# Surf Research Data Connector

The Surf Research Data Connector  App is a re-implementation of the ScieboRDS app. It allows Research Drive users to connect to research data repositories to upload their data to these repositories easily.

The following repositories are supported:

- OSF
- Zenodo
- Figshare
- Dataverse
- Irods
- Sharekit

Besides uploading data to these repositories, the application also allows users to download private data from these repositories. It allows users to download open data from many different repositories supported by the Datahugger project.

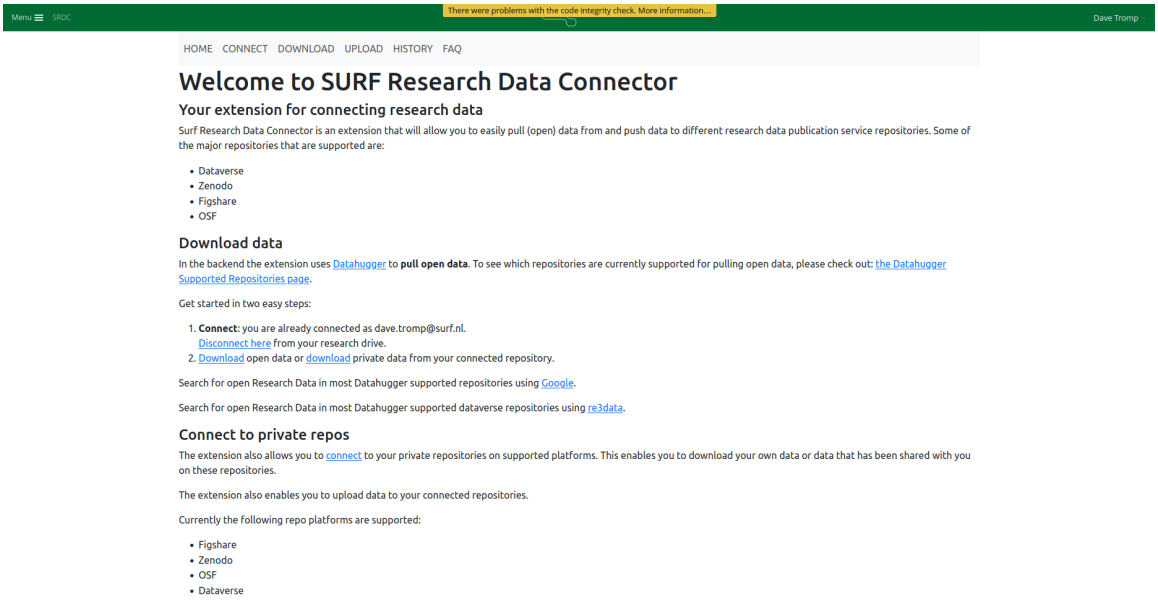



# Getting started

This tutorial will help you get started using the app.

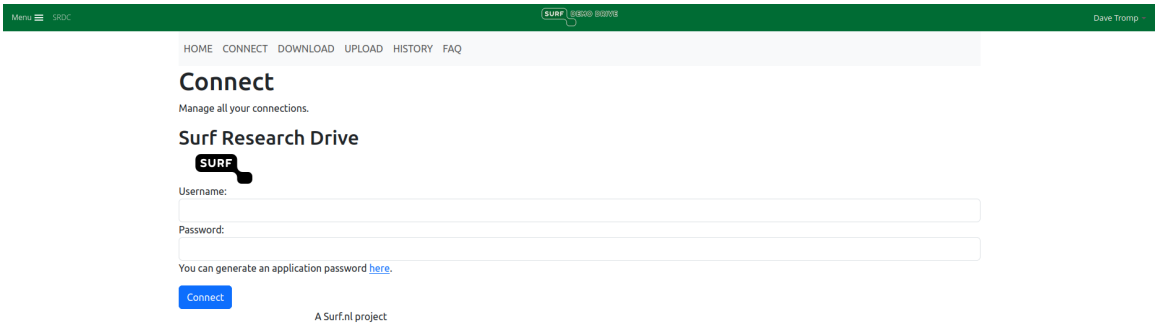
All passwords shown in this wiki have been deactivated.

The app is located here in the menu as 'SRDC'.

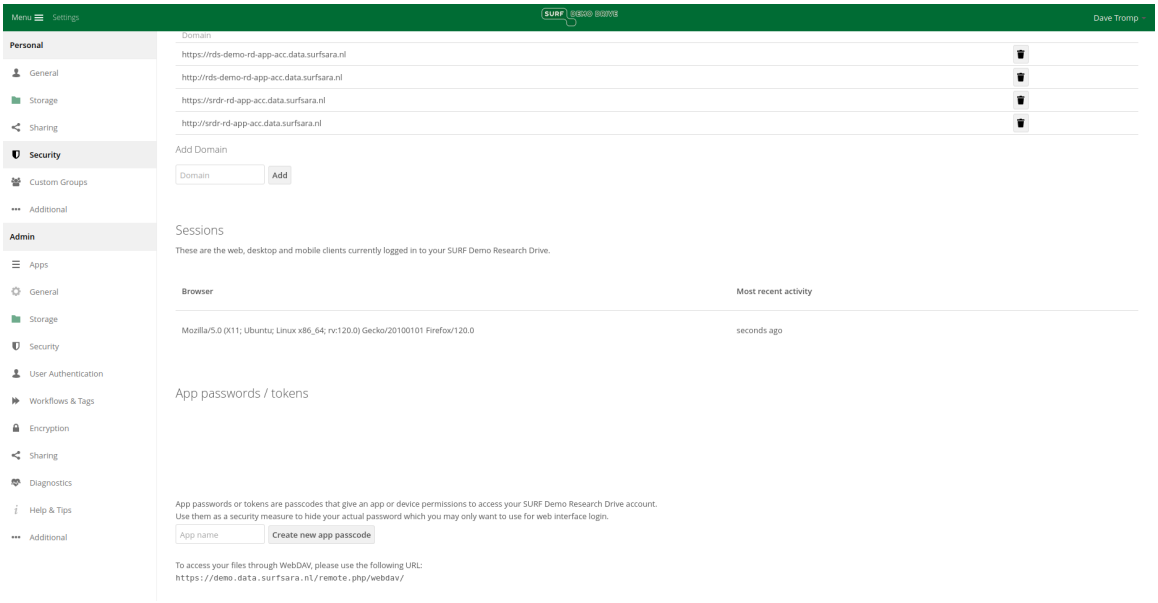



# Connecting the app to Research Drive

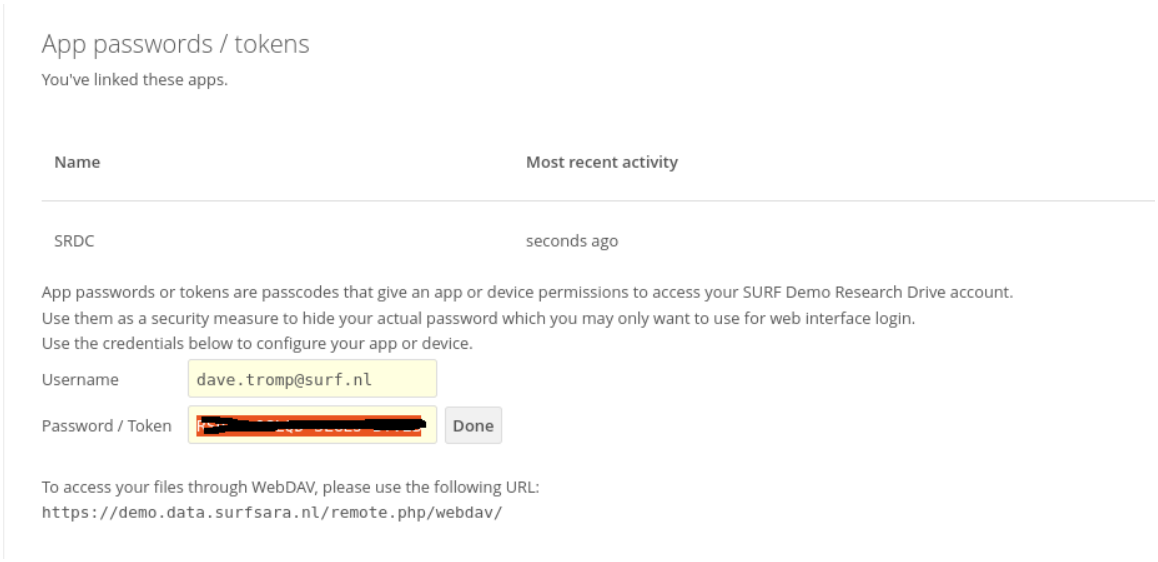
Go to the Connect page by clicking the CONNECT link in the top menu.



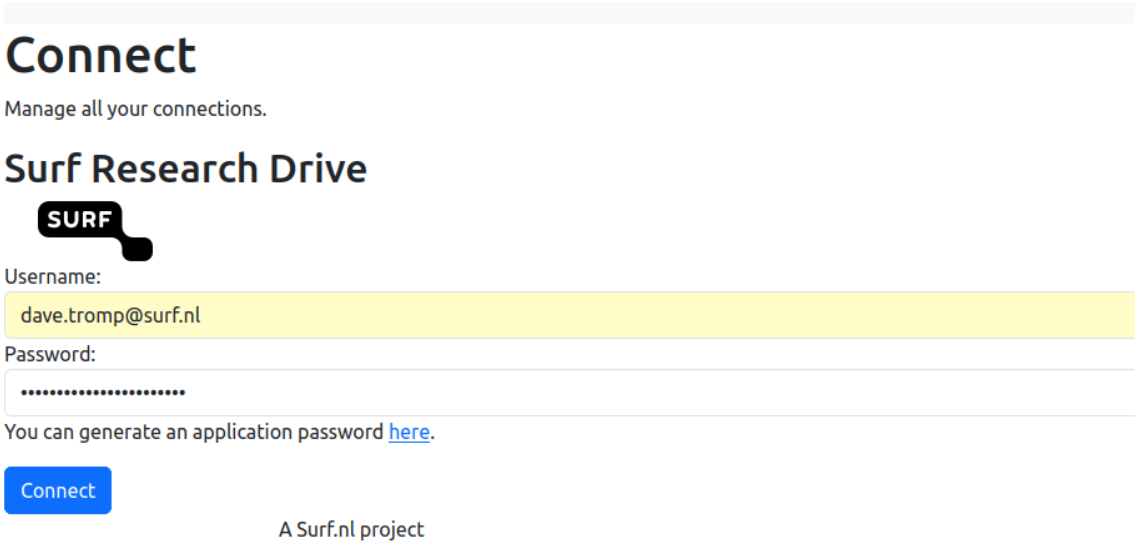

To connect the app you will need to generate an application password. Click the link below the login form.



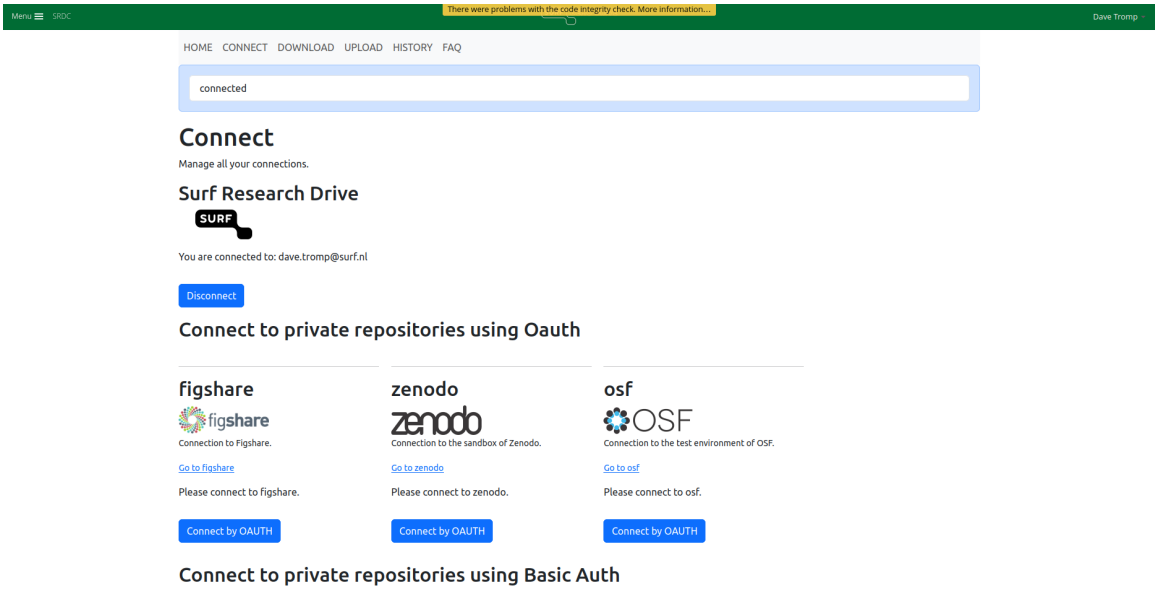

Fill out an app name and click the 'Create new app passcode' button.




Copy the username and password/token.




Fill out the login details and click Connect.




Once the app is connected you can start connecting to the different available services.

# Connecting the repositories

All services can connect using BASIC AUTH (with a username and password) and some services can also connect using OAUTH.
Connecting using OAUTH is the easiest way to connect, but not all download functionality is available when connecting this way.
If you want to download private datasets you will need to connect using BASIC AUTH.
Full upload functionality is available with both BASIC AUTH and OAUTH.
For downloading an open dataset you do not have to connect to any repository.

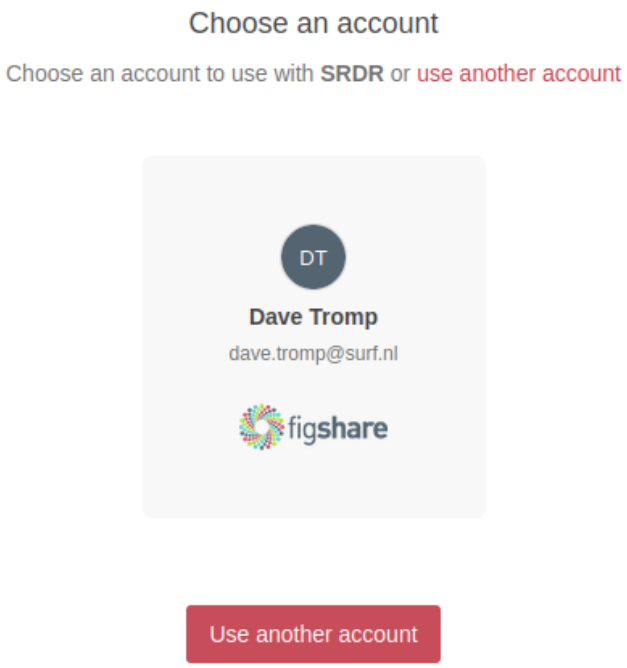
## Figshare

### Connecting using OAuth

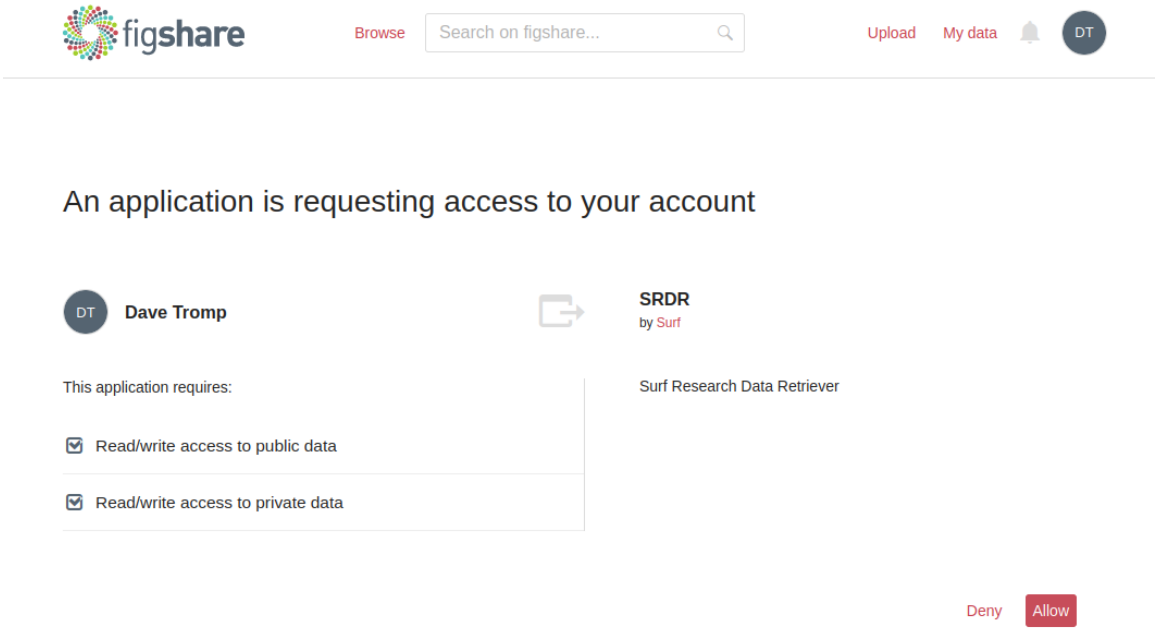
Make sure you are logged in to your Figshare account. You can easily go to the repository by clicking the link 'Go to Figshare'.

