Working with a private 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 a private container

To create a private container (that is, one that can only be accessed with proper Swift API credentials), use the following command:

OpenStack CLI   **Swift CLI**

```
$ openstack container create private-container
+-----------------------------------+------------------
+----------------------------------------------------+
| account                           | container       | x-
trans-id                             |
+-----------------------------------+------------------
+----------------------------------------------------+
| AUTH_30a7768a0ffc40359d6110f21a6e7d88 |
private-container |
tx00000ddb0f9e2a50ad881-00638dbf9c-300de11-
default |
+-----------------------------------+------------------
+----------------------------------------------------+
```

```
$ swift post private-container
```
.on

This command produces no output.

To create a list of all containers accessible with your current set of credentials, use this command:

OpenStack CLI   **Swift CLI**

```
$ openstack
container list
+------------------
+
|
Name
|
+------------------
+
| private-
container |
+------------------
+
```

```
$ swift list
private-
container
```

To retrieve more detailed information about an individual container, you can also use this command:

OpenStack CLI   **Swift CLI**

```
$ openstack container show private-container
+---------------+------------------------------------+
| Field         | Value                              |
+---------------+------------------------------------+
| account       |
AUTH_30a7768a0ffc40359d6110f21a6e7d88 |
| bytes_used    | 0                                  |
| container     | private-container                  |
| object_count  | 0                                  |
| storage_policy | default-placement                 |
+---------------+------------------------------------+

$ swift stat private-container
              Account:
AUTH_30a7768a0ffc40359d6110f21a6e7d88
            Container: private-container
              Objects: 0
                Bytes: 0
             Read ACL:
            Write ACL:
              Sync To:
             Sync Key:
          X-Timestamp: 1670234012.31534
X-Container-Bytes-Used-Actual: 0
        X-Storage-Policy: default-placement
         X-Storage-Class: STANDARD
           Last-Modified: Mon, 05 Dec 2022
09:53:32 GMT
            X-Trans-Id:
tx0000073eebb42acd6e7e1-00638dbfe8-301ddeb-
default
     X-Openstack-Request-Id:
tx0000073eebb42acd6e7e1-00638dbfe8-301ddeb-
default
         Accept-Ranges: bytes
         Content-Type: text/plain; charset=utf-8
```
a local test file:

```
$ echo "hello world" > testobj.txt
```

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

OpenStack CLI   **Swift CLI**

```
$ openstack object create private-container
testobj.txt
+-------------+------------------+-------------------------------
+
| object      | container        |
etag                        |
+-------------+------------------+-------------------------------
+
| testobj.txt | private-container |
6f5902ac237024bdd0c176cb93063dc4 |
+-------------+------------------+-------------------------------
+

$ openstack object show private-container
testobj.txt
+---------------+------------------------------------+
| Field         | Value                              |
+---------------+------------------------------------+
| account       |
AUTH_30a7768a0ffc40359d6110f21a6e7d88 |
| container     | private-container                  |
| content-length | 12                               |
| content-type   | text/plain                       |
| etag           |
6f5902ac237024bdd0c176cb93063dc4       |
| last-modified  | Mon, 05 Dec 2022 10:00:34
GMT         |
| object         | testobj.txt                      |
| properties     |
mtime='1670234292.370177'           |
+---------------+------------------------------------+

$ swift upload private-container testobj.txt
testobj.txt

$ swift stat private-container testobj.txt
          Account:
AUTH_30a7768a0ffc40359d6110f21a6e7d88
        Container: private-container
           Object: testobj.txt
     Content Type: text/plain
   Content Length: 12
    Last Modified: Mon, 05 Dec 2022 10:00:34
GMT
             ETag:
6f5902ac237024bdd0c176cb93063dc4
       Meta Mtime: 1670234292.370177
     Accept-Ranges: bytes
       X-Timestamp: 1670234434.67877
        X-Trans-Id:
tx000000f26ccf73c19f596-00638dc160-300de11-
default
X-Openstack-Request-Id:
tx000000f26ccf73c19f596-00638dc160-300de11-
default
```

ner, use the following command:

	OpenStack CLI	Swift CLI

```
$ openstack object
save --file - private-
container
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 - private-
container
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
are downloading (in
this case,
testobj.txt).