



# Object versioning

Object versioning requires that you configure your environment with **working S3-compatible credentials**.

## Enabling bucket versioning

To enable versioning in a bucket, use one of the following commands:

**aws**      **mc**      **s3cmd**

```
aws --profile <region> \
  --endpoint-url=https://s3-
  <region>.citycloud.com:8080 \
  s3api put-bucket-versioning \
  --versioning-configuration
  Status=Enabled \
  --bucket <bucket-name>

mc version enable <region>/
  <bucket-name>
```

This functionality is not available with the `s3cmd` command.

## Checking bucket versioning status

To check whether object versioning is enabled on a bucket, use one of the following commands:

**aws**      **mc**      **s3cmd**

```
aws --profile <region> \
  --endpoint-url=https://
  s3-
  <region>.citycloud.com:
  8080 \
  s3api get-bucket-
  versioning \
  --bucket <bucket-
  name>

mc version info
  <region>/<bucket-
  name>
```

Once object versioning is enabled on a bucket, the normal object creation and replacement commands behave in a manner different from that in unversioned buckets:

- If the object does not already exist, it is created (as in an unversioned bucket).

- If the object does already exist, it is not replaced. Instead, a new version appears in addition to the old one.

**aws      mc      s3cmd**

```
aws --profile <region> \
  --endpoint-url=https://
s3-
<region>.citycloud.com:
8080 \
  s3api put-object \
  --bucket <bucket-
name> \
  --key <object-name> \
  --body <local-
filename>
```

```
mc cp \
  <local-filename> \
  <region>/<bucket-
name>/<object-name>
```

```
s3cmd put <local-
filename> s3://
<bucket>
```

## versions

When versioning is enabled, you may list the versions available for an

**aws      mc      s3cmd**

```
aws --profile <region> \
  --endpoint-url=https://
s3-
<region>.citycloud.com:
8080 \
  s3api list-object-
versions \
  --bucket <bucket-
name> \
  --key <object-name>
```

```
mc stat --versions
<region>/<bucket-
name>
```

## Retrieving a versioned object

This functionality may

**To download a specific version of an object in a bucket, use one of the following commands:**

**mc** client.

This functionality is not available with the **s3cmd** command.

**aws      mc      s3cmd**

```
aws --profile <region> \  
  --endpoint-url=https://  
s3-  
<region>.citycloud.com:  
8080 \  
  s3api get-object \  
  --bucket <bucket-  
name> \  
  --key <object-name> \  
  --version-id  
<versionid> \  
  <local-filename>
```

```
mc cp \  
  --version-id  
<versionid> \  
  <region>/<bucket-  
name>/<object-name> \  
  <local-filename>
```

object from a versioned bucket *without* specifying a version-id. The s3 client will download the latest version of that object.

## Deleting a versioned object

This functionality is not available with the `s3cmd`

commands. Like the `aws` commands to *create* objects, the commands to *delete* them behave differently once object versioning is enabled on a bucket.

The command to delete an object will normally not delete it, but revert it to the prior version. The exception to this rule is when there is only a single version of the object left in the bucket, in which case object removal does occur.

**aws      mc      s3cmd**

```
aws --profile <region> \  
  --endpoint-url=https://  
s3-  
<region>.citycloud.com:  
8080 \  
  s3api delete-object \  
  --bucket <bucket-  
name> \  
  --key <object-name>
```

```
mc rm \  
  <region>/<bucket-  
name>/<object-name>
```

```
s3cmd del s3://<bucket-  
name>/<object-name>
```

of deleting not the latest version, but a specific object

**aws      mc      s3cmd**

```
aws --profile <region> \  
  --endpoint-url=https://  
s3-  
<region>.citycloud.com:  
8080 \  
  s3api delete-object \  
  --version-id  
<versionid> \  
  --bucket <bucket-  
name> \  
  --key <object-name>  
  
mc rm \  
  --version-id  
<versionid> \  
  <region>/<bucket-  
name>/<object-name>  
Last update: 2022-11-07  
Created: 2022-05-11
```

Authors: Florian Haas, Foad Lind

This functionality is not  
available with the s3cmd  
command.