Then come back and click on the 'Connect by OAUTH' button.

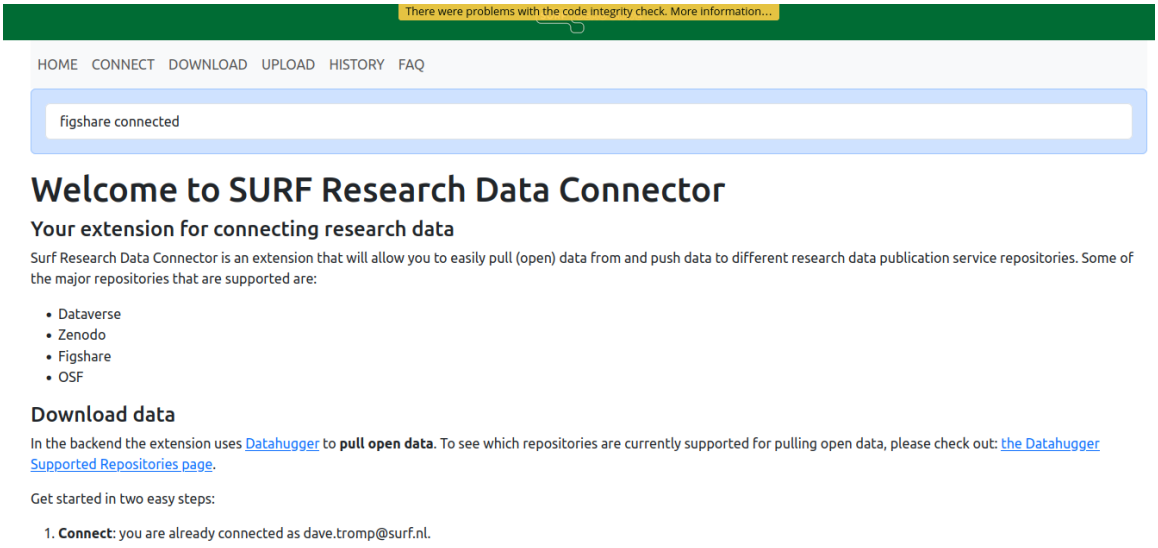

In the next screen click on the Figshare account you want to connect to.




Then click the 'Allow' button.

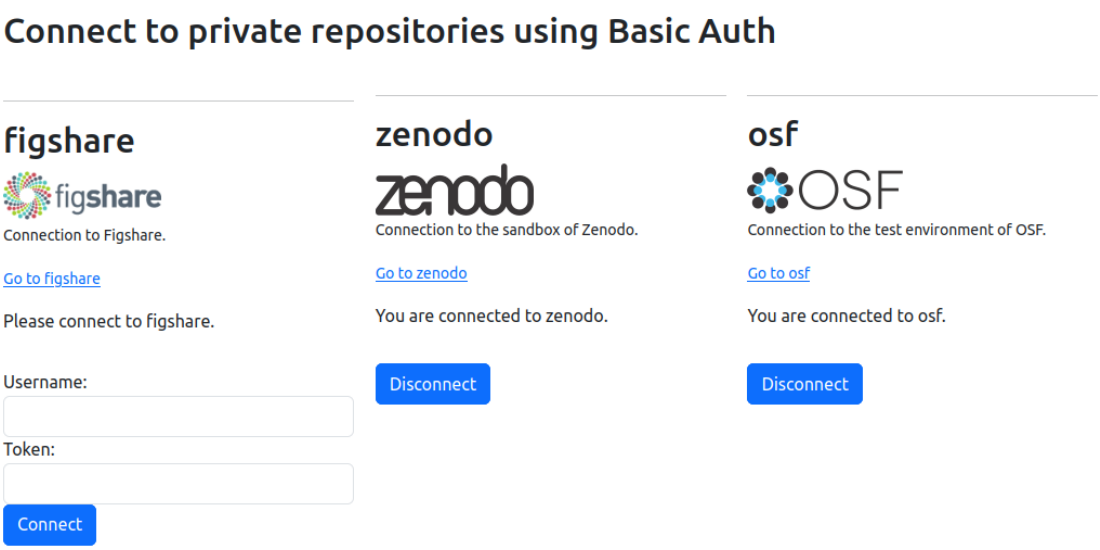



After that, you will be redirected back to the app and you should see the message: 'figshare connected'.

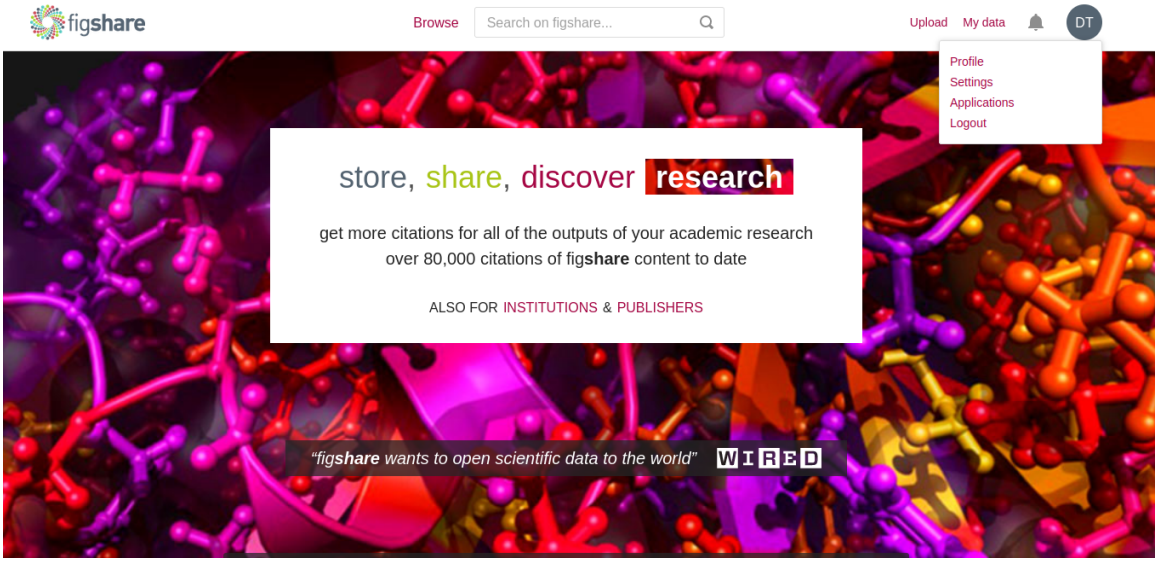



## Connecting using Basic Auth

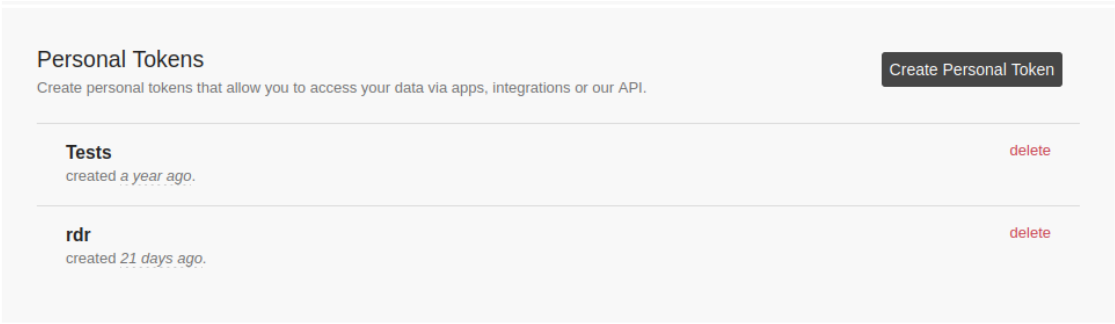
Click on 'Go to figshare'.



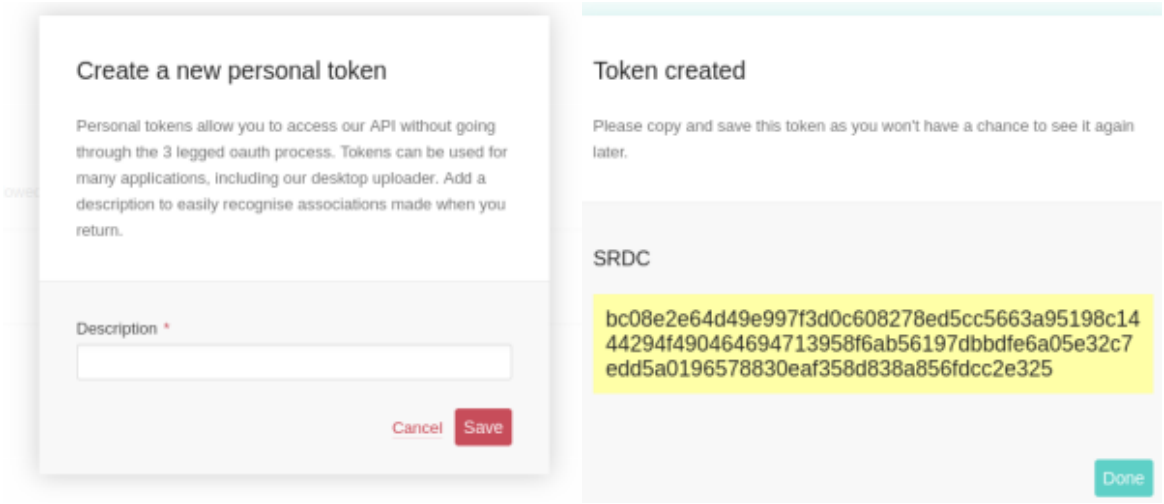

If you are logged in to Figshare, then in the right top corner click on your profile icon and then select Applications.



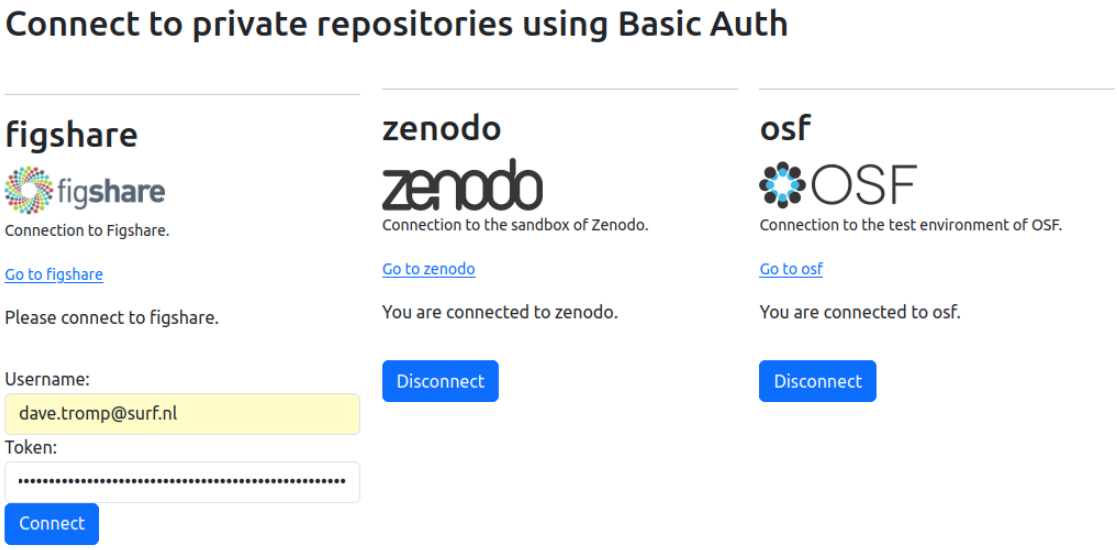

Scroll down to the 'Personal Tokens' section and click the 'Create Personal Token' button.



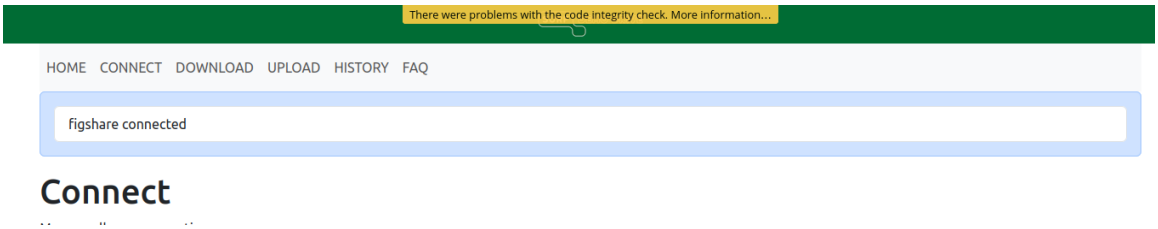

Fill out a description, click save, and copy the token.




Paste in the token and give yourself a username. Click connect.




If your connection is successful you will see: 'figshare connected'.

