# Swift Kickstart with Rclone (demo)

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

## **Obtain Application Credentials**

#### 1 Login to Web Application

First, accept the certificate and login to The Dashboard with your CNetID and password. **important:** Write csldap in the domain field of the login page.

#### 2 Create Application Credentials

Using the menu on the left, select "Identity  $\rightarrow$  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 and give your application admin privileges (\*not\* unrestricted).
- Read the guide text on the form page

For example

1

lame *	
swift-backup	Description:
	Create a new application credential.
Pescription	The application credential will be created for the currently selected project
Secret	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.
Expiration Date	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
08/20/2025	expiration date, the date will be assumed to be today.
Expiration Time	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.
Roles member admin reader	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".
Unrestricted (dangerous)	

#### **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 unpacked to a unprivileged user directory on the path.

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:

```
source ~/app-cred-swift-backup-test-openrc.sh
./rclone 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

From: https://howto.cs.uchicago.edu/ - **How do I?** 

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