

TCAG Data Portal Client User Guide (For Customers)

2019/09/19

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If you have any problems logging in, please contact: tcag-data-portal@sickkids.ca

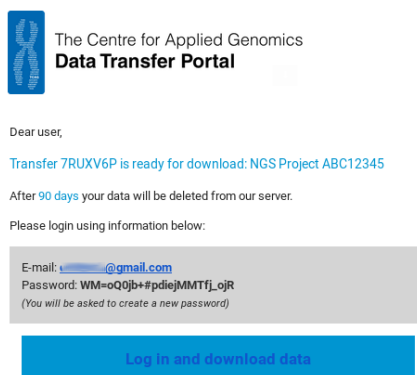
Step 1: Set up your account

- You should have received an email from <no-reply@sickkids.ca> with a link to the portal. If this email is not present in your inbox, please check your spam folder.

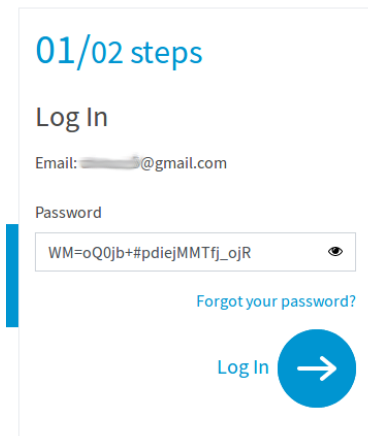
□ ☆ no-reply

Transfer 7RUXV6P is ready for download: NGS Project ABC12345 - Dear user, Transfer 7RUXV6P is ready for download: NGS Project ABC12...

- This email will contain your username (which is your email) and a temporary password.



- Clicking the blue box will direct you to the account set-up page. Use the temporary password to log-in.



01/02 steps

Log In

Email: [redacted]@gmail.com

Password

WM=0Q0jb+#pdiejMMTfj_ojR

[Forgot your password?](#)

Log In →

- You will now be asked now to verify your email address. You should receive another email in your email in your inbox with a link to confirm your email address.

☆ tcag-data-portal.ca

Verify email - Someone has created a TCAG - Data Transfer Portal account with this email address. If this was you, click the link below to verif...



The Centre for Applied Genomics Data Transfer Portal

Someone has created a TCAG - Data Transfer Portal account with this email address. If this was you, click the link below to verify your email address

[Link to e-mail address verification](#)

This link will expire within {3}.

If you didn't create this account, just ignore this message.

- Clicking the blue hyperlink will direct you to a page to create a new password.

The screenshot shows a web form for creating a new password. At the top, a yellow box contains the text: "You need to change your password to activate your account." Below this, it says "02/02 steps" in blue. The main heading is "Create your new password". The email field is pre-filled with "_____@gmail.com". There are two password fields: "New Password" and "Confirm password", both with eye icons for toggling visibility. A blue "Log In" button with a right-pointing arrow is at the bottom right. A link for "TCAG Terms and Conditions" is at the bottom center.

- Congrats on setting up your account! You should now be directed to a page containing your data. You can always access your data at <https://data-portal.tcag.ca/> and log in using your email and password.