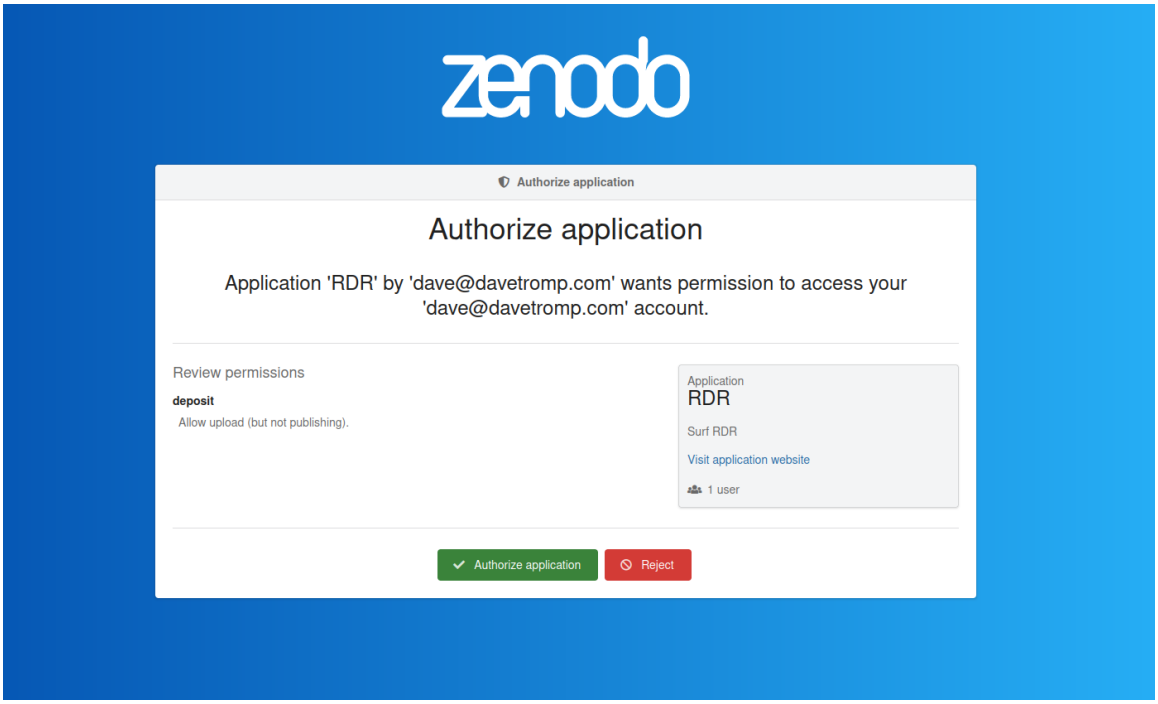



# Zenodo

## Connecting using OAuth

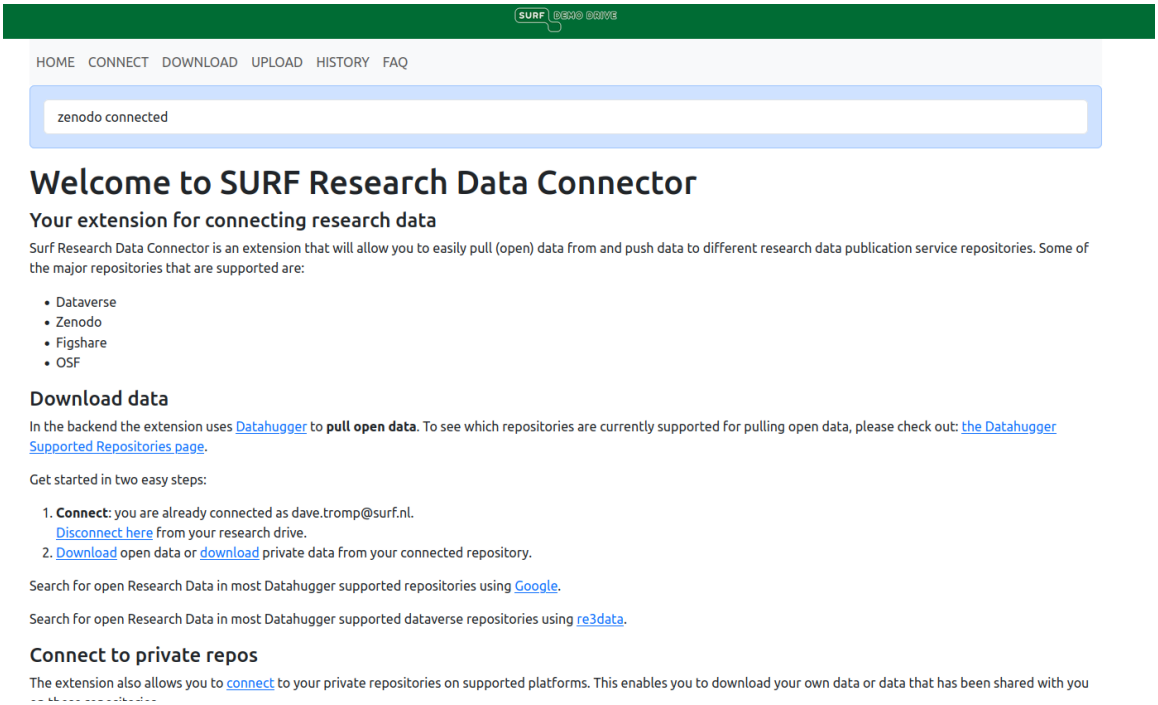
Make sure you are logged in to your Zenodo account. You can easily go to the repository by clicking the link 'Go to Zenodo'.

Then come back and click on the 'Connect by OAUTH' button.

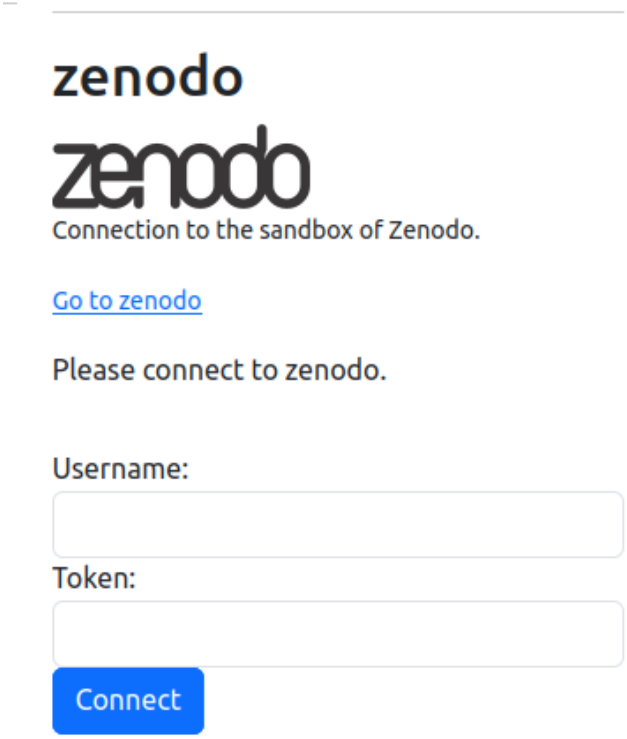

Click the 'Authorize application' button.

After that, you will be redirected back to the app and you should see the message: 'zenodo connected'.

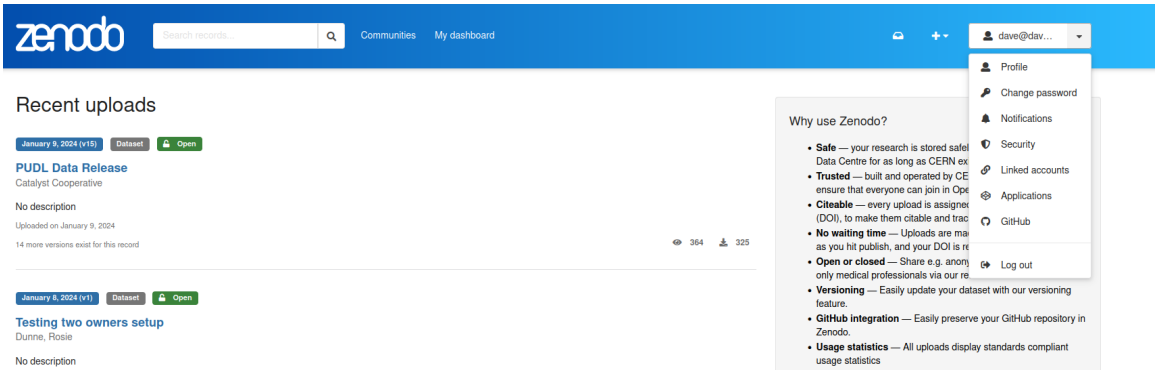



# Connecting using Basic Auth

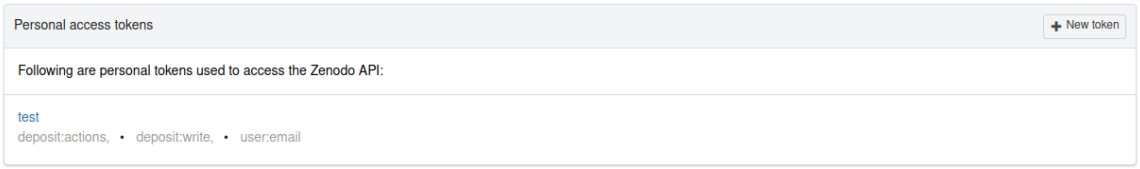
Click on the 'Go to zenodo' link.



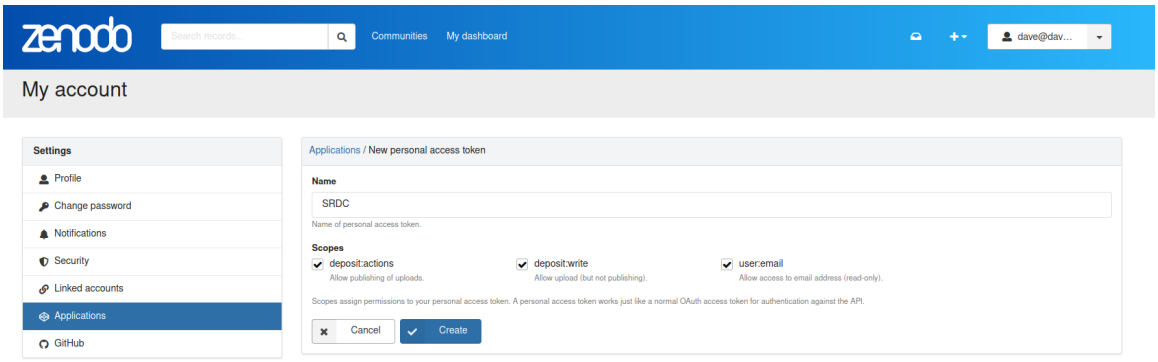

When you are logged in to Zenodo click on your profile in the top right corner and then click 'Applications.



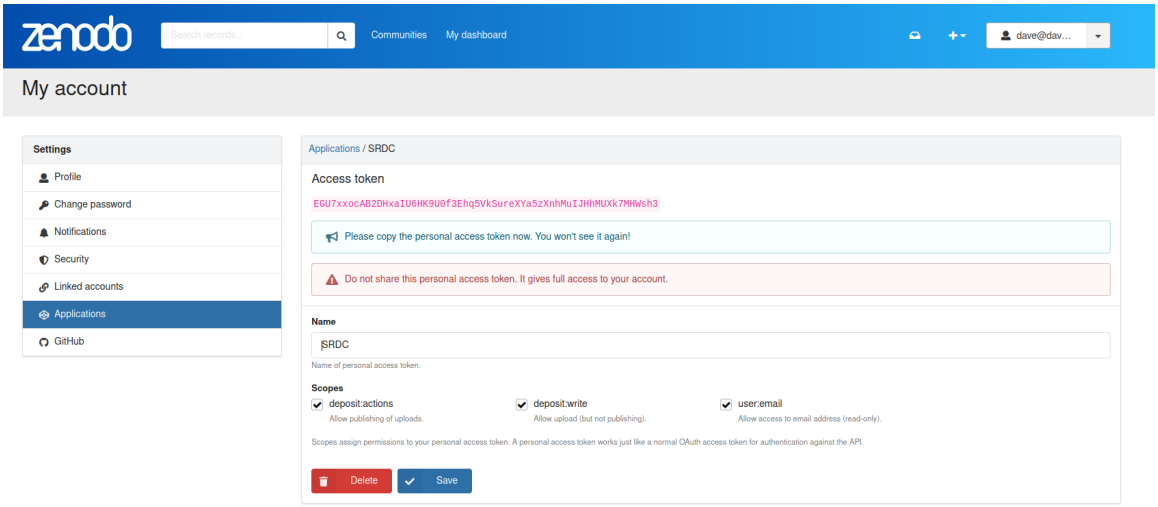

Scroll down to the section 'Personal access tokens' and click 'New token'.



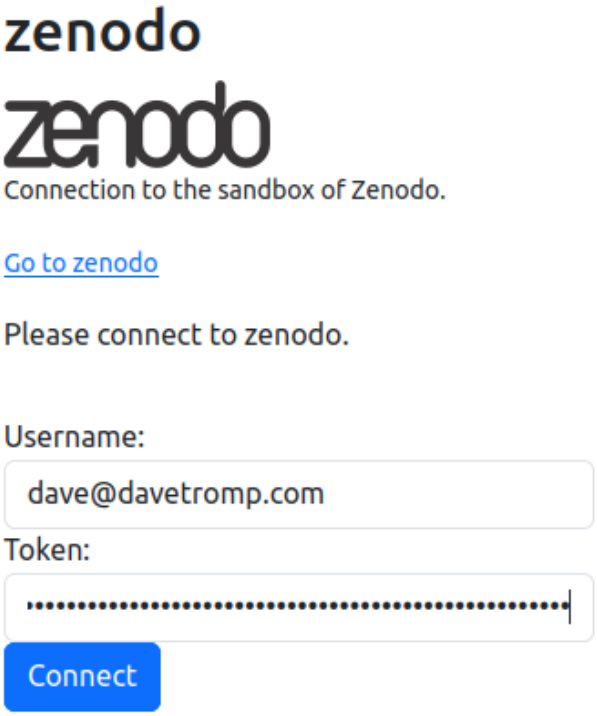

Fill out a name for your token and check all the scopes and press 'create'.



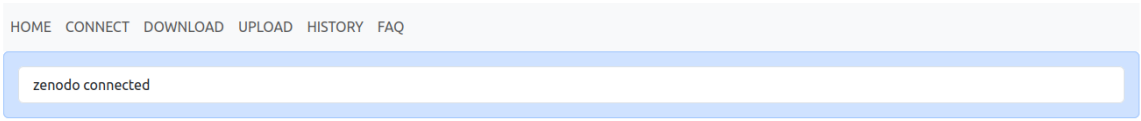

Copy the access token.




Fill in the token, and your username, and click 'Connect'.




If your connection is successful you will see: 'zenodo connected'.




