

Rclone Mount using Systemd

This guide is for advanced users only and it serves as a guide for you to use rclone. The systemd files here are the recommended settings for our slots and will subject to change whenever there are new configurations that are appropriate for the slots. Furthermore, Ultra.cc is not responsible for any data loss or application errors due to this setup should you proceed and will not provide official support for it due to the large volume of variables and different configurations possible with rclone. You may visit the community discord server for help.

Please make yourself aware of the Ultra.cc [Fair Usage Policy](#). It is very important *not* to mount your Cloud storage to any of the premade folders. Do *not* download directly to a rclone mount from a torrent or nzbget client. Both will create massive instability for both you and everyone else on your server. *Always* follow the documentation and create a new folder for mounting. It is *your* responsibility to ensure usage is within acceptable limits.

Please do not mount to any of the default directories such as:

downloads

files

media

bin

.apps

.config

www

/homexx/username/

or any pre-created directory found on your Ultra.cc Slot

Is this method of rclone mounting suitable for your use case?

This method is not suitable for you if you wish to upload/write data to your rclone mount.

- Follow this method only if you plan to read from your rclone mount and not upload/write any data to it periodically.
- In the case that you wish to upload data to your cloud drive periodically, please follow [Rclone VFS and MergerFS Setup](#).

Overview

Rclone's Mount allows you to mount any of your cloud storage accounts as part of your slot's file system using FUSE. In this guide, we will teach you how to run a rclone mount using systemd. Take note that this guide is setup using Google Drive as the cloud storage provider used. Should you use any other cloud storage providers, you may need consult rclone documentation for the appropriate flags for your setup.

There are many ways to mount rclone. You can run the rclone Mount using the `screen` utility, create a script for running rclone Mount, and checking if the command is still alive, using the `--daemon` flag, just to mention a few.

We recommend using systemd for several reasons:

- Easy to set up and configure
- Restarts rclone Mount automatically when there's a server restart or error
- You can manually restart the service when there're problems.

rclone mount with no mergerfs

If you don't need to upload files to your mount, follow this guide.

Should you need to upload files or you're planning an automated setup involving your cloud storage, we recommend using [Rclone VFS and MergerFS Setup](#) instead.

Preparation

- Login to your service via SSH.
- Ensure Rclone is installed following [Rclone Installation](#) Mounting will not work without this.
- Then, create the mount and temp folder
- For this guide, we'll be making a folder named Mount. So we will run `mkdir -p ~/Stuff/Mount && mkdir ~/.tmp-rclone`

```
kbguides@lw902: ~$ mkdir -p ~/Stuff/Mount && mkdir ~/.tmp-rclone
kbguides@lw902: ~$
```

- Next, create a folder named `scripts`. This is where you'll find logs of the rclone mounts should there be any problems.

```
kbguides@lw902: ~$ mkdir ~/scripts
kbguides@lw902: ~$
```

- Confirm your remote name by running `rclone listremotes` and take note of the name you've set.

```
$ @lw902: ~$ rclone listremotes
Gsuite:
```

Downloading Rclone Service File

- Choose and run the following command below
- There are 2 systemd files listed here. You have to choose either **one** of these files.
 - The first one should work on most remotes supported by rclone.
 - The second one is specific for Google Drive that is optimized for streaming.

Rclone Mount for Most Remotes

```
wget -P ~/.config/systemd/user/ https://scripts.ultra.cc/main/MergerFS-
Rclone/Service%20Files/rclone-normal.service && nano ~/.config/systemd/user/rclone-
normal.service
```

Google Drive Rclone Mount for Media Streaming

```
wget -P ~/.config/systemd/user/ https://scripts.ultra.cc/main/MergerFS-
Rclone/Service%20Files/rclone-vfs.service && nano ~/.config/systemd/user/rclone-vfs.service
```

Editing your service file

- After you run the command, a nano text window appears. In this example service file, we'll be using Google Drive Rclone Mount for Plex Streaming.
- Replace `remote:` to the remote name you set previously from [the previous guide](#).
- You may also add or edit some rclone flags here if you wish.
- Then save it by doing **CTRL + O**, press **ENTER** then exit nano by doing **CTRL + X**.


Example rclone-normal.service

```
[Unit]
Description=RClone Mount Service
Wants=network-online.target
After=network-online.target

[Service]
Type=notify
KillMode=none
Environment=GOMAXPROCS=2
ExecStart=%h/bin/rclone mount remote: %h/Stuff/Mount \
  --config %h/.config/rclone/rclone.conf \
  --use-mmap

StandardOutput=file:%h/scripts/rclone_mount.log
ExecStop=/bin/fusermount -uz %h/Stuff/Mount
Restart=on-failure

[Install]
WantedBy=default.target
```



Example rclone-vfs.service

```
GNU nano 3.2
[Unit]
Description=RClone VFS Service
Wants=network-online.target
After=network-online.target


[Service]
Type=notify
KillMode=none
Environment=GOMAXPROCS=2

ExecStart=%h/bin/rclone mount remote: %h/Stuff/Mount \
--config %h/.config/rclone/rclone.conf \
--use-mmap \
--dir-cache-time 1000h \
--poll-interval=15s \
--vfs-cache-mode writes \
--tpslimit 10

StandardOutput=file:%h/scripts/rclone_vfs_mount.log
ExecStop=/bin/fusermount -uz %h/Stuff/Mount
Restart=on-failure

[Install]
WantedBy=default.target
```

Your remote name:



Systemd Commands

{mount-name} refers to the service of your choice. Either rclone-normal.service or rclone-vfs.service

Enabling and starting Rclone mount: `systemctl --user enable --now {mount-name}.service`

Restart Rclone Mount: `systemctl --user restart {mount-name}.service`

Stop Rclone Mount: `systemctl --user stop {mount-name}.service`

Stop and disable Rclone mount: `systemctl --user disable --now {mount-name}.service` (Remove service file after)

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