

# How to use rclone to mount OneDrive share in Ubuntu

General documentation

- <https://pegasus.vumc.org/ViewKnowledge.aspx?id=15297>
- <https://itsfoss.com/use-onedrive-linux-rclone/>

If rclone is not already installed, download .deb installer and install

Download

```
$ https://downloads.rclone.org/v1.58.1/rclone-v1.58.1-linux-amd64.deb
```

Install

```
$ sudo dpkg -i ~/Download/rclone-v1.58.1-linux-amd64.deb
```

Make a mount point for the OneDrive share. This can be any name you like, but if you use something different, make appropriate changes later in this script.

```
$ mkdir ~/OneDrive
```

Configure rclone. This is a complete terminal session and all of the input and output is shown. The user's input is in **red**.

```
$ rclone config
```

```
No remotes found, make a new one?
```

```
n) New remote
```

```
s) Set configuration password
```

```
q) Quit config
```

```
n/s/q> n
```

```
name> remote_vumc
```

```
Option Storage.
```

```
Type of storage to configure.
```

```
Choose a number from below, or type in your own value.
```

```
1 / 1Fichier
```

```
  \ (fichier)
```

```
2 / Akamai NetStorage
```

```
  \ (netstorage)
```

```
3 / Alias for an existing remote
```

```
  \ (alias)
```

```
4 / Amazon Drive
```

```
  \ (amazon cloud drive)
```

5 / Amazon S3 Compliant Storage Providers including AWS, Alibaba, Ceph, China Mobile, Digital Ocean, Dreamhost, IBM COS, Lyve Cloud, Minio, Netease, RackCorp, Scaleway, SeaweedFS, StackPath, Storj, Tencent COS and Wasabi  
  \ (s3)

6 / Backblaze B2  
  \ (b2)

7 / Better checksums for other remotes  
  \ (hasher)

8 / Box  
  \ (box)

9 / Cache a remote  
  \ (cache)

10 / Citrix Sharefile  
  \ (sharefile)

11 / Compress a remote  
  \ (compress)

12 / Dropbox  
  \ (dropbox)

13 / Encrypt/Decrypt a remote  
  \ (crypt)

14 / Enterprise File Fabric  
  \ (filefabric)

15 / FTP Connection  
  \ (ftp)

16 / Google Cloud Storage (this is not Google Drive)  
  \ (google cloud storage)

17 / Google Drive  
  \ (drive)

18 / Google Photos  
  \ (google photos)

19 / Hadoop distributed file system  
  \ (hdfs)

20 / Hubic  
  \ (hubic)

21 / In memory object storage system.  
  \ (memory)

22 / Jottacloud  
  \ (jottacloud)

23 / Koofr, Digi Storage and other Koofr-compatible storage providers  
  \ (koofr)

24 / Local Disk  
  \ (local)

25 / Mail.ru Cloud  
    \ (mailru)

26 / Mega  
    \ (mega)

27 / Microsoft Azure Blob Storage  
    \ (azureblob)

28 / Microsoft OneDrive  
    \ (onedrive)

29 / OpenDrive  
    \ (opendrive)

30 / OpenStack Swift (Rackspace Cloud Files, Memset Memstore, OVH)  
    \ (swift)

31 / Pcloud  
    \ (pcloud)

32 / Put.io  
    \ (putio)

33 / QingCloud Object Storage  
    \ (qingstor)

34 / SSH/SFTP Connection  
    \ (sftp)

35 / Sia Decentralized Cloud  
    \ (sia)

36 / Storj Decentralized Cloud Storage  
    \ (storj)

37 / Sugarsync  
    \ (sugarsync)

38 / Transparently chunk/split large files  
    \ (chunker)

39 / Union merges the contents of several upstream fs  
    \ (union)

40 / Uptobox  
    \ (uptobox)

41 / Webdav  
    \ (webdav)

42 / Yandex Disk  
    \ (yandex)

43 / Zoho  
    \ (zoho)

44 / http Connection  
    \ (http)