## Connect

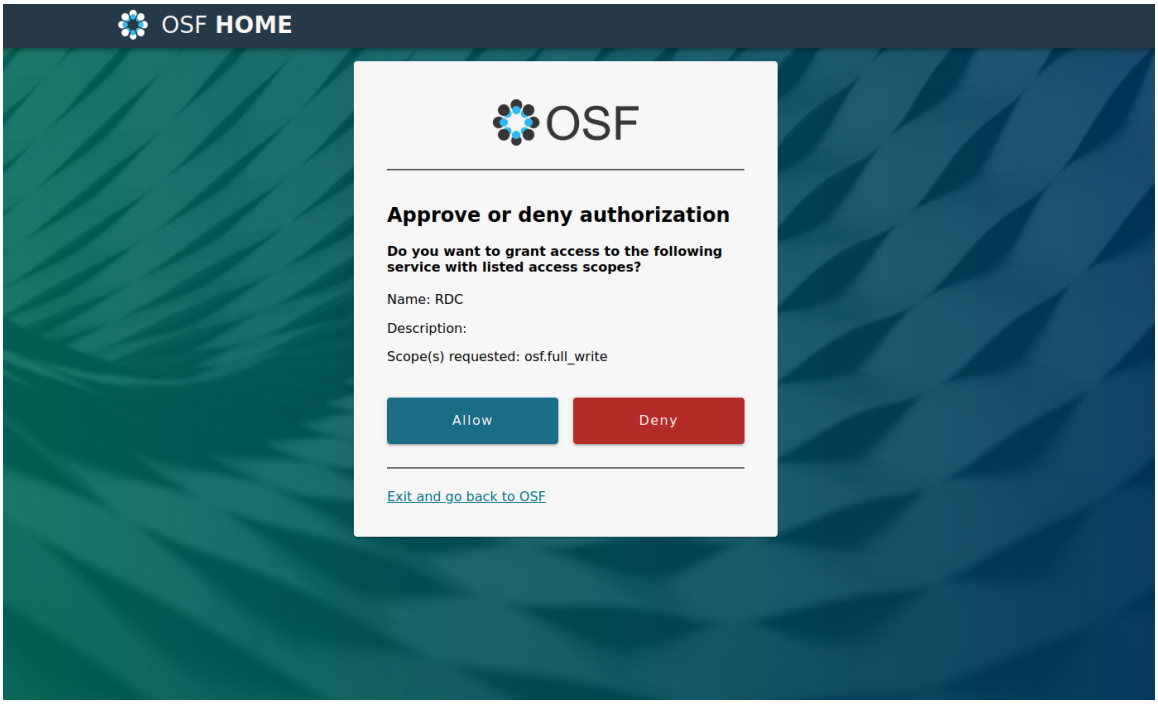
# OSF

## Connecting using OAuth

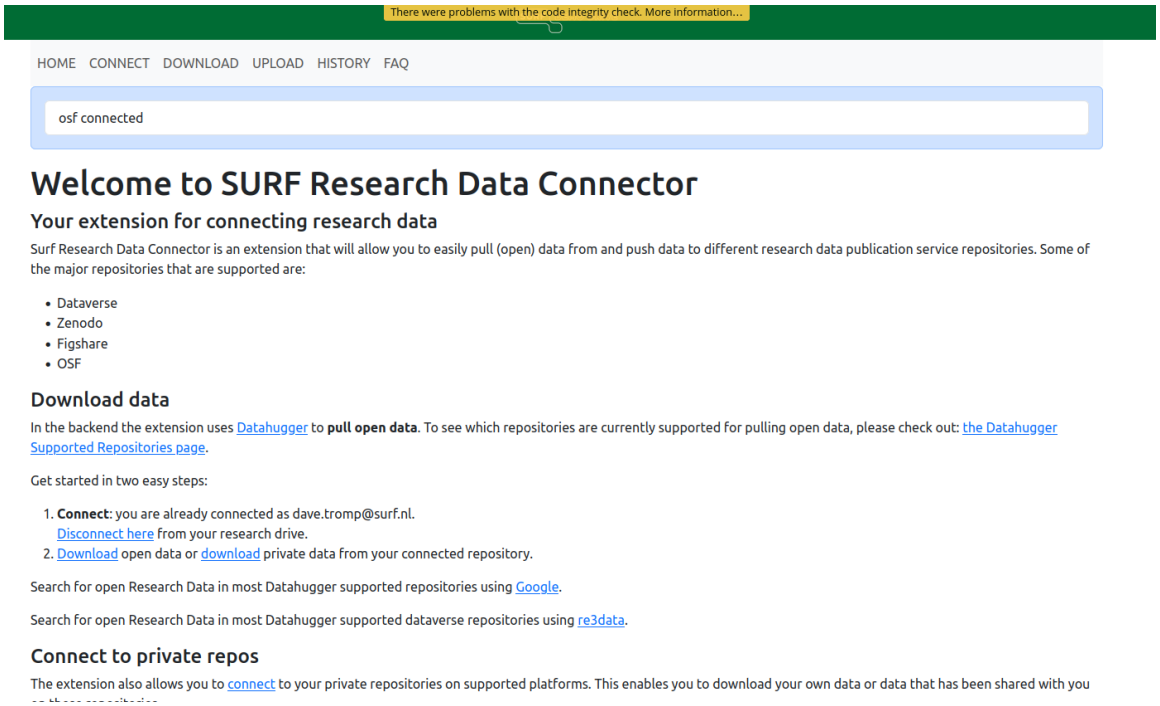
Make sure you are logged in to your OSF account. You can easily go to the repository by clicking the link 'Go to OSF'.

Then come back and click on the 'Connect by OAUTH' button.


Click the 'Allow' button in the below screen.



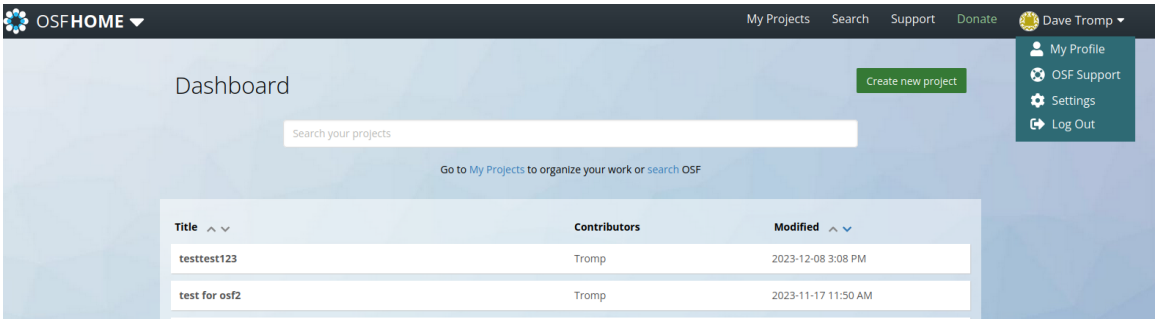

After that, you will be redirected back to the app and you should see the message: 'osf connected'.



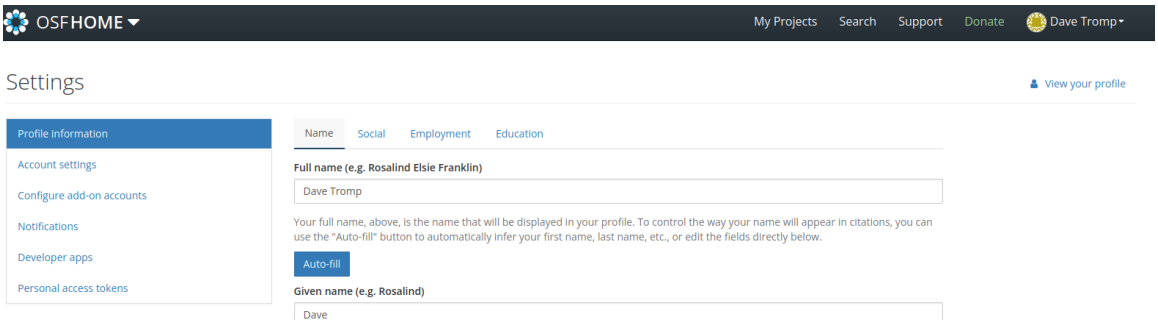

# Connecting using Basic Auth

Click on the 'Go to osf' link.

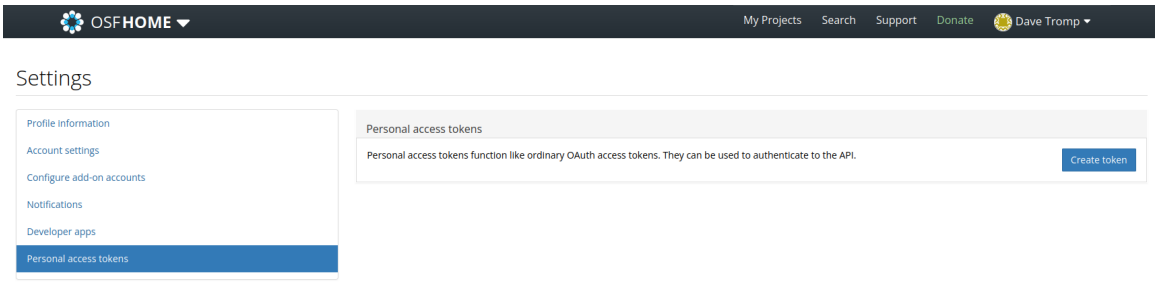

Click on your profile icon in the top right corner and then select 'Settings'.



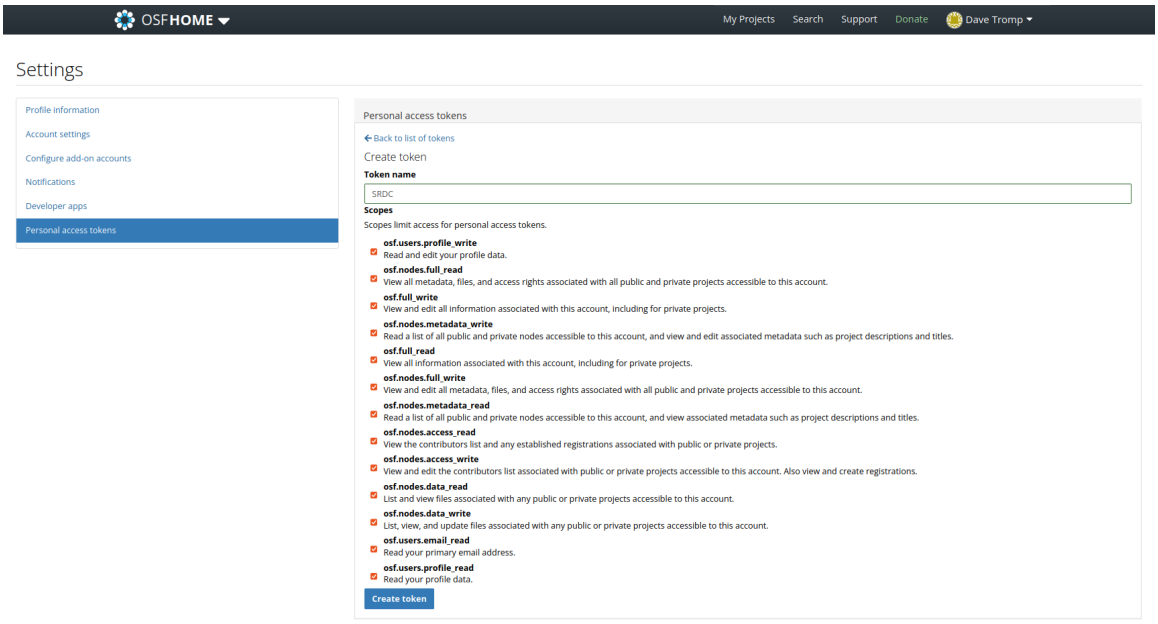

On the settings page select 'Personal access tokens' from the menu on the left side.



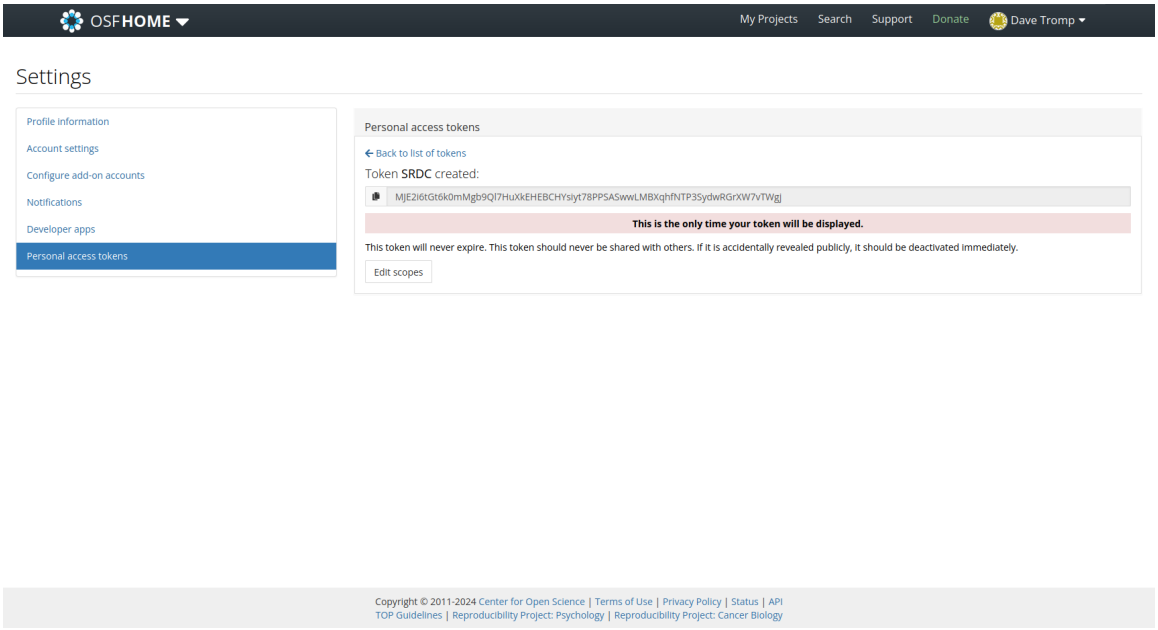

Click 'Create token'.



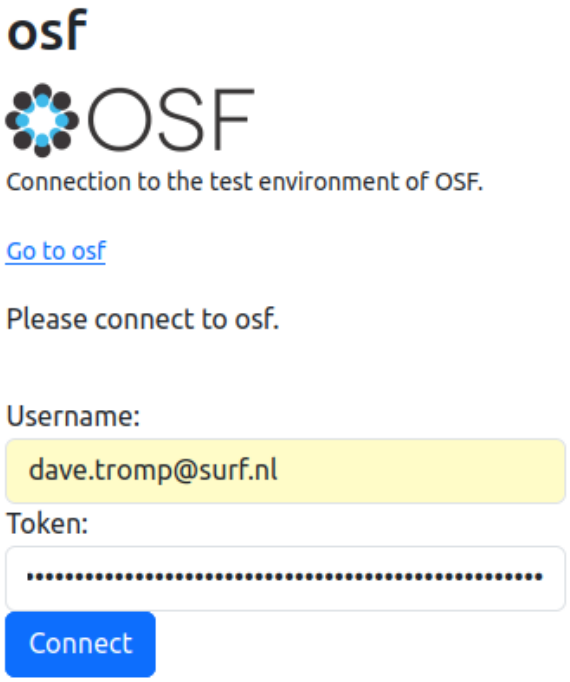

Set a token name, check all the checkboxes and click 'Create token'.



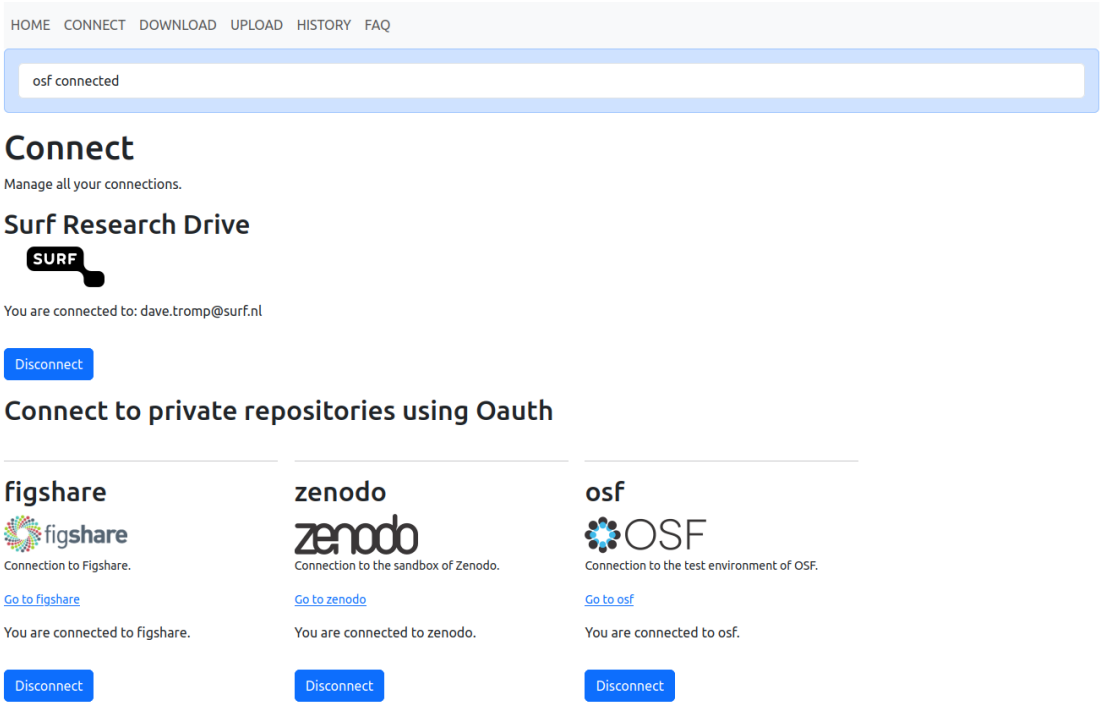

Copy the token.




