

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

Quick Reference Card

Revised: 04/1/2010

Service Operations	Object Operations	HEAD Object
GET Service Returns a list of all buckets owned by the authenticated request sender. GET / HTTP/1.1 Host: s3.amazonaws.com Date: date	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	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
Authorization: AWS AWSAccessKeyId:signature Bucket Operations	Authorization: AWS AWSAccessKeyId:signature [Range:bytes=byte_range] [x-amz-metadata-directive: metadata_directive] [x-amz-if-match: etag]	<b>DELETE Object</b> Deletes the specified object. Once deleted, there is no method to restore or undelete an object.
<b>PUT Bucket</b> Creates a new bucket belonging to the account of the authenticated request sender. Optionally, you can specify a	[x-amz-if-none-match: etag] [x-amz-if-unmodified-since: time_stamp] [x-amz-if-modified-since: time_stamp]	DELETE / HTTP/1.1 Host: destinationBucket.s3.amazonaws.com Date: date Authorization: AWS AWSAccessKeyId:signature
<pre>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>]</pre>	<pre>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</pre>	POST Object Adds an object to a bucket using forms. POST / HTTP/1.1 Host: destinationBucket.s3.amazonaws.com User-Agent: browser_data Accept: file_types Accept-Language: locales Accept-Encoding: encoding
GET Bucket Lists information about the objects in a bucket for a user that has read access to the bucket. GET ?prefix=prefix▮=marker&max-keys=max- keys&delimiter=delimiter HTTP/1.1 Host: destinationBucket.s3.amazonaws.com Date: date Authorization: AWS AWSAccessKeyId:signature	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	Accept-Charset: character_set Keep-Alive: 300 Connection: keep-alive Content-Type: multipart/form-data; boundary=ID Content-Length: length <multiform_data> Note: For more information about the multiform data, refer to the Amazon Simple Storage Service Developer Guide.</multiform_data>
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	<pre><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</request></pre>	
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	<pre>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:</pre>	
POST Object	time_stamp]	

## **POST Object**

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

## [x-amz-copy-source-if-modified-since: time\_stamp] <request metadata>

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amazon

web services\*\*

Miscellaneous	Versioning	
<ul> <li>Bucket Name Restrictions</li> <li>Amazon S3 bucket names must: <ul> <li>Only contain lowercase letters, numbers, periods (.), and dashes (-)</li> <li>Start with a number or letter</li> <li>Be between 3 and 63 characters long</li> <li>Not be in an IP address style (e.g., "192.168.5.4")</li> <li>Not end with a dash</li> <li>Not contain dashes next to periods (e.g., "mybucket.com" and "mybucket" are invalid)</li> </ul> </li> <li>Note: Although legacy bucket names can be up to 255 characters, include underscores, and end with a dash, they are not recommended.</li> </ul>	GET Bucket Object versions Lists metadata about all of the versions of objects in a bucket. GET /?versions HTTP/1.1 Host: BucketName.s3.amazonaws.com GET Bucket versioning Returns the versioning state of a bucket. GET /?versioning HTTP/1.1 Host: myBucket.s3.amazonaws.com PUT Bucket versioning Sets the versioning state of an existing bucket.	
<b>REST Request Signature</b> Construct a signature by making an RFC2104 HMAC-SHA1 of the following and converting it to Base64. <b>Item</b> MTTP-Verb + "\n" +       GET\n         [Content-MD5] + "\n" +       GET\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/lolcatz.jpg         The content cannot contain whitespaces and \n represents         Unicode code point U+000A.	PUT /?versioning HTTP/1.1 Host: bucket.s3.amazonaws.com <versioningconfiguration xmlns="http://s3.amazonaws.com/&lt;br&gt;doc/2006-03-01/"> <status>Enabled</status> </versioningconfiguration> <b>DELETE Object versionId</b> Removes a specific object version. <i>DELETE /my-third-image.jpg?</i> Host: bucket.s3.amazonaws.com versionId= <versionid> <b>GET Object versionId</b> Returns a specific object version. <i>GET /myObject?versionId=</i><versionid> Host: bucket.s3.amazonaws.com</versionid></versionid>	
	HEAD Object versionId Returns metadata of a specific object version. HEAD /myObject?versionId= <versionid> Host: bucket.s3.amazonaws.com PUT Object copy versionId Copies a specific object version. PUT /my-second-image.jpg HTTP/1.1 Host: bucket.s3.amazonaws.com Date: Wed, 28 Oct 2009 22:32:00 GMT x-amz-copy-source: /bucket/my- image.jpg?versionId=<versionid></versionid></versionid>	

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