

New backend: Infomaniak kDrive #8941

Open

Tofee wants to merge 16 commits into rclone:master from Tofee:tofee/kdrive

Conversation 15

Commits 16

Checks 0

Files changed 12

+1,668

Tofee commented on Nov 3, 2025 • edited

...

What is the purpose of this change?

Propose a backend implementation for Infomaniak's kDrive storage

A new "kdrive" backend is added. The code was initially copied from the "pcloud" backend, and then modified to match the kDrive API.

Was the change discussed in an issue or in the forum before?

A request for this backend appeared some time ago, here: [#8456](#)

This is my first contribution to rclone, and my first attempt at the Go language, so while I'm trying to follow the good practices, be aware there might be many mistakes in this new backend... This is still a WIP, and this PR is intended to start the convergence on the code of the backend.

The documentation for the backend is still missing; I'll add it soon.

Checklist

☒ I have read the [contribution guidelines](#).

☒ I have added tests for all changes in this PR if appropriate.

☒ I have added documentation for the changes if appropriate.

☒ All commit messages are in [house style](#).

☒ I'm done, this Pull Request is ready for review :-)

5

1

Reviewers

1 more reviewer

Gurvan89

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

3 participants

Tofee force-pushed the tofee/kdrive branch from 0a63bbf to 8322b21 3 months ago

Compare

Tofee changed the title [WIP] Add kDrive backend

New backend: Infomaniak kDrive on Nov 5, 2025

Tofee commented on Dec 21, 2025

Author

...

It's been several weeks since this my last commit, is there anything else I can add to improve this PR?

Gurvan89 commented last month

...

Hi,
I'm starting to test your code, as I think adding this feature is a really good idea.
This is my first time using GoLand, so I'm not very familiar with it yet.
However, I was able to run the project locally and connect to my kDrive.

When I have more time, I'll go deeper into the tests and the code review.
I'm not an rclone specialist, but I'm happy to help if I can.
Gurvan

Tofee added 12 commits last month

kdrive: initial commit for new backend

a5e9b0d

...

kdrive: Filename encoding fixes

425d90e

kdrive: fix some usecases

3491cb0

kdrive: remove unsupported OpenWriterAt

a7db97d

kdrive: disable broken features and fix OpenRange

de3f254

kdrive: all backend tests are now OK

c39c949

kdrive: cleanup

d7c3392

kdrive: add backend to testall config.yaml

a4eb727

kdrive: add documentation

fc7f576

kdrive: cleanup unused oauth

9f60f03

kdrive: fix remaining tests

5effd5a

kdrive: fix lint errors

2884c5e

Tofee force-pushed the tofee/kdrive branch from bbd5c59 to 2884c5e last month

Compare

Gurvan89 commented last month • edited

...

Hi @Tofee,
First of all, thanks for this code.

I have been running further tests today. **I pulled your last rebase before.**

I'm encountering issues specifically when using the **root_folder_id** parameter.
Everything works as expected when I run tests without this configuration (using the kDrive root). However, as soon as I specify a root_folder_id, I get a recurring error during synchronization.

Command used:
./rclone --kdrive-root-folder-id 1234 sync ./src Infomaniak:dest -v

Error received:

```
2026/01/09 19:12:34 ERROR : Private/myfolder/dest:
2026/01/09 19:12:38 INFO : test.txt: Copied (new)
2026/01/09 19:12:38 INFO :
Transferred:          9 B / 9 B, 100%, 2 B/s, ETA:
Checks:             0 / 0, -, Listed 2
Transferred:         1 / 1, 100%
Elapsed time:        4.3s
```


In addition to this error, the sync command does not behave as expected. It seems that when a root folder ID is defined, rclone fails to correctly map the relative paths, leading it to ignore files or misinterpret the directory structure (as shown by the 'Entry doesn't belong' error which suggests a path resolution conflict).

What I have identified as unexpected behaviour:

- The files are correctly copied or updated but in between the files are moved to the bin of kdrive
- If I remove a file from the source, then it is not removed to the destination (even if the file goes to the bin)

Let me know if it is not clear enough.

I will continue to go deeper later.
Gurvan

Tofee commented last month

Author

...

Thanks @Gurvan89 for this feedback, I will have a closer look at what goes wrong with this root folder id option enabled.

Tofee added 2 commits last month

kdrive: fix path of items when using root_id folder

e928f83

kdrive: fix hash update after content change

3182e97

Tofee commented last month

Author

...

@Gurvan89 Can you please retry with these two fixes ? I can't reproduce the issue anymore on my side.

Gurvan89 commented last month

...

Hi @Tofee,

Thanks for the fix. I tried it and it seems to work correctly.

I didn't have time yet to go deeper in the other tests.

Gurvan

Gurvan89 reviewed last month

View reviewed changes

Gurvan89 left a comment

...

I added some comment about the docs.

I think you should also add the link of the documentation in the main readme file.

docs/content/kdrive.md

Outdated

Show resolved

docs/content/kdrive.md

Show resolved

kdrive: docs: fix incorrect names

e359d29

Tofee force-pushed the tofee/kdrive branch from d827ca3 to e359d29 last month

Compare

Tofee commented last month

Author

...

I think you should also add the link of the documentation in the main readme file.

There is already a link to the documentation in the main readme file, it's handled via bin/make_manual.py and docs/content/_index.md.

Gurvan89 commented last month

...

Hi @Tofee,
Thanks for the modification.
I was meaning in this readme file in the root directory: <https://github.com/Tofee/rclone/blob/tofee/kdrive/README.md>

kdrive: add reference in main README file

ac6c0dc

Gurvan89 commented 3 weeks ago • edited

...

My tests status

Command	status
./rclone test makefiles Infomaniak:	[x]
./rclone test memory Infomaniak:	[x]
./rclone test speed Infomaniak:	[x]
./rclone test changenotify Infomaniak:	Error: poll-interval is not supported by this remote
./rclone purge Infomaniak:test	[x]
./rclone copy ./data/ Infomaniak:/test/	[x]
./rclone sync ./data/ Infomaniak:/test/	[x]
./rclone bisync --resync ./data/ Infomaniak:/test/	[x] I had to add the -resync other wise I have this error: Bisync critical error: cannot find prior Path1 or Path2 listings, likely due to critical error on prior run
./rclone check ./data/ Infomaniak:/test/	[x]
./rclone ls Infomaniak:test	[x]
./rclone mkdir Infomaniak:test	[x]
./rclone cat Infomaniak:test/test.txt	[x]
./rclone lsd Infomaniak:	[x]

Open

New backend: Infomaniak kDrive #8941

Tofee wants to merge 16 commits into [rclone:master](#) from [Tofee:tofee/kdrive](#)

<pre>./rclone tree Infomaniak:test/</pre>	[x]
<pre>./rclone size Infomaniak:test/</pre>	[x]
<pre>./rclone serve http Infomaniak:test/</pre>	[x]
<pre>./rclone deletetefile Infomaniak:test/test.txt</pre>	[x]

I have run as many tests as possible, and everything appears to be working correctly so far.
I tried each command with and without the root_folder_id and I have the same result.
Please let me know if there is anything else I can do to assist with the validation of this merge request.



Tofee commented 3 weeks ago

Author



Thanks [@Gurvan89](#) for the tests!

[@ncw](#) is there something else I should do to validate this PR ?

4



matthieu-mabillard