Paste in the token, fill out the username, and click 'Connect'



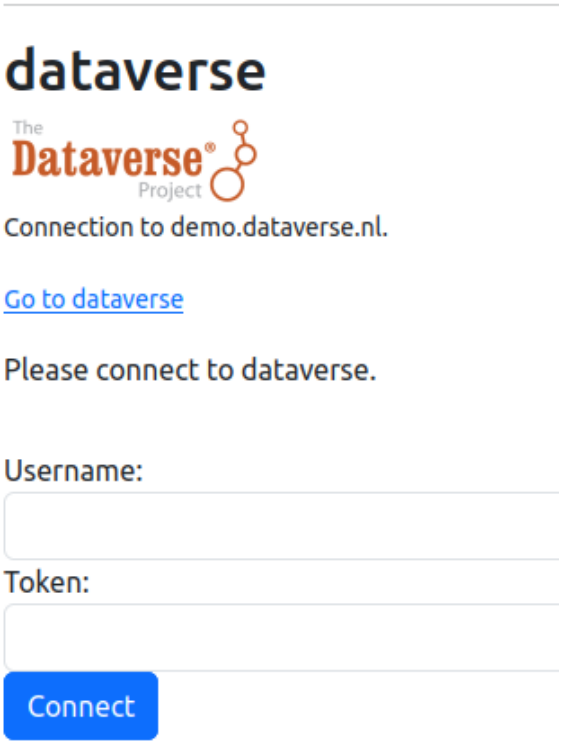

If connecting was successful you will see: 'osf connected'.



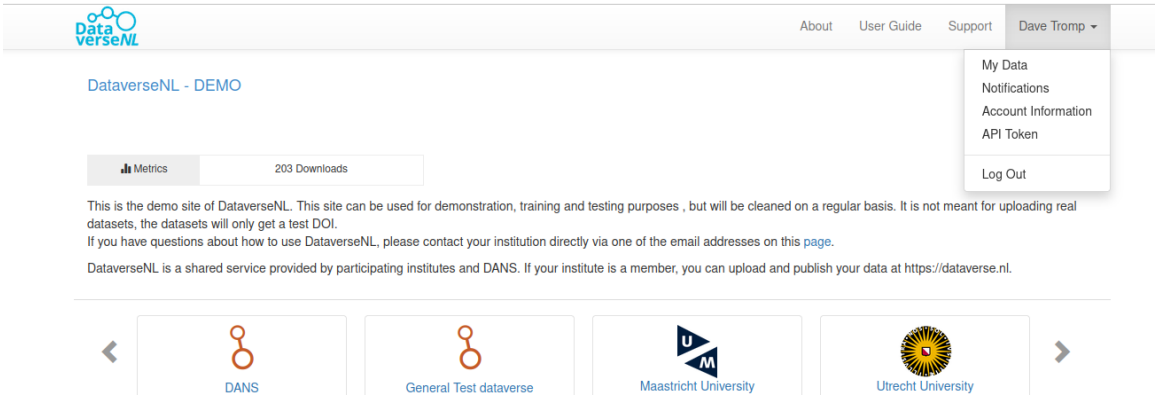

# Dataverse

## Connecting using Basic Auth

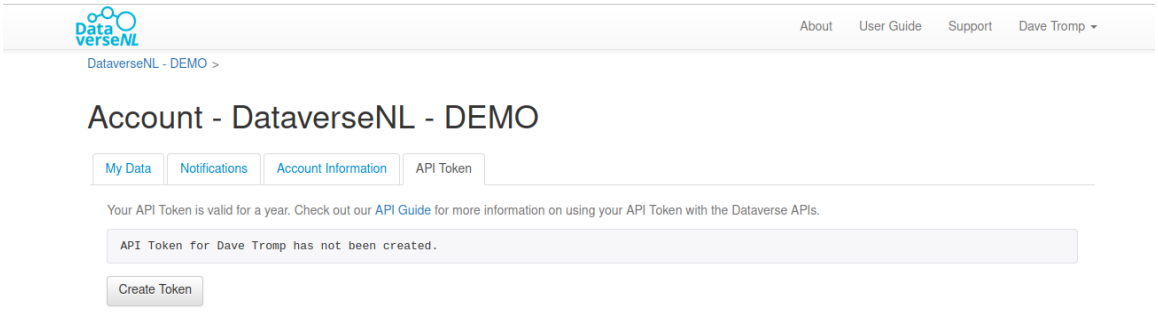
Click the 'Go to dataverse' link.



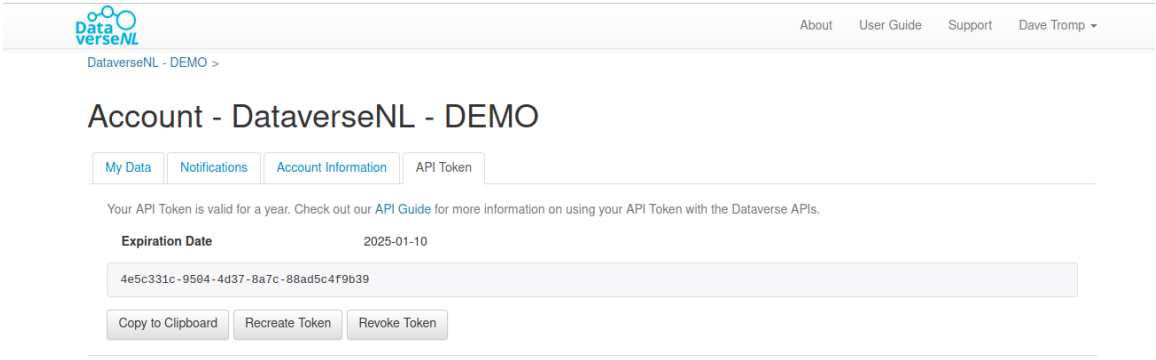

When you are logged in go to your user menu in the top right corner and click 'API Token'.




Then click on 'Create Token'.

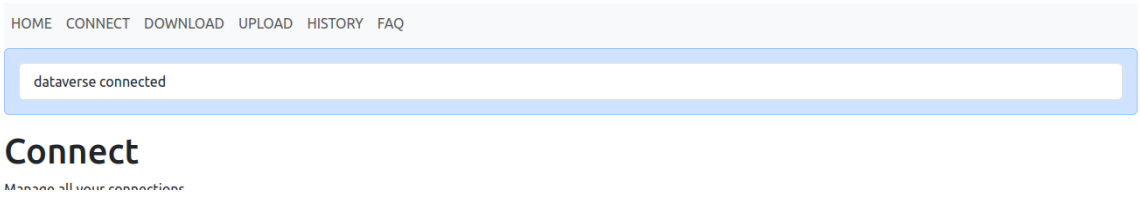



Copy the token.




Paste the token, fill out your username, and click 'Connect'.

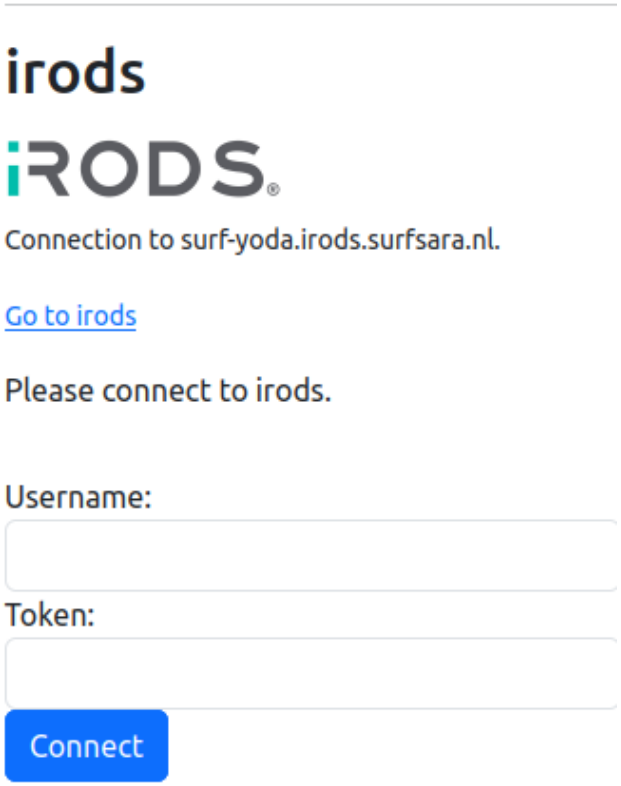

If connecting was successful you will see: 'dataverse connected'.



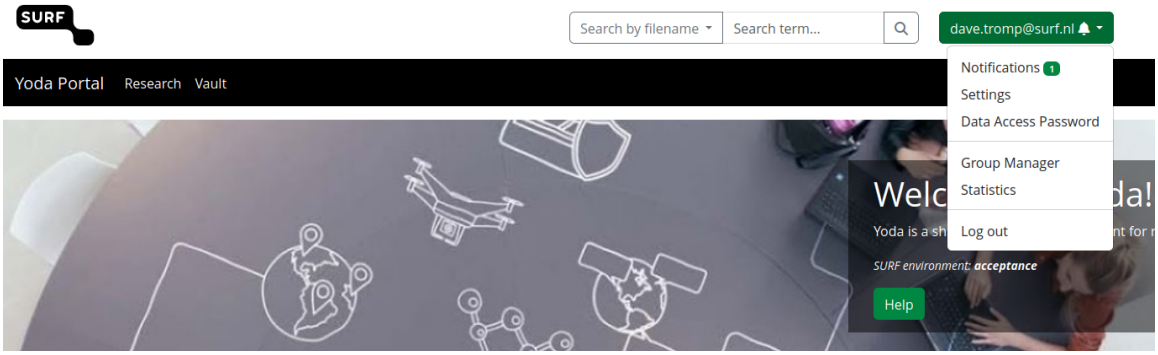

# Irods

## Connecting using Basic Auth

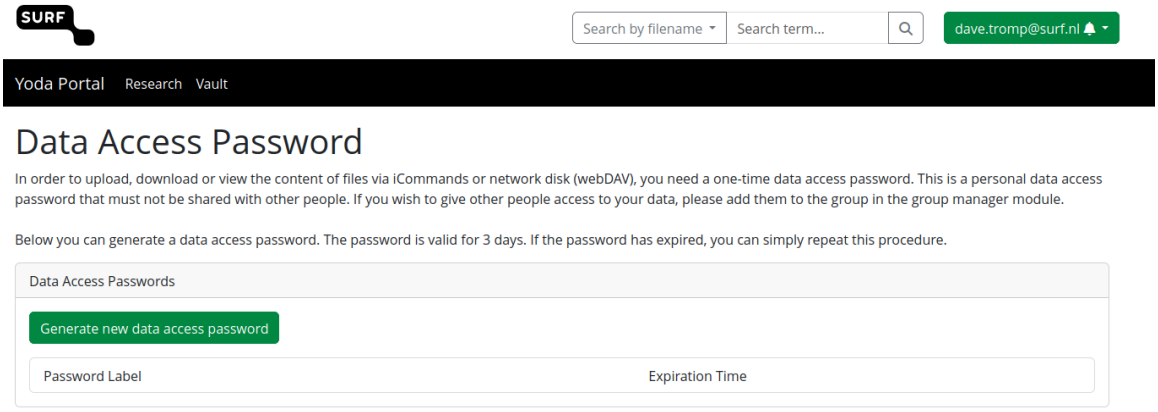
Click the 'Go to irods' link.



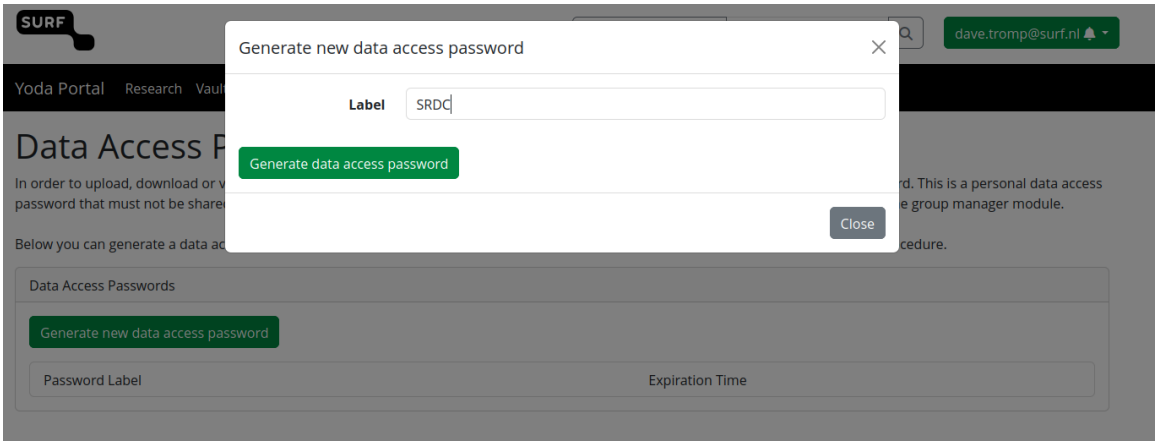

When you are logged in, click your profile name in the top right corner and click on 'Data Access Password'.



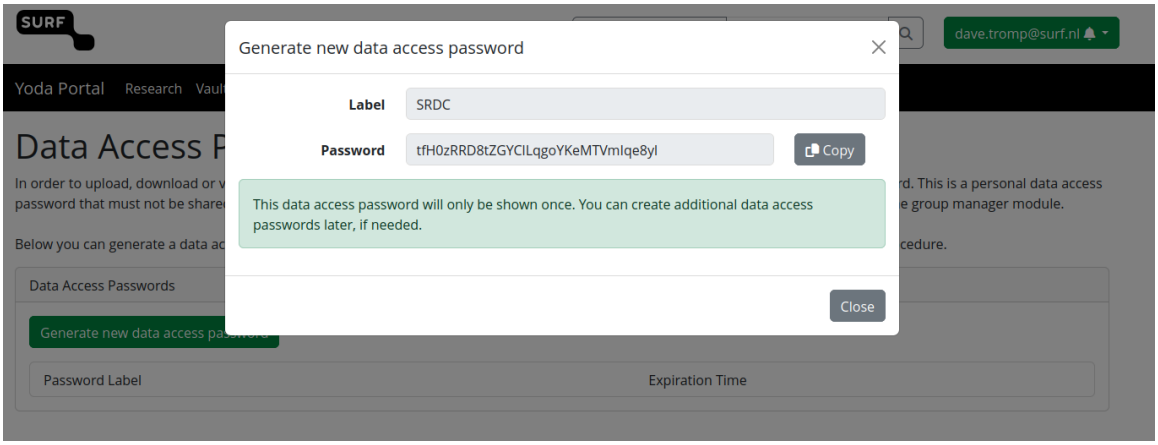

Click on 'Generate new data access password'.



