

# How to access google drive from Mox

Step-by-step guide to using "drive" (a google drive push/pull client written in "go" and preinstalled in /sw/contrib/go on Hyak/Mox. Note: Needs a build node for internet access

Step 1: (one time) Set up your User environment to add the /sw/contrib/go area to your \$PATH variable:

1. start an interactive session on a build node on Mox:

```
salloc -p build srun --pty bash
```

2. add these paths to your ~/.bashrc (or just export them, you might not even need all of them):

```
export PATH=$PATH:/sw/contrib  
export PATH=$PATH:/sw/contrib/go/bin  
export GOPATH=/sw/contrib/go/
```

3. Log out and back in again to re-read the .bashrc

4. Run "**drive**" to see this output:

```
[mbw@n2163 go]$  
[mbw@n2163 go]$ drive  
Usage: drive <command>
```

where <command> is one of:

- about print out information about your Google drive
- clashes fix clashes by renaming or trashing all files
- copy copy remote paths to a destination
- cp copy remote paths to a destination
- deinit removes the user's credentials and initialized files
- del deletes the items permanently. This operation is irreversible
- delete deletes the items permanently. This operation is irreversible
- diff compares local files with their remote equivalent
- du similar to util `du` gives you disk usage
- edit-desc edit the attributes of a file
- edit-description edit the attributes of a file
- emptytrash permanently cleans out your trash
- features returns information about the features of your drive
- file-id retrieve the fileid for the specified paths
- help Get help for a topic
- id retrieve the fileid for the specified paths
- index fetch indices from remote
- init initializes a directory and authenticates user
- issue report an issue to the project's issue tracker
- list lists the contents of remote path
- ls lists the contents of remote path
- md5sum prints a list compatible with md5sum(1)
- move move files/folders
- mv move files/folders
- new create a new file/folder
- open open a file in the appropriate filemanager or default browser
- pub publishes a file and prints its publicly available url
- pull pulls remote changes from Google Drive
- push push local changes to Google Drive
- qr open up the QR code for specified files
- quota prints out information related to your quota space
- rename renames a file/folder
- report report an issue to the project's issue tracker
- report-issue report an issue to the project's issue tracker
- share share files with specific emails giving the specified users specifies roles and permissions
- star star files
- stat display information about a file
- touch updates a remote file's modification time to that currently on the server
- trash moves files to trash
- unpub revokes public access to a file
- unshare revoke a user's access to a file
- unstar unstar files
- untrash restores files from trash to their original locations
- url returns the remote URL of each file
- version 0.3.9.1

drive <command> -h for subcommand help

## Step 2: (one time)

Create/find & "cd" to a directory where you have disk space and permissions (such as /gscratch/teamname/yournetid )

```
mkdir /gscratch/${SLURM_JOB_ACCOUNT}/${USER}
cd /gscratch/${SLURM_JOB_ACCOUNT}/${USER}
```

## Step 3: Set up your connection between google drive and your local directory:

```
[mbw@n2163 go]$ drive init
```

(follow directions to set up connection between the current directory and whichever google drive account you want to use)

then you should be able to run "drive" plus commands like push and pull, etc

You should be able to have multiple unix folders that are connected to different google drives...

heres what you do for a UW Google drive (personal or shared uwnetid based)

1) Get a browser ready on your desktop machine (could be a completely different computer than used for Hyak, buy you will enjoy being able to copy/paste a long link URL)

1.5) close completely chrome and open a fresh instance (not a fresh window - you want a browser not logged in to UW weblogin)

2) go to uwnetid.washington.edu and log in as the uwnetid whose google drive account you wish to use.

3) Now go back to hyak connection shell on build node. cd in to the directory you want to do this google drive sync with

4) run 'drive init'

5) Take the URL and paste it in to the chrome window where you are logged in already as the uwnetid you want

then the login should take you to the right place in the google world.

Whatever UWNETID your browser window where you paste the URL from hyak, that is the google account/drive you will be connecting to.

Once the connection is established, it is stored in .dotfiles in the directory that the go "drive" client can find an reference.



The "go" binary "drive" comes from the following github page:

<https://github.com/odeke-em/drive>

It was compiled in October 2017 by nsmack and placed in /sw/contrib/go

## Related articles

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