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.

Getting the current versioning status

To confirm that 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>
```

This functionality is not available with the s3cmd command.

Creating a versioned object

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>
```

...rsions

...ioning 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
be impacted by specific
To download a specific version of an object in a bucket, use one of the following
commands.
several versions of the
`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>
```

bject from a versioned bucket *without* specifying a
3 client will download the latest version of that object.

Deleting a versioned object

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

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