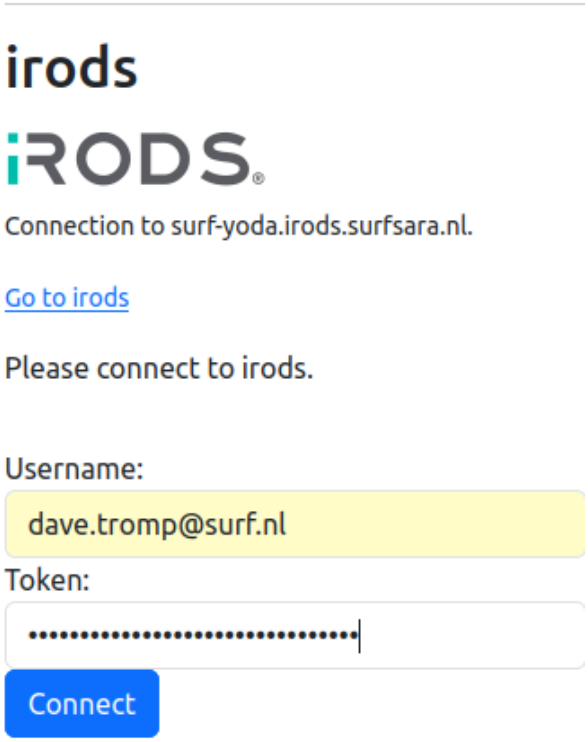

Fill out the label and click 'Generate data access password'.



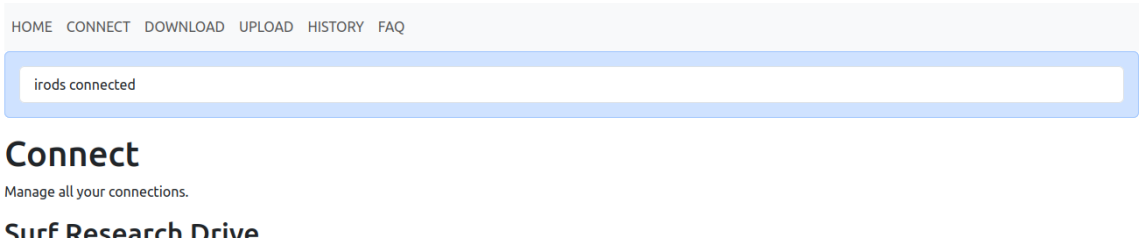

Copy the token.




Paste the token, fill out the username, and click 'Connect'.

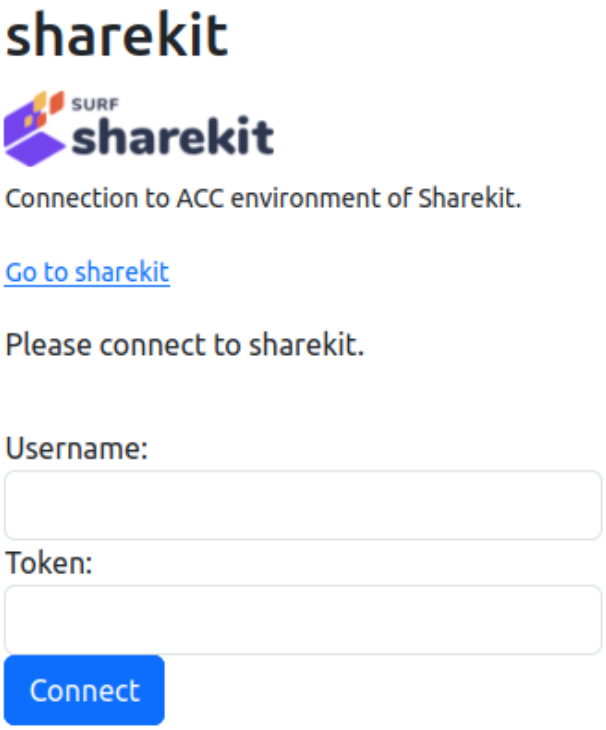



If connecting was successful you will see: 'irods connected'.



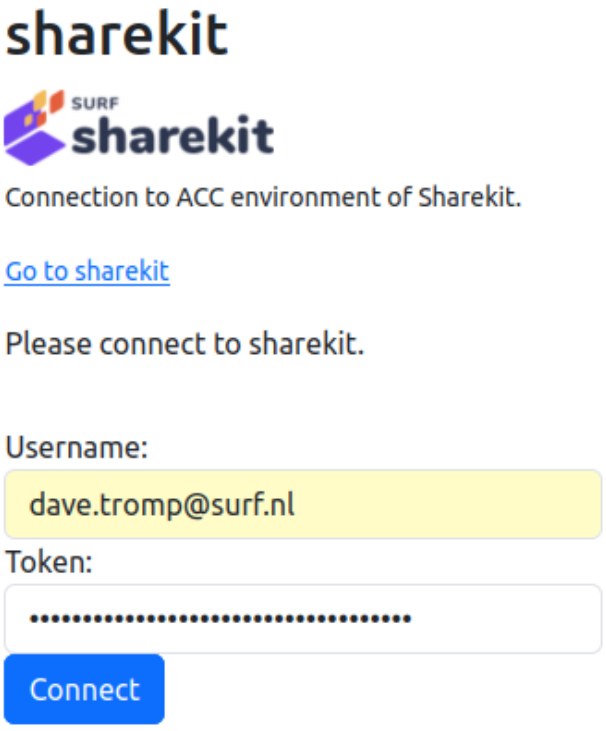

## Sharekit

## Connecting using Basic Auth

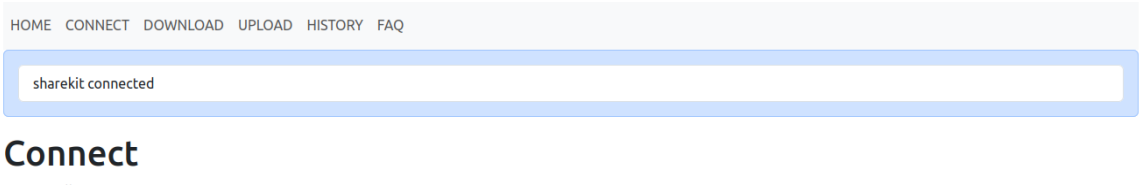



You can get an API key for Sharekit via the Sharekit service desk.

Fill out the username and the API key/Token.

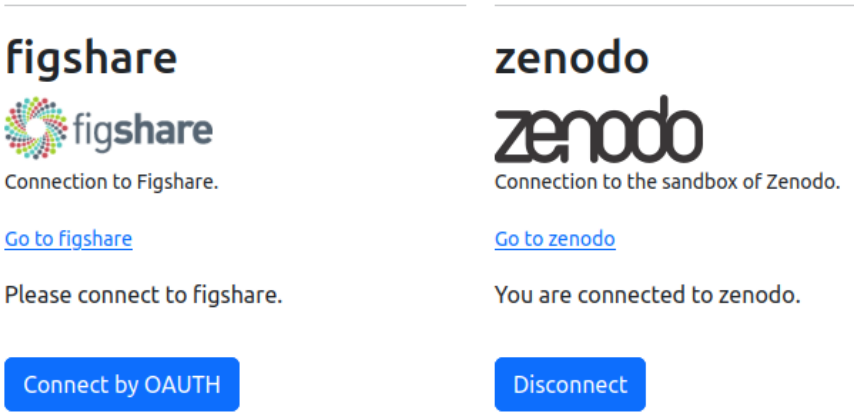



If connecting was successful you will see: 'sharekit connected'.



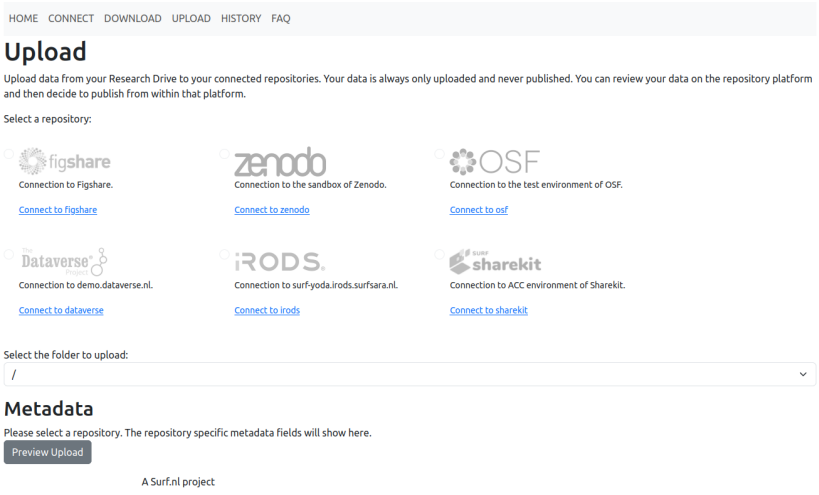

# Disconnecting repositories

When you are connected to a repository there will appear a 'disconnect' button below that repository on the Connect page. Click the corresponding 'disconnect' button to disconnect a repository.

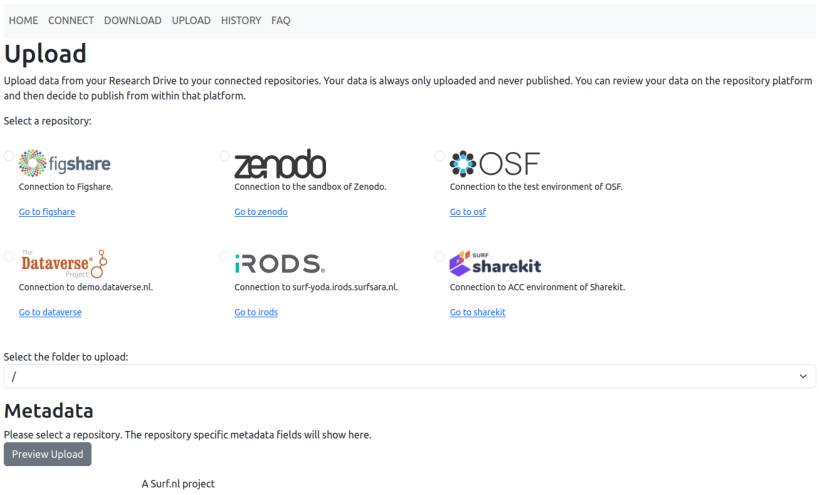



# Uploading data

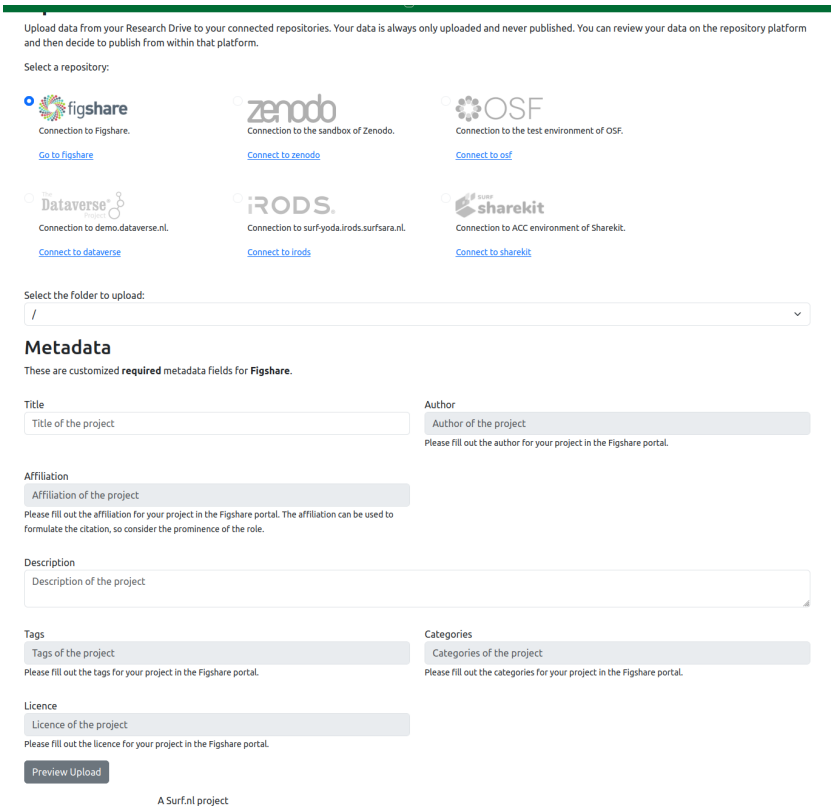
This is what the upload page looks like if you have not yet connected to any repository.



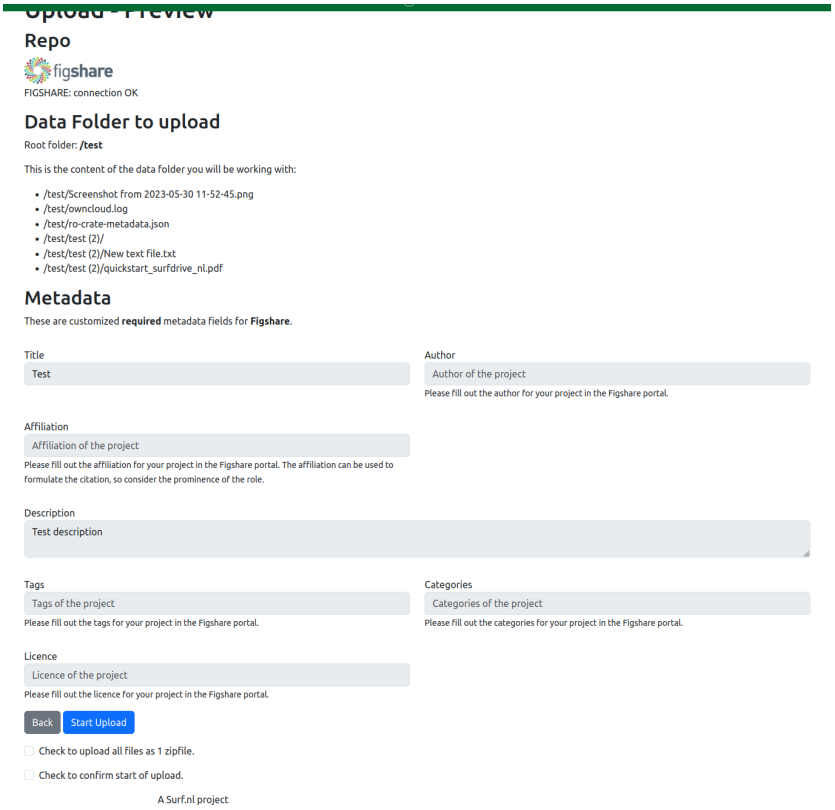

If all the private repositories are connected the upload page will look like this:




Once you select the repository, the metadata fields will change to the fields specific to that repository.




Once you select the folder you want to upload and fill out the data press 'preview'.



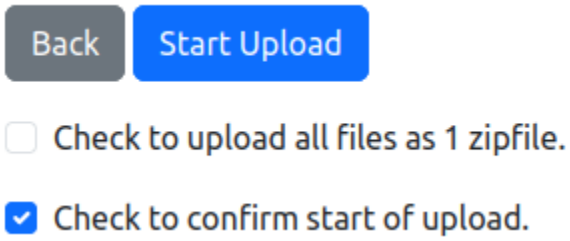

The preview shows:

- connection status
- the folder content
- the metadata

You can press the 'back' button if you like to change something.

