Mount Sharepoint

Set up an MS App password for rclone on https://mysignins.microsoft.com/security-info

```
sudo apt-get install rclone

mkdir -p ~/.config/rclone/
vi ~/.config/rclone/rclone.conf
```

~/.config/rclone/rclone.conf

```
[whatevername]
type = webdav
url = https://domainname.sharepoint.com/sites/sitename
vendor = sharepoint
user = firstname.lastname@example.com
pass = xxxx
```

```
rclone config
#edit existing site and add the app password
```

Mount using the following, where "whatevername" is the name of the sharepoint site and "~/sharepoint/whatevername" is the desired mount point:

```
rclone --vfs-cache-mode writes mount whatevername: ~/sharepoint/whatevername
```

If this works, run it in daemon mode:

```
rclone --vfs-cache-mode writes mount whatevername: ~/sharepoint/whatevername
--daemon
```

To stop the mount, use:

```
fusermount -u /path/to/local/mount
#or
fusermount -uz /path/to/local/mount
```

Use in fstab

to use in fstab, create wrapper using:

```
sudo ln -s /usr/bin/rclone /sbin/mount.rclone
```

then it can be used in fstab like:

```
whatevername: /path/to/mount/point rclone user,rw,noauto,nofail,_netdev,x-
systemd.automount,args2env,vfs_cache_mode=writes,rc.config=/etc/rclone.conf,
cache_dir=/var/cache/rclone 0 0
```

or better use rclonefspy script
https://forum.rclone.org/t/auto-mount-from-fstab-entry-with-systemd-options/23897

/usr/local/bin/rclonefspy

```python
#!/usr/bin/env python3
from os import environ
from time import sleep
import sys
from subprocess import check_call, check_output,
CalledProcessError,TimeoutExpired, Popen, PIPE

def write_to_journal(string):
    check_output(['systemd-cat'], input=string.encode('utf-8'))

write_to_journal('rclone-script started')

# Save passed arguments
remote_mount = sys.argv[1]
local_mount = sys.argv[2]
sys_args = sys.argv[4].split(',')

# Must add path to environment in order for rclone mount to work
env = environ.copy()
output_raw = check_output(['whereis', 'rclone'],)
##path = output_raw.decode('utf-8').split('
')[1].removesuffix('/rclone')
path = "/usr/bin"
env['PATH'] = path

# If path extraction does not work enter desired path here
# env['PATH'] = '/usr/bin'

options = []
discarded_options = []

# Load options for rclone mount to consume
for arg in sys_args:
    if not arg.startswith('rc.'):
        discarded_options.append(arg)
        continue
    options.append(f'--{arg[3:]}')

write_to_journal(f'rclone-script options: {options}')
write_to_journal(f'rclone-script discarded options:
{discarded_options}')
```

```python
    # Mount folder, if this doesn't work try with full path for rclone
output = Popen(
    ['rclone', 'mount', *options, remote_mount, local_mount ], env=env,
    stdout=PIPE, stderr=PIPE, close_fds=True, shell=False,
)
try:
    output.wait(1)
except TimeoutExpired as e:
    # Must wait for mount to be seen, in order for systemd not to
complain
    write_to_journal('rclone-script rclone mount success')
    for tries in range(1, 20):
        try:
            check_call(['mountpoint', local_mount], env=env)
            write_to_journal(f'rclone-script mount found after {tries}
tries')
            break
        except CalledProcessError:
            write_to_journal('rclone-script mount not found, sleeping')
            sleep(0.1)
    else:
        write_to_journal('rclone-script mount not found, not looking
anymore')
        sys.exit(1)

    sys.exit(0)
else:
    write_to_journal(f'rclone-script mount failed. ErrMsg:
{output.stderr.read().decode("utf-8")}')
    sys.exit(1)
```

```
sudo chmod 755 /usr/local/bin/rclonefspy
```

Then use

```
gdrive: /mnt/gdrive fuse.rclonefspy user,noauto,x-
systemd.automount,_netdev,x-systemd.mount-timeout=30,x-systemd.idle-
timeout=10min,rc.allow-other,rc.fast-list,rc.drive-export-
formats=.link.html,rc.config=/home/user/.config/rclone/rclone.conf 0 0
```

For troubleshooting use:

```
journalctl -b | grep rclone
```

systemd service

https://gist.github.com/kabili207/2cd2d637e5c7617411a666d8d7e97101

rclone@.service

```
# User service for Rclone mounting
#
# Place in ~/.config/systemd/user/
# File must include the '@' (ex rclone@.service)
# As your normal user, run
#   systemctl --user daemon-reload
# You can now start/enable each remote by using rclone@<remote>
#   systemctl --user enable rclone@dropbox
#   systemctl --user start rclone@dropbox

[Unit]
Description=rclone: Remote FUSE filesystem for cloud storage config %i
Documentation=man:rclone(1)
After=network-online.target
Wants=network-online.target
AssertPathIsDirectory=%h/mnt/%i

[Service]
Type=notify
ExecStart= \
  /usr/bin/rclone mount \
    --config=%h/.config/rclone/rclone.conf \
    --fast-list \
    --vfs-cache-mode writes \
    --vfs-cache-max-size 100M \
    --log-level INFO \
    --log-file /tmp/rclone-%i.log \
    --umask 022 \
    --allow-other \
    %i: %h/mnt/%i
ExecStop=/bin/fusermount -u %h/mnt/%i

[Install]
WantedBy=default.target
```

WebDAV2 process

#https://shui.azurewebsites.net/2018/01/13/mount-onedrive-for-business-on-headless-linux-vps-through-webdav/

```
sudo apt-get install -y davfs2
#unprivileged users: yes
sudo chmod 777 /etc/davfs2/davfs2.conf
echo "use_locks 0" >> /etc/davfs2/davfs2.conf

wget
https://raw.githubusercontent.com/yulahuyed/test/master/get-sharepoint-auth-
cookie.py

python get-sharepoint-auth-cookie.py https://SHAREPOINTSITE USERNAME
PASSWORD > cookie.txt

sed -i "s/ //g" cookie.txt
COOKIE=$(cat cookie.txt)
sudo chmod 777 /etc/davfs2/davfs2.conf
for MPATH in {Funds/Funds,IT/IT,Research/Research,SalesSP/Sales}
do
  echo "[${MPATH}]" >> /etc/davfs2/davfs2.conf
  echo "add_header Cookie ${COOKIE}" >> /etc/davfs2/davfs2.conf
  echo "" >> /etc/davfs2/davfs2.conf
done

for MPATH in {Funds/Funds,IT/IT,Research/Research,SalesSP/Sales};
do
  echo "https://SITENAME.sharepoint.com/sites/${MPATH} USERNAME PASSWORD" >>
/etc/davfs2/secrets
done

sudo chmod 755 /etc/davfs2/davfs2.conf

sudo usermod -a -G davfs2 $USER

#apply the new group in the shell
su - $USER

for PATH in {funds,it,research,sales};
do
  mkdir -p ~/sharepoint/SITE-${PATH}
  mount ~/sharepoint/SITE-${PATH}/
done;
```

The cookie will become invalid after about 3 weeks of inactivity.

fstab entry example

```
https://SITENAME.sharepoint.com/sites/Amati/Amati
/home/USER/sharepoint/SITE-amati davfs users,rw,_netdev 0 0
```

https://wiki.archlinux.org/title/Davfs2

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