

Working with S3-compatible credentials

When you want to interact with object storage in Cleura Cloud using tools that support an Amazon S3 compatible API (such as `s3cmd`, `rclone`, the `aws` CLI, or the Python `boto3` library), you need an S3-compatible access key ID and secret key.

Creating credentials

You can create a set of S3-compatible credentials with the following command:

```
openstack ec2 credentials create
```

This will return an `Access` and `Secret` key that you can use to populate the `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY` environment variables (or whichever configuration options your application requires).

Your S3-compatible credentials are always scoped to your Cleura Cloud *region* and *project*. You cannot reuse an access and secret key across multiple regions or projects.

Also, your credentials are only “S3-compatible” in the sense that they use the same *format* as AWS S3 does. They are never valid against AWS S3 itself.

Listing credentials

You can list any previously-created credentials with:

```
openstack ec2 credentials list
```

Configuring your S3 API client

Once you have obtained your S3-compatible access and secret key, you need to configure your S3 client with it.

How exactly you do that depends on your preferred client:

aws mc s3cmd

Create a new profile,
named after your Cleura
Cloud region:

```
aws configure set \
  --profile <region> \
  aws_access_key_id
<access-key>
aws configure set \
  --profile <region> \

aws_secret_access_key
<secret-key>
```

For the **aws** CLI, you
cannot define a region's
endpoint in the profile.
As such, you must add
the **--endpoint-url=https://**
s3-<region>.citycloud.com:
8080 option to each
aws s3api call.

Create a new alias,
named after your Cleura
Cloud region:

```
mc alias set <region> \
  https://s3-
  <region>.citycloud.com:
  8080 \
  <access-key> <secret-
  key>
```

Once you have
configured an alias like
this, you are able to run
bucket operations with
mc using the
alias/bucket syntax.

s3cmd does not support
configuration profiles, so
you need to use a
separate configuration
file for each Cleura

Cloud region you want
to use:

```
s3cmd -c ~/.s3cfg-  
<region> --configure
```

- Set your Access Key
and Secret Key when
prompted.
- Leave Default Region
unchanged.
- Set S3 Endpoint to
s3-
<region>.citycloud.com:
8080 .
- Set DNS-style
bucket+hostname:port
template for accessing a
bucket to s3-
<region>.citycloud.com:
8080 as well.

Deleting credentials

If at any time you need to delete a set of AWS-compatible credentials, you can do
so with the following command:

- Set Use HTTPS
openstack ec2 credentials delete <access-key-id>
default).

Deleting a set of S3-compatible credentials will *immediately* revoke access for
any applications that were using it.

- Configure GnuPG
encryption and your
HTTP proxy server, if
needed.

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- Test access with
your supplied
credentials.

On subsequent
invocations of the s3cmd
CLI, always add the -c
~/.s3cfg-<region> option.