



Amazon Simple Storage Service (Version 2006-03-01)

Quick Reference Card

Revised: 12/3/2009

Service Operations

GET service

Returns a list of all buckets owned by the authenticated request sender.

GET / HTTP/1.1

Host: *s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

Bucket Operations

PUT bucket

Creates a new bucket belonging to the account of the authenticated request sender. Optionally, you can specify a EU (Ireland) or US-West (N. California) location constraint.

PUT / HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

Content-Length: {0 | *length*}

[<*CreateBucketConfiguration*>

<*LocationConstraint*>*EU*</*LocationConstraint*>

</*CreateBucketConfiguration*>]

GET bucket

Lists information about the objects in a bucket for a user that has read access to the bucket.

GET ?*prefix=prefix&marker=marker&max-keys=max-keys&delimiter=delimiter* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

GET bucket location

Lists the location constraint of the bucket for the bucket owner.

GET /?*location* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

DELETE bucket

Deletes the specified bucket. All objects in the bucket must be deleted before the bucket itself can be deleted.

DELETE / HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

POST object

For more information about POST, refer to the *Amazon Simple Storage Service Developer Guide*.

Object Operations

GET object

Gets an object for a user that has read access to the object.

GET /*destinationObject* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

[Range:bytes=*byte_range*]

[x-amz-metadata-directive: *metadata_directive*]

[x-amz-if-match: *etag*]

[x-amz-if-none-match: *etag*]

[x-amz-if-unmodified-since: *time_stamp*]

[x-amz-if-modified-since: *time_stamp*]

PUT object

Adds an object to a bucket for a user that has write access to the bucket. A success response indicates the object was successfully stored; if the object already exists, it will be overwritten.

PUT /*destinationObject* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

Content-Length: *length*

Content-MD5: *md5_digest*

Content-Type: *type*

Content-Disposition: *object_information*

Content-Encoding: *encoding*

Cache-Control: *caching*

Expires: *expiration*

<*request metadata*>

COPY object

Copies an object for a user that has write access to the bucket and read access to the object. All headers prefixed with x-amz- must be signed, including x-amz-copy-source.

PUT /*destinationObject* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

x-amz-copy-source: /*source_bucket/sourceObject*

[x-amz-metadata-directive: *metadata_directive*]

[x-amz-copy-source-if-match: *etag*]

[x-amz-copy-source-if-none-match: *etag*]

[x-amz-copy-source-if-unmodified-since:

time_stamp]

[x-amz-copy-source-if-modified-since: *time_stamp*]

<*request metadata*>

HEAD object

Retrieves information about an object for a user with read access without fetching the object.

HEAD /*destinationObject* HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

DELETE object

Deletes the specified object. Once deleted, there is no method to restore or undelete an object.

DELETE / HTTP/1.1

Host: *destinationBucket.s3.amazonaws.com*

Date: *date*

Authorization: *AWS AWSAccessKeyId:signature*

Miscellaneous

Bucket Name Restrictions

Amazon S3 bucket names must:

- Only contain lowercase letters, numbers, periods (.), and dashes (-)
- Start with a number or letter
- Be between 3 and 63 characters long
- Not be in an IP address style (e.g., "192.168.5.4")
- Not end with a dash
- Not contain dashes next to periods (e.g., "my-.bucket.com" and "my.-bucket" are invalid)

Note: Although legacy bucket names can be up to 255 characters, include underscores, and end with a dash, they are not recommended.

REST Request Signature

Construct a signature by making an RFC2104 HMAC-SHA1 of the following and converting it to Base64.

Item	Example
HTTP-Verb + "\n" +	GET\n
[Content-MD5] + "\n" +	4gJE4saaMU4BqNR0kLY+lw==\n or \n
[Content-Type] + "\n" +	image/jpeg\n or \n
Date + "\n" +	Tue, 6 Mar 2007 19:42:41 +0000\n
[CanonicalizedAmzHeaders +/\n]	x-amz-acl:public-read\n
	x-amz-meta-checksum:crc32\n
[CanonicalizedResource]	/mybucket/photos/loocat.z.jpg

The content cannot contain whitespaces and \n represents Unicode code point U+000A.