Working with a public Swift container

Prerequisites

In order to create a Swift container, be sure that you have installed and configured the required command-line interface (CLI) tools.

Creating the container

To create a public container (that is, one whose contents can be accessed without credentials), use the following command:

OpenStack CLI Swift CLI

```
$ swift post --read-acl ".r:*,.rlistings" public-
container h your current set of credentials,
```

use this command: This command produces no output.

OpenStack CLI Swift CLI

\$ swift list privatecontainer public-

detailed information about an individual container, you can also container and the Read access control list (ACL) contains the entry .r:*,.rlistings, which enables read access to all objects in a container, and to a list of objects included in the container.

OpenStack CLI **Swift CLI**

```
openstack container show public-container
+----+
| Field | Value
+-----+
account
AUTH 30a7768a0ffc40359d6110f21a6e7d88 |
| bytes_used | 0
| container | public-container
object count | 0
read_acl | .r:*,.rlistings |
| storage_policy | default-placement
$ swift stat public-container
          Account:
AUTH 30a7768a0ffc40359d6110f21a6e7d88
        Container: public-container
          Objects: 0
           Bytes: 0
          Read ACL: .r:*,.rlistings
          Write ACL:
           Sync To:
          Sync Key:
         X-Timestamp: 1670235997.87682
X-Container-Bytes-Used-Actual: 0
      X-Storage-Policy: default-placement
       X-Storage-Class: STANDARD
        Last-Modified: Mon, 05 Dec 2022
10:26:37 GMT
         X-Trans-Id:
tx00000cd9e7c26095ab862-00638dc78a-301ddeb-
   X-Openstack-Request-Id:
tx00000cd9e7c26095ab862-00638dc78a-301ddeb-
default
        Accept-Ranges: bytes
                                            local test file:
        Content-Type: text/plain; charset=utf-8
$ echo "hello world" > testobj.txt
```

Then, upload the file (as a Swift object) into your container, and read back its metadata:



\$ openstack object save --file - privatecontainer testobj.txt hello world

The --file - option prints the file contents to stdout. If instead you want to save the object's content to a local file, use --file <filename> .

If you omit the --file argument altogether, openstack object save will create a local file named like the object you are downloading (in this case, testobj.txt).

\$ swift download o - privatecontainer
testobj.txt
hello world

The -o - option prints the file contents to stdout. If instead you want to save the object's content to a local file, use -o <filename>.

If you omit the -o argument altogether, swift download will create

a local file named

like the object you

However, this being a public container, you can also retrieve your object using any are downloading (in regular HTTP/HTTPS client, using a public URL. This URL is composed as follows: this case.

testobj.txt wift API's base URL, which differs by Cleura Cloud region (https:// swift-<region>.citycloud.com:<port>/swift/v1/),

- 2. the container's account string, starting with AUTH,
- 3. the container name (in our example, public-container),
- 4. the object name (in our example, testobj.txt).

Rather than composing the public URL manually, you can also retrieve it by parsing the CLI's debug output:

OpenStack CLI Swift CLI

```
$ openstack object show --debug public-
container testobj.txt 2>&1 \
grep -o "https://.*testobj.txt"
https://swift-fra1.citycloud.com:8080/swift/
AUTH 30a7768a0ffc40359d6110f21a6e7d88/
public-container/testobj.txt
https://swift-fra1.citycloud.com:8080
"HEAD /swift/v1/
AUTH 30a7768a0ffc40359d6110f21a6e7d88/
public-container/testobj.txt
https://swift-fra1.citycloud.com:8080/swift/
v1/
AUTH 30a7768a0ffc40359d6110f21a6e7d88/
public-container/testobj.txt
$ swift stat --debug public-container
testobj.txt 2>&1 \
```

you can fetch the object's contents le uses curl:

\$ curl https://swift-fra1.citycloud.com:8080/swift/v1/ AUTH 30a7768a0ffc40359d6110f21a6e7d88/public-container/testobj.txt hello world

public-container/testobj.txt

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