Step 2: Downloading your data

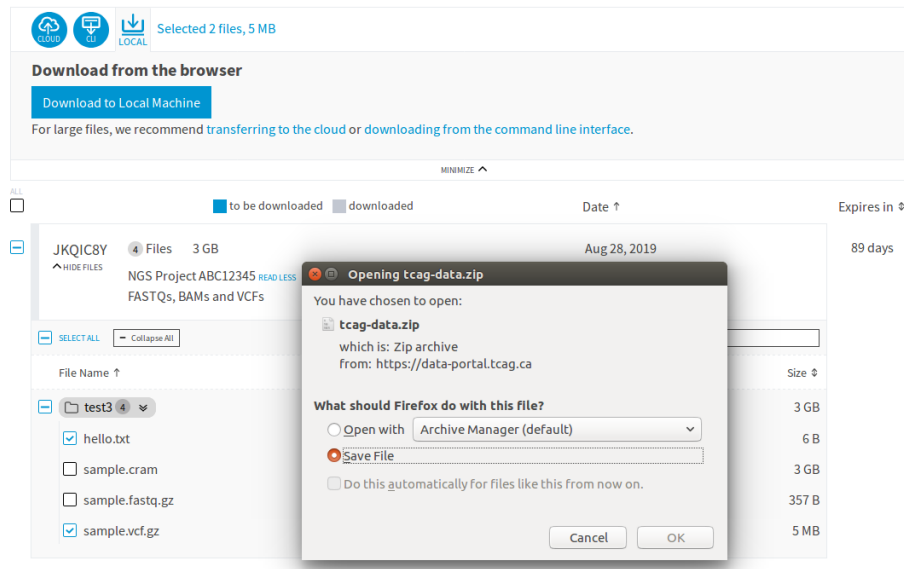
- Files can be transferred to your local computer or to the cloud (via DNASTack). To transfer the files your computer, you can use LOCAL option, which will transfer your files directly through the browser. You can also use the Command Line Interface (CLI) tools, which will transfer your files using the command line terminal. For large files like FASTQs and BAMs/CRAMs , we strongly recommend you use the CLI option.

The screenshot shows the TCAG Data Transfer Portal interface. The browser address bar shows <https://data-portal.tcag.ca/transfers>. On the left is a sidebar with "TRANSFERS" (active), "HISTORY", "SETTINGS", and "LOGOUT". The main area has a header with three icons: "CLOUD" (cloud), "CLI" (terminal), and "LOCAL" (download), which are highlighted with a red box. Below the icons, it says "selected 0 files, 0 B". There are two tabs: "to be downloaded" (active) and "downloaded". A file entry is shown: "JKQIC8Y" with 4 files and 3 GB size, dated "Aug 28, 2019", and expires in "89 days". Below this is a "SELECT ALL" button and a "Collapse All" button. A table lists the files:

File Name	Size
test3	3 GB
hello.txt	6 B
sample.cram	3 GB
sample.fastq.gz	357 B
sample.vcf.gz	5 MB

2a) Using the LOCAL option

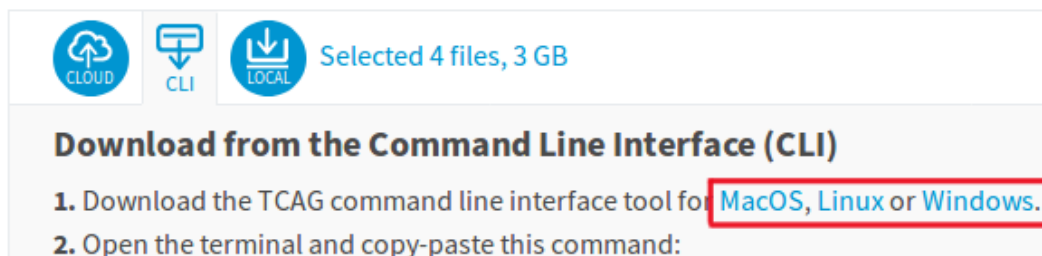
- Select the files you want to download by checking the box beside them, hover your mouse over the LOCAL icon situated on the top left and click “Download to Local Machine”.



2b) Using the CLI tool on Mac/Linux

(If you are downloading your data on the SickKids HPF cluster, please first take a look at the “NOTE” at the end of this section)

- Download the TCAG command line interface tool by hovering your mouse over the CLI icon and clicking the MacOS or Linux link. Save the file (tcag-client-x.x.x) to your Downloads folder.



- Open a Terminal window on your computer.
 - On a Mac, use the **Spotlight Search button** in your menu bar and type in “Terminal”.
 - In Linux, use the keyboard shortcut Ctrl+Alt+T

- Type in the commands below. Lines with a # represent a comment and explains the command. Lines with a \$ are the commands to type in.