45 / premiumize.me  
    \ (premiumizeme)

```
46 / seafile
    \ (seafile)
Storage> onedrive
Option client_id.
OAuth Client Id.
Leave blank normally.
Enter a value. Press Enter to leave empty.
client_id>
Option client_secret.
OAuth Client Secret.
Leave blank normally.
Enter a value. Press Enter to leave empty.
client_secret>
Option region.
Choose national cloud region for OneDrive.
Choose a number from below, or type in your own string value.
Press Enter for the default (global).
 1 / Microsoft Cloud Global
   \ (global)
 2 / Microsoft Cloud for US Government
   \ (us)
 3 / Microsoft Cloud Germany
   \ (de)
 4 / Azure and Office 365 operated by 21Vianet in China
   \ (cn)
region> global
Edit advanced config?
y) Yes
n) No (default)
y/n> n
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
2022/06/27 13:52:14 NOTICE: If your browser doesn't open automatically go to
the following link: http://127.0.0.1:53682/auth?state=eU6tgGOGfApvrdlZWvWGxQ
2022/06/27 13:52:14 NOTICE: Log in and authorize rclone for access
2022/06/27 13:52:14 NOTICE: Waiting for code...
2022/06/27 13:52:16 NOTICE: Got code
```

```
{ "access_token": "eyJ0eXAiOiJKV1QiLCJub25jZSI6ImVFM3E0Q0wzbXI2SDR5eUs4S2tmMXZrVm  
pvY3dZbUc5alVjRW5ORFQzY2MiLCJhbGciOiJSUzI1NiIsIng1dCI6IjJaUXBKM1VwYmpBWVhZR2FYR  
UpsOGxWMFRPSSIsImtpZCI6IjJaUXBKM1VwYmpBWVhZR2FYRUpsOGxWMFRPSSJ9.eyJhdWQiOiIwMDA  
wMDAwMyOwMDAwLTAwMDAtYzAwMCOwMDAwMDAwMDAwMDAiLCJpc3MiOiJodHRwciovL3N0cy53aW5kb3  
dzLm5ldC9lZjU3NTAzMC0xNDIOLTRlZDgtYjgzYy0xMmM1MzNkODc5YWlvIiwiaWF0IjoxNjU2MzU1N  
jM2LCJuYmYiOiJE2NTYzNTU2MzYsImV4cCI6MTY1NjM2MTA4MSwiYWNjdCI6MCwiYWNyIjoimSIsImFp  
byI6IkUyWmdZREQ1SGpmUl d1UEZpVWwxKqJjVjUGNQOUsyL2ZNTDBycmdRS mJ2Tm4wajdxUGd5MEIiLCJ  
hbXII0lsicHdkIl0sImFwcF9kaXNwbGF5bmFtZSI6InJjbG9uZSIsImFwcGlKIjo iYjE1NjY1ZDktZW  
RhNi00MDkyLTg1MzktMGVlYzM3NmFmZDU5IiwiaXBwaWRhY3IiOiIxIiwiaWF0IjE1NjY1ZDktZW
```

HvbtbWVyIiwiZ2l2ZW5fbmFtZSI6IlldhbHRvbiIsImlkdhHwIjojdXNlciIsImlwYWRkcii6IjE2MC44MjkuMjUwLjIzNiIsIm5hbWUiOiJQbHVtbWVyLCBEYWxlIiwib2lkIjoiZDQxYjA3MzUtZjk5My00NDFiLTg4Y2ItMjJmNzY4Y2ZlMTA1Iiwib25wcmVtX3NpZCI6IlMtMS01LTIxLTI5MDA5ODc3MzAtMTcwNjU3Mzg4Ny0zMjc5NTkyNtk1LTcwMDciLCJwbGF0ZiI6IjgiLCJwdWlkIjoiMTAwMzNGRkY5REY4MUYwQSIIsInJoIjoiMC5BVkVBTUZCWDd5UVUyRTY0UEJMRk05aDVxd01BQUFBQUFBQUF3QUFBQUFBQUFBQ1JBSTguIiwic2NwIjoiRmlsZXMuUmVhZCBGaWxlcyc5SZWFkLkFsbCBGaWxlcyc5SZWFkV3JpdGUgRmlsZXMuUmVhZGFyaXRlLkFsbCBTaXRlcyc5SZWFkLkFsbCBwcm9maWx1IG9wZW5pZCB1bWVpbCIsInNpZ25pbl9zdGF0ZSI6WyJpbmtub3dubnR3ayIsImttc2kiXSwic3ViIjoiR1lBY3ZiIenhzTTJibFJYYldDeURYy3BEQ2hrQnYwajJvNkh0czFvOTRzbyIsInRlbnFudF9yZWdpb25fc2NvcGUiOiJ0QSIIsInRpZCI6ImVhNTc1MDMwLWTEOMjQtNGVkOC1iODNjLTEyYzUzM2Q4NzlhYiIsInVuaXF1ZV9uYW11IjoiZGFsZS5wbHVtbWVyQHZ1bWMub3JnIiwidXBuIjoiZGFsZS5wbHVtbWVyQHZ1bWMub3JnIiwidXRpIjoiVHVhZGdGEtQnVYMHlySWRDVORuSEFBQSIsInZlciI6IjEuMCIIsIndpZHMlOiIsiYjc5ZmJmNGQtM2VmOS00Njg5LTgxNDMtNzZiMTk0ZTg1NTA5Il0sInhtc19zdCI6eyJzdWIiOiIwV2d0MHNKZjBnd2pzQzR1R0taeWwtTmRqUnZ4TG9DQjZUTDFtblFZbkQ0In0sInhtc190Y2R0IjoxNDY3OTkyMzcwfwQ.nDY8kWKEUXkW9gR9jeAGT2CbZ4MV1VvP9oJmhXV5jypPhFmk37rk71ue\_IHEwaDA70ggdF17HCTc8Y19tH5UMteUuT8mtde3\_hndtfQyi9o80ZhvUgSHz0pg3cG0JWG7tbGJyyXfRb8fss6a7JFDh927\_I18Bg9VncNQley5UsfowHUv-DB577GI6-

y/e/d> **y**

Current remotes:

Name	Type
====	====
remote_vumc	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**

Map the OneDrive share

```
$ /usr/bin/rclone --vfs-cache-mode writes mount remote_vumc: ~/OneDrive/ &
```

See if it worked

```
$ ls -la OneDrive/
```

This mount will remain active as long as you keep this terminal running. If you'd like to mount the share when the system is booted, add this command to your crontab. This is all one line.

```
#@reboot ( /usr/bin/rclone --vfs-cache-mode writes mount remote_vumc:  
~/OneDrive/ & )&
```