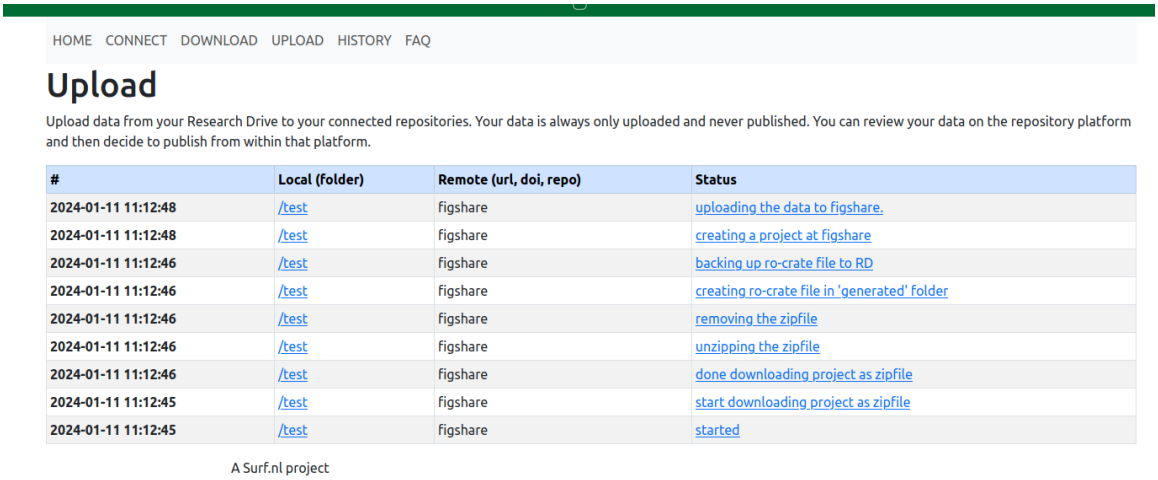
If all looks well you can press the  'Start Upload' button.

You will also need to check the 'Check to confirm start of upload.' checkbox to confirm you are sure you want to start the upload.



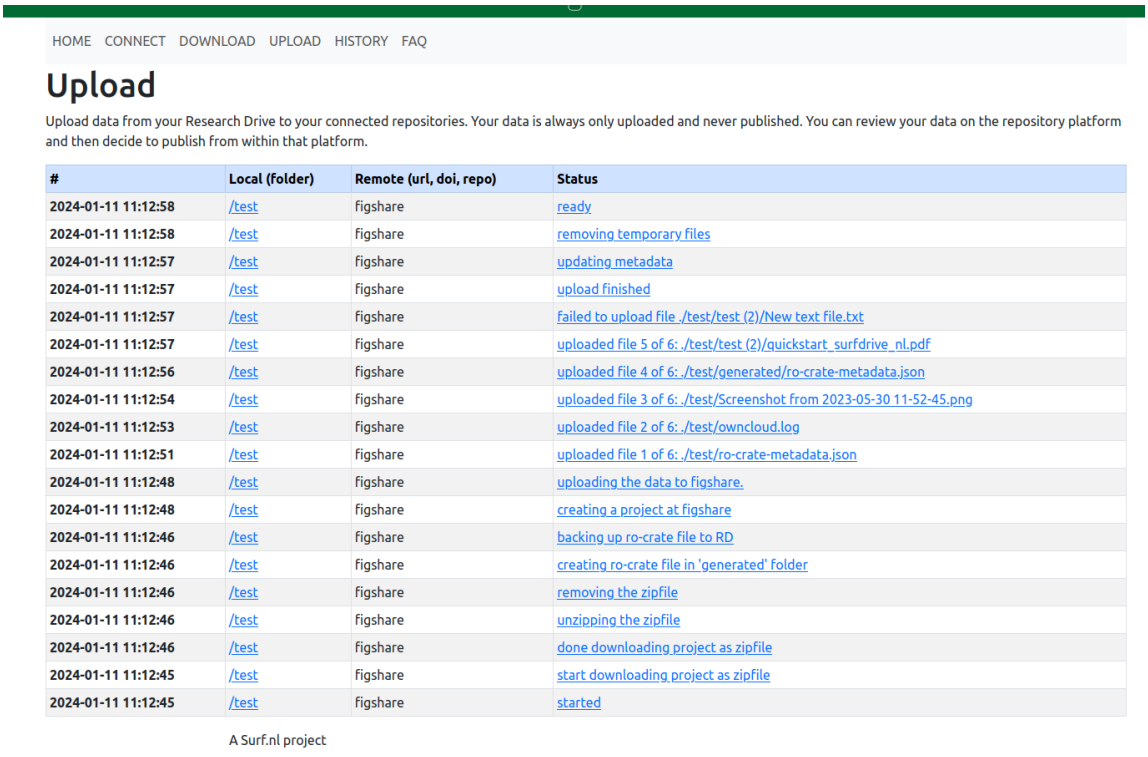

You can also check the 'Check to upload all files as 1 zipfile' if you want this. This is useful if you want to preserve the folder structure of your project exactly as it is. However, most services will create some sort of folder structure that will match your project's folder structure.

Once you clicked 'Start Upload' you will see the status of the upload process.




The status will continuously update until 'ready'.

In the below screenshot, you can see that one file failed to upload. This will be shown to the user, but will not halt the process.



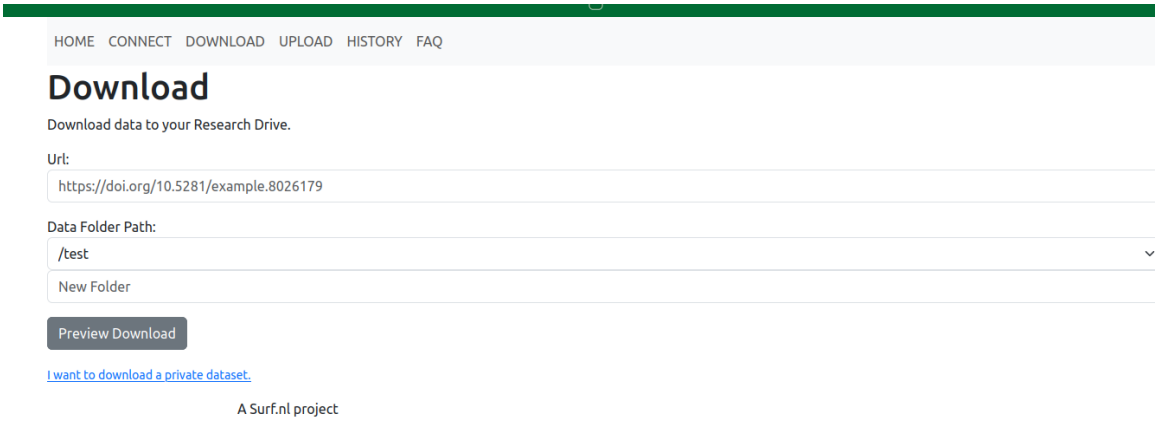

You can only process one upload or download at a time.

# Downloading data

There are two ways to download data:

1. download open data using Datahugger
2. download private data using one of the repository connectors

If you click through to the download page you will first see this:



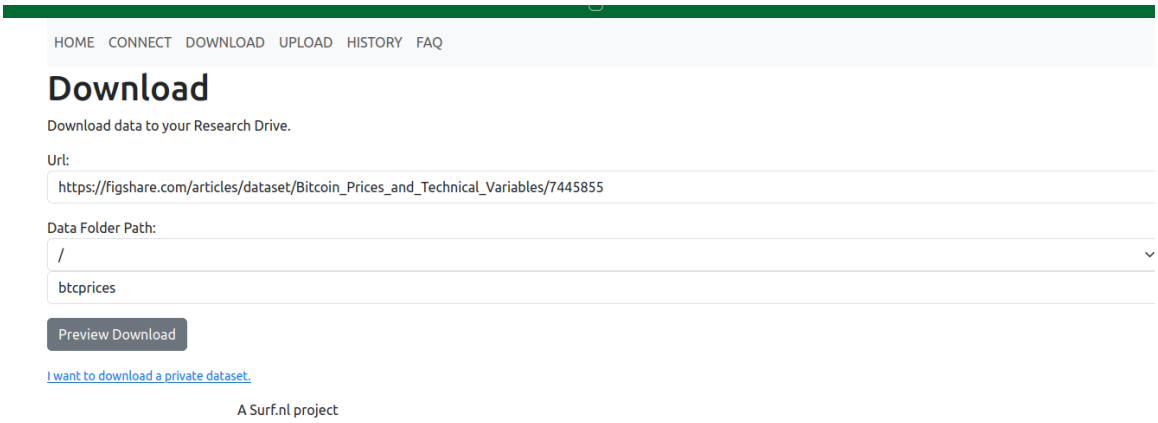

If you already know that your data is private, then you can click ' I want to download a private dataset'. In any other case you can start here and provide a URL to the project you want to download, select a folder on your Research Drive to download the data to, and click 'Preview Download'

## Example

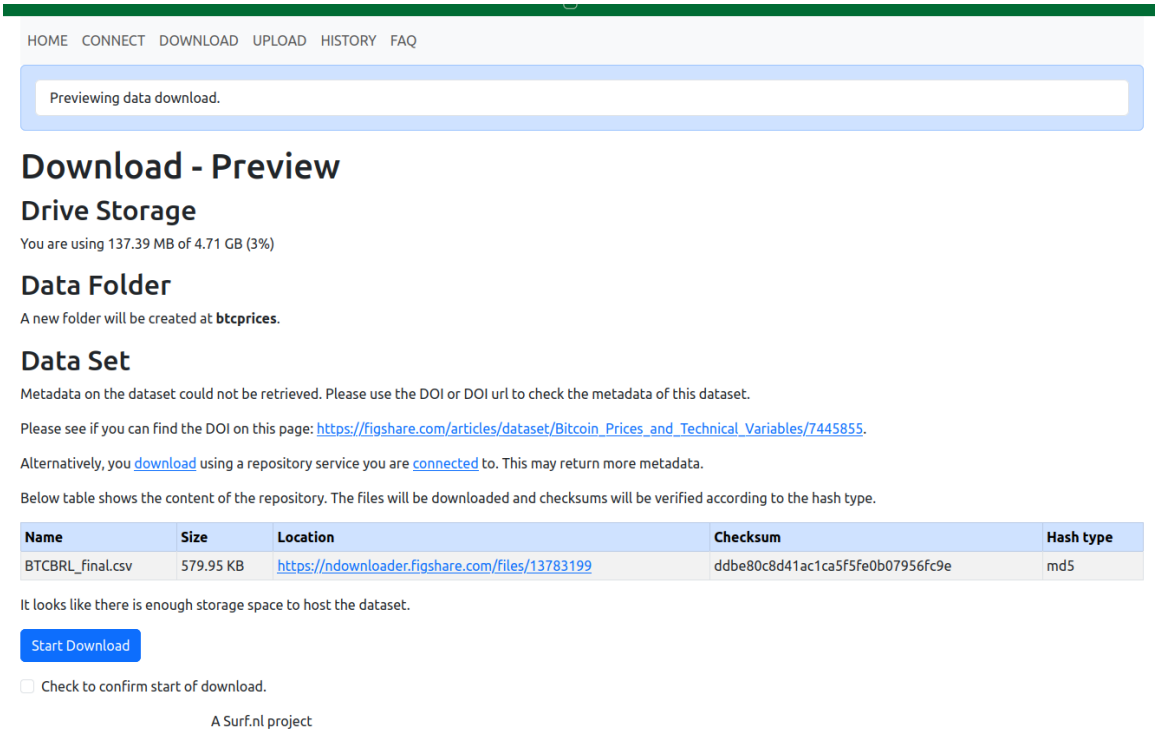
Let's say we want to download data from this repo:

https://figshare.com/articles/dataset/Bitcoin_Prices_and_Technical_Variables/7445855

to /btcprices

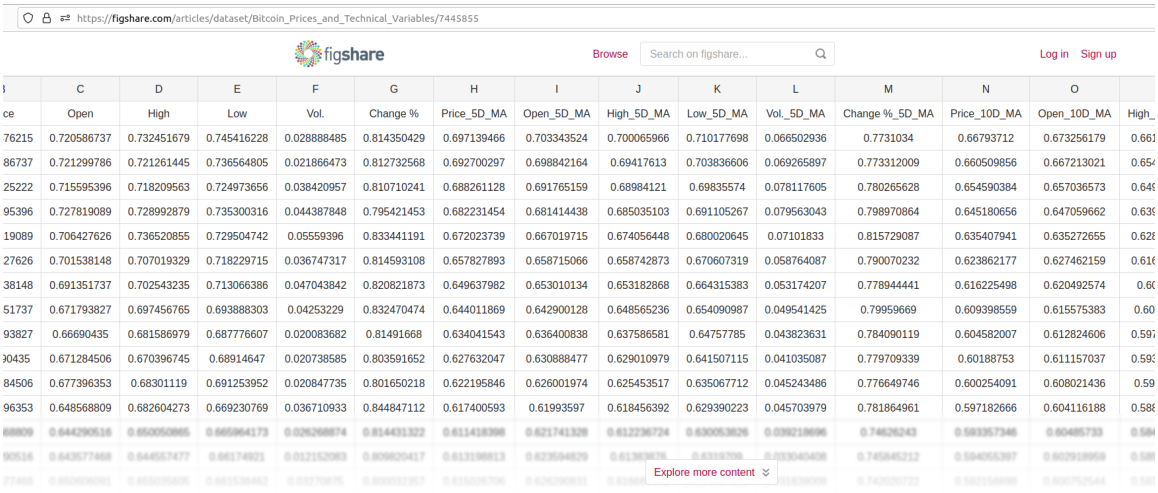



This will be the preview.

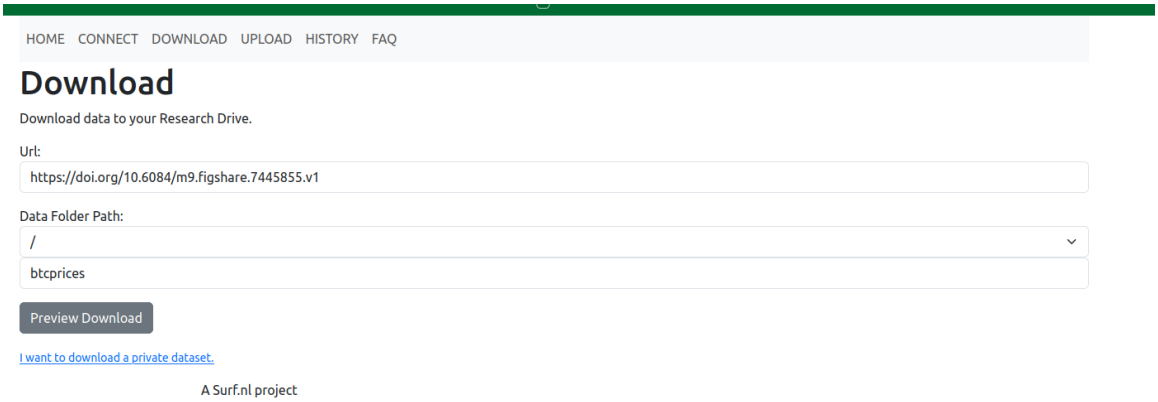



As you can see we cannot preview the metadata of the project using this URL. We can if we use the DOI of this project.

