

Using One Drive on Linux

Setup One Drive

- 1. Start configuring OneDrive in RClone by running the config command.

```
# rclone config
```

- 2. You will be prompted with configuration options. Choose n to create a new remote.

```
No remotes found - make a new one
n) New remote
s) Set configuration password
q) Quit config
n/s/q> n
```

- 3. Enter for instance "UL-OneDrive" as the name for the remote.

```
name> UL-OneDrive
```

- 4. For storage type enter "onedrive".

```
Type of storage to configure.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
...
21 / Mega
    \ "mega"
22 / Microsoft Azure Blob Storage
    \ "azureblob"
23 / Microsoft OneDrive
    \ "onedrive"
24 / OpenDrive
    \ "opendrive"
25 / Openstack Swift (Rackspace Cloud Files, Memset Memstore, OVH)
    \ "swift"
...
Storage> onedrive
** See help for onedrive backend at: https://rclone.org/onedrive/ **
```

- 5. Leave client_id and client_secret empty. Press enter to leave the fields blank.

```
Microsoft App Client Id
Leave blank normally.
Enter a string value. Press Enter for the default ("").
client_id>
Microsoft App Client Secret
Leave blank normally.
Enter a string value. Press Enter for the default ("").
```

```
client_secret>
```

- 6. Do not go for advanced config, type n

```
Edit advanced config? (y/n)
y) Yes
n) No (default)
y/n> n
```

- 7. Press y to use auto configuration.

```
Remote config
Use auto config?
* Say Y if not sure
* Say N if you are working on a remote or headless machine
y) Yes (default)
n) No
y/n> y
```

- 8. A browser window will open to a Microsoft login screen. Login using your ULCN account information.
- 9. When prompted for config_type choose "onedrive", type 1.

```
Choose a number from below, or type in an existing value
1 / OneDrive Personal or Business
  \ "onedrive"
2 / Root Sharepoint site
  \ "sharepoint"
3 / Type in driveID
  \ "driveid"
4 / Type in SiteID
  \ "siteid"
5 / Search a Sharepoint site
  \ "search"
Your choice> 1
```

- 10. You'll be prompted to connect to the root of your OneDrive. Press y to continue.

```
Found 1 drives, please select the one you want to use:
0: OneDrive (business) id=b!9lLca7qW5Uqos5tnc3zl3xVQs7GKhd1Pi_6ugA5eVjVYitM-
xxxxxxxxxxxxxxxxxx
Chose drive to use:> 0
Found drive 'root' of type 'business', URL:
https://leidenuniv1-my.sharepoint.com/personal./deuler_vuw_leidenuniv_nl/Doc
uments
```

```
Is that okay?
y) Yes (default)
n) No
y/n> y
```

- 11. Press y to confirm that the remote is ok.

```

-----
[UL-OneDrive]
type = onedrive
token = {"access_token":"xxx...xxx"}
drive_id = b!9lLca7qW5Uqos5tnc3zl3xVQs7GKhd1Pi_6ugA5eVjVYitM-xxxxxxxxxxxxxx
drive_type = business
-----
y) Yes this is OK (default)
e) Edit this remote
d) Delete this remote
y/e/d> y

```

- 12. Press q to close the remote configuration procedure.

Current remotes:

```

Name                               Type
====                               =====
UL-OneDrive                        onedrive

e) Edit existing remote
n) New remote
d) Delete remote
r) Rename remote
c) Copy remote
s) Set configuration password
q) Quit config
e/n/d/r/c/s/q> q

```

- 13. Create a “OneDrive” directory in your home folder to mount the remote that you just created.

```
mkdir ~/OneDrive
```

Mount One Drive

Mount the remote onedrive by using the command:

```
rclone --vfs-cache-mode writes mount UL-OneDrive: ~/OneDrive &
```

And now the drive is mounted:

```

# df ~/OneDrive
Filesystem      1K-blocks  Used Available Use% Mounted on
UL-OneDrive:    1073741824 2952 1073738868   1% /home/deul/OneDrive

```

Unmount One Drive

To unmount the onedrive mount point we must use the fusermount command:

```
fusermount -u /home/deul/OneDrive
```

Now check if the mount point is still used or cascades down to the home drive:

```
df ~/OneDrive
Filesystem            1K-blocks      Used  Available Use% Mounted on
homeserver:/export/home 6390518784 4040379904 2028000256 67% /home
```

Indeed onedrive is not mounted on this mountpoint any more

Easy aliases

To make life a bit easier (after the configuration has been set up), you can of course set up some aliases in your .login (tcsh) or .bashrc (bash), e.g. For the bash shell:

```
alias mountonedrive='rclone --vfs-cache-mode writes mount UL-OneDrive:
$HOME/OneDrive &'
alias umountonedrive='fusermount -u $HOME/OneDrive'
```

For tcsh:

```
alias mountonedrive 'rclone --vfs-cache-mode writes mount UL-OneDrive:
$HOME/OneDrive &'
alias umountonedrive 'fusermount -u $HOME/OneDrive'
```

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