First, go to your Download directory using the cd command

\$ cd Downloads/

Give the tcag-client-x.x.x tool executable permissions

\$ chmod u+x tcag-client-1.4.2

Run the tool as follows ./tcag-client-1.4.2 download -p <TRANSFER ID>:/ The transfer ID is a 7 letter alphanumeric code in upper-case located as seen below



\$./tcag-client-1.4.2 download -p JKQIC8Y:/

- You will be prompted for your username (which will be your email) and password. Once you have entered that correctly, the download will start. Files will be saved in Downloads -> <TRANSFER ID> (In this example, Downloads -> JKQIC8Y)

- Screenshot below of the above commands

```
~$ cd Downloads/
Downloads$ chmod u+x tcag-client-1.4.2
Downloads$ ./tcag-client-1.4.2 download -p JKQIC8Y:/
? Username: @gmail.com
? Password: [hidden]
[info]: You are about to download 4 files.
[info]: =====
[info]: All 4 files have been successfully downloaded.
[info]: =====
Downloads$
```

NOTE: If you're at SickKids and downloading the data to HPF, you will need to do so on the qlogin node with a minimum vmem of 40G

- Type in the commands below. Lines with a # represent a comment and explains the command. Lines with a \$ are the commands to type in

Log in to your HPF account

\$ ssh hpf.ccm.sickkids.ca

Log in into one of the interactive nodes with min of 40G mem

\$ qlogin -l vmem=40G

Download the CLI tool for Linux

\$ wget -O tcag-client-1.4.2 <https://data-portal.tcag.ca/cli/linux/latest>

\$ chmod -x tcag-client-1.4.2

By default, if you are in /home/<username> directory, you will only have 10G space allocated. You will need to transfer your files to your lab directory on HPF (either at /hpf/projects or /hpf/largeprojects. Use the --output-dir argument

```
$ ./tcag-client-1.4.2 download -p JKQIC8Y:/ --output-dir /hpf/projects/AndrewsLab/
```

2c) Using the CLI tool on Windows

- Download the TCAG command line interface tool by hovering your mouse over the CLI icon and clicking the Windows link. Save the file (tcag-client-x.x.x.exe) to your Downloads folder.

- Open a PowerShell window on your computer.
- Get into the Start Menu, open All apps, click the Windows PowerShell folder and tap Windows PowerShell OR
- Get into the Start Menu, type PowerShell in the search bar, and click Windows PowerShell

- Type in the commands below. Lines with a # represent a comment and explains the command. Lines with a \$ are the commands to type in.

```
# First, go to your Download directory using the cd command
$ cd Downloads/
```

```
# Give the tcag-client-x.x.x tool executable permissions
$ chmod u+x tcag-client-1.4.2
```

Run the tool as follows **`./tcag-client-1.4.2 download -p <TRANSFER ID>:/`** The transfer ID is a 7 letter alphanumeric code in upper-case located as seen below



```
$ ./tcag-client-1.4.2 download -p JKQIC8Y:/
```

- You will be prompted for your username (which will be your email) and password. Once you have entered that correctly, the download will start. Files will be saved in Downloads -> <TRANSFER ID> (In this example, Downloads -> JKQIC8Y)

- Screenshot below of the above commands

```
Windows PowerShell (x86)
PS C:\Users\> cd Downloads
PS C:\Users\> \Downloads> ./tcag-client-1.4.2.exe download -p JKQIC8Y:/
Username: @gmail.com
Password: [hidden]
[info]: You are about to download 4 files.
```

2d) CLI tool advanced usage

- If you would like to make the tcag client non-interactive and automate the downloads without username and password prompts, please create a “.env” file in the same directory as the client. Populate the file with the lines below

```
REST_API_HOST_URL=https://data-portal.tcag.ca
API_VERSION=v1
OAUTH_HOST_URL=https://data-portal.tcag.ca
OAUTH_CLIENT_ID=tcag-direct-access
TRANSFER_CLI_USERNAME=<YOUR EMAIL>
TRANSFER_CLI_PASSWORD=<YOUR PASSWORD>
```

- To see list of arguments for the CLI tool

```
$ ./tcag-client-1.4.2 -h
```

Useful arguments are

-t <INT> # parallelize downloads

--output-dir 'dirname' # save output to a different folder

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