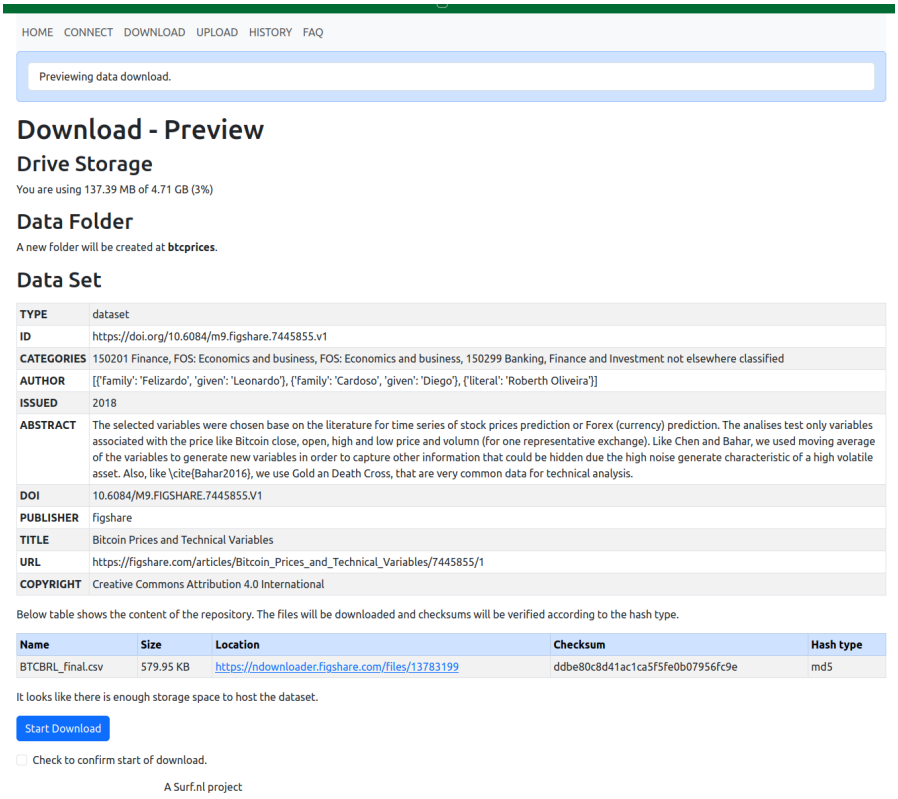
The DOI can be found here:



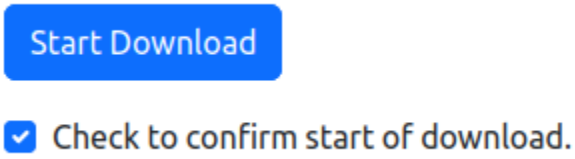

Let's copy the DOI URL and use that.



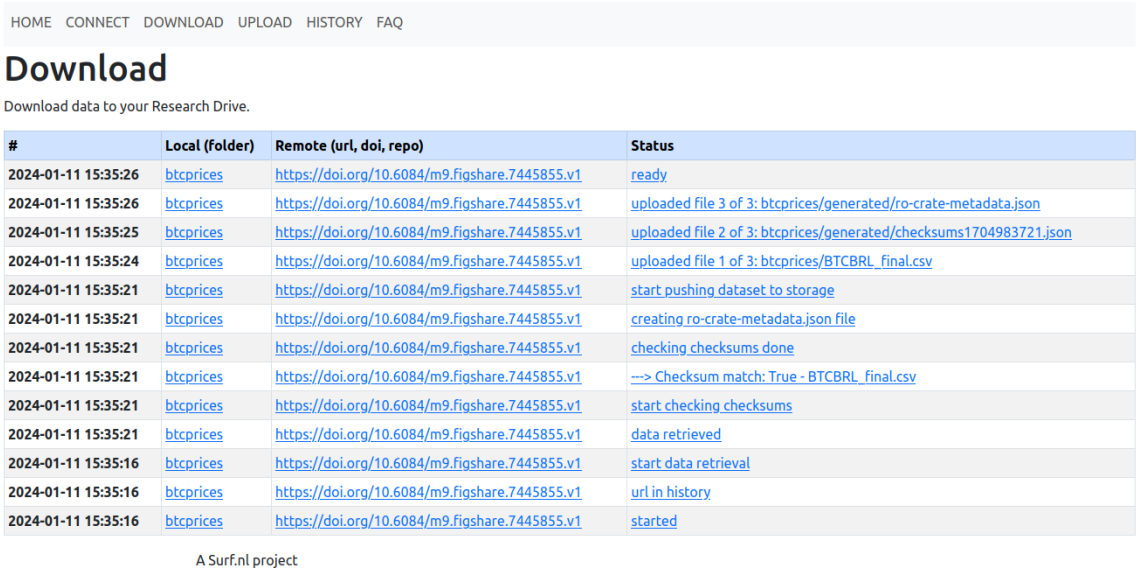

This will provide us with more metadata information.




If everything looks good, you can start the download by checking the 'Check to confirm start of download' checkbox and clicking the 'Start Download' Button.



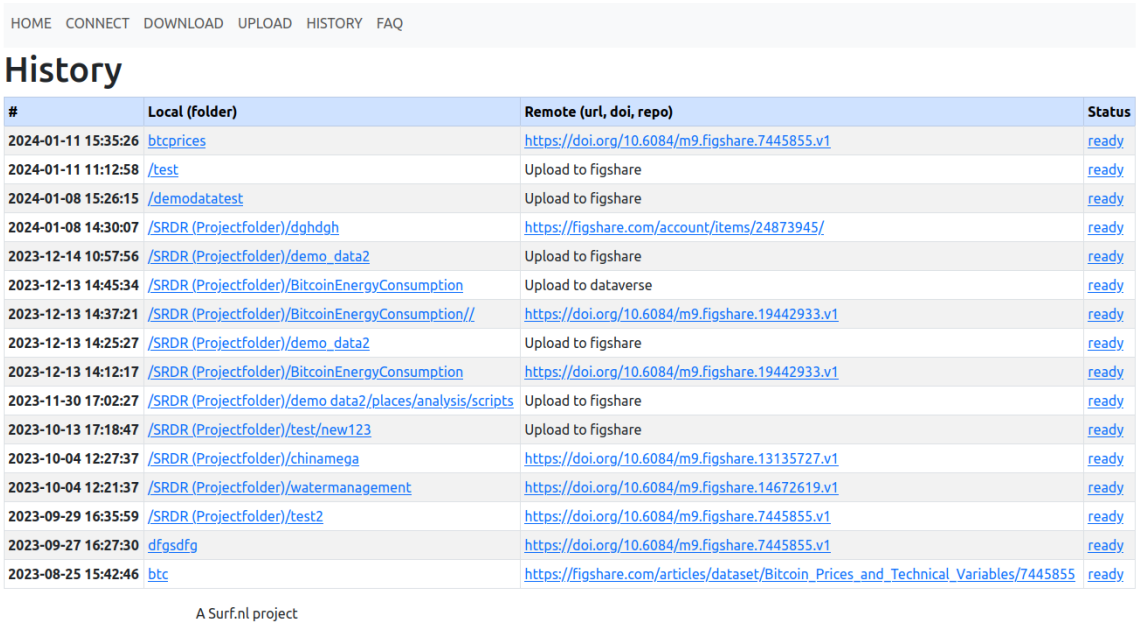

This is the full process of this download.



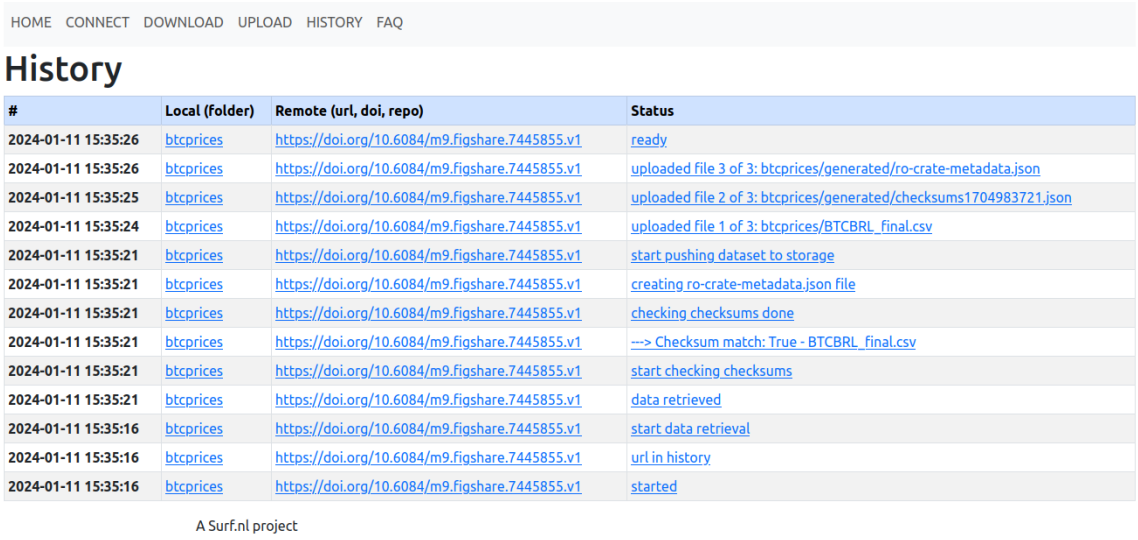

As part of the process, the files will be checked with checksums, and a metadata file will be generated.

# History

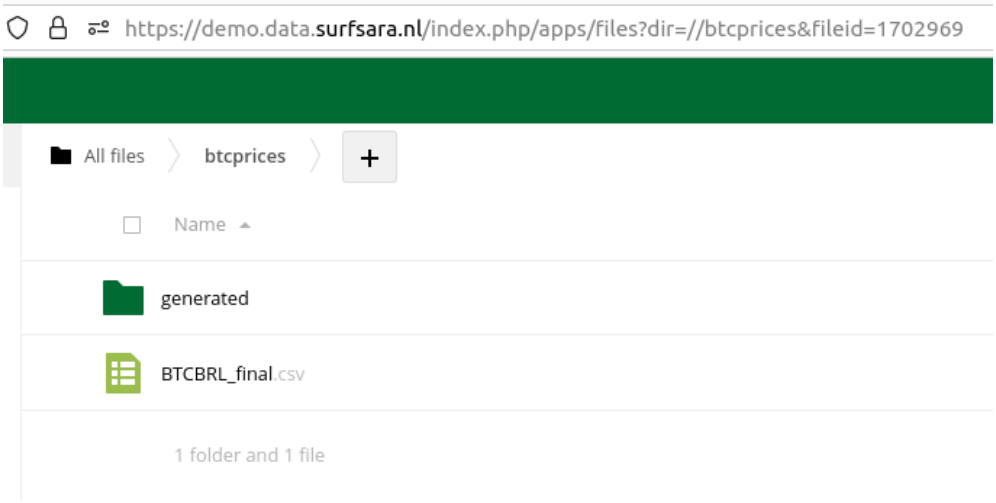
On the history page, you will find a table with all your uploads and downloads.




If you click on the status ('ready') you will be taken to the full history of that specific download or upload.



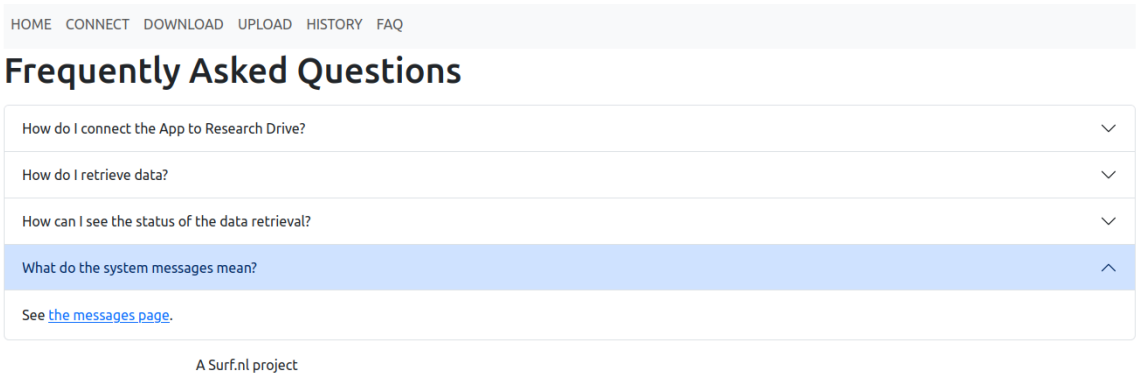

If you click on the Local column ('btcprices') you will be taken to the folder on your Research Drive.

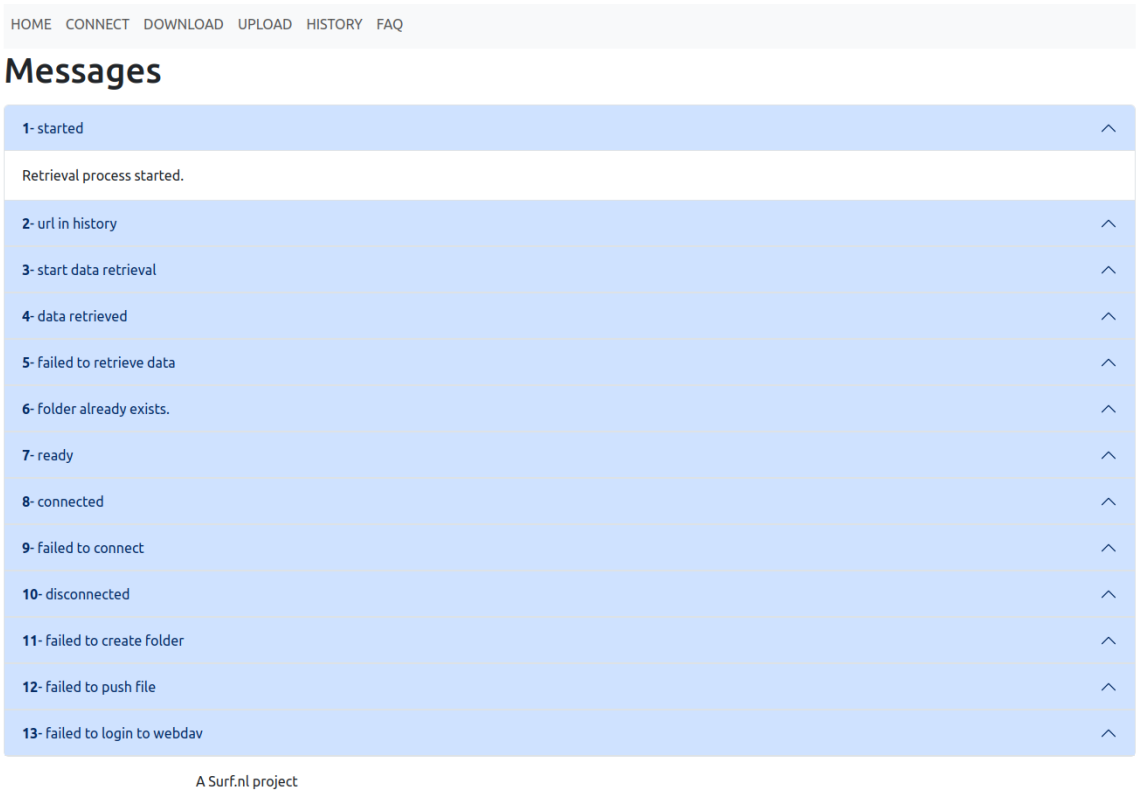



If you click on the link in the Remote column (if available) you will be taken to that linked external repo item.

# FAQ

There is a FAQ page answering your Frequently Asked Questions. If you are wondering about what certain status messages actually mean, then you can find out more via this page.




# Disconnecting the app

To disconnect the app go to the Connect page and click the 'disconnect' button in the Surf Research Drive section.

If you disconnect the Surf Research Drive all other connections will also be disconnected.

# Connect

Manage all your connections.

## Surf Research Drive


You are connected to: dave.tromp@surf.nl

Disconnect