aws s3 sync . s3://mybucket --exclude "*.jpg"`	`aws s3 sync s3://mybucket/ . --exclude "*another/*"`
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`		

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