

Swift Kickstart with Rclone (demo)

This document is a recipe showing how to use a swift client called [RClone](#) for a first-time user.

Swift is in preview mode and should not be used for anything important. The current cluster will be destroyed and data may be removed without notice ¹⁾. Additionally, you will need to have a conversation with Techstaff to setup a project scope before you can follow these instructions.

All of the data fed to the cluster should be also saved elsewhere, and you are advised against relying solely on this service at this time.

Obtain Application Credentials

1 Login to Web Application

First, accept the certificate and login to [The Dashboard](#) with your CNetID and password.

important: Write CS Account in the domain field of the login page.

2 Create Application Credentials

Using the menu on the left, select "Identity → Application Credentials" to access the [Application Credentials Interface](#) interface. Click the "+ Create Application Credential" button and fill out the form.

Be sure to download the application credentials after submitting the form

Credentials Advice:

- Make the expiration date memorable such as your birthdate.
- Leave Secret blank
- Give your application admin Role (*not* unrestricted).
- Read the guide text on the form page

For example

Create Application Credential

Name *

swift-backup

Description

Backup artifacts to swift

Secret

Expiration Date

08/20/2025

Expiration Time

Roles

member

admin

reader

☐ Unrestricted (dangerous)

Description:

Create a new application credential.

The application credential will be created for the currently selected project.

You may provide your own secret, or one will be generated for you. Once your application credential is created, the secret will be revealed once. If you lose the secret, you will have to generate a new application credential.

You may give the application credential an expiration. The expiration will be in UTC. If you provide an expiration date with no expiration time, the time will be assumed to be 00:00:00. If you provide an expiration time with no expiration date, the date will be assumed to be today.

You may select one or more roles for this application credential. If you do not select any, all of the roles you have assigned on the current project will be applied to the application credential.

By default, for security reasons, application credentials are forbidden from being used for creating additional application credentials or keystone trusts. If your application credential needs to be able to perform these actions, check "unrestricted".

Cancel

Create Application Credential

3 Install and Configure rclone

[RClone](#) is a swift client used as an example in this guide. Download and install rclone using the [Install Guide](#) . For this example, rclone binary was simply untared.

Configuration of rclone should be simplified as below

```
$ cat ~/.config/rclone/rclone.conf
[techstaff]
type = swift
env_auth = true
auth_version = 3
```

Save your Application Credentials that you downloaded in the previous step, and include them in your shell's environment before running rclone. In the below example, everything that I would like to save is already in a local directory path `/home/chudler/backup_data` . The remote location was named `techstaff` in the above configuration file.

```
source ~/app-cred-swift-backup-openrc.sh
./rclone --no-check-certificate sync /home/chudler/backup_data
techstaff:backup_current --backup-dir techstaff:backup_$(date -I)
```

Troubleshooting

- Rcode returns 404 after/during authentication. Change the application environment file OS_AUTH_URL variable, as below.

```
export OS_AUTH_URL=https://overcloud.cs.uchicago.edu:13000/v3
```

1)

[status](#)

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