

with the `--key-type=swift` option to create a Swift authentication key associated with the subuser.

```
[ceph: root@node /]# radosgw-admin key create --subuser=username:swift \
--key-type=swift
```

When a Swift client communicates with a RADOS Gateway, then the latter acts as both the data server and the Swift authentication daemon (using the `/auth` URL path). The RADOS Gateway supports both Internal Swift (version 1.0) and OpenStack Keystone (version 2.0) authentication. The secret specified using `-K` is the secret created with the Swift key.



Note

Ensure your command-line parameters are not being overridden or influenced by any operating system environment variables. If you are using Auth version 1.0, then use the `ST_AUTH`, `ST_USER`, and `ST_KEY` environment variables. If you are using Auth version 2.0, then use the `OS_AUTH_URL`, `OS_USERNAME`, `OS_PASSWORD`, `OS_TENANT_NAME`, and `OS_TENANT_ID` environment variables.

In the Swift API, a container is a collection of objects. An object in the Swift API is a *binary large object* (blob) of data stored in Swift.

To verify RADOS Gateway accessibility using the Swift API, use the `swift post` command to create a container.

```
[root@node ~]$ swift -A http://host/auth -U username:swift -K secret \
post container-name
```

To upload a file to a container, use the `swift upload` command:

```
[root@node ~]$ swift -A http://host/auth -U username:swift -K secret \
upload container-name file-name
```

If you use the absolute path to define the file location, then the object's name contains the path to file, including the slash character `/`. For example, the following command uploads the `/etc/hosts` file to the `services` bucket.

```
[root@node ~]$ swift -A http://host/auth/ -U user:swift -K secret \
upload services /etc/hosts
```

In this example, the uploaded object name is `etc/hosts`. You can define the object name by using the `--object-name` option.

To download a file, use the `download` command.

```
[root@node ~]$ swift -A http://host/auth -U username:swift -K secret \
download container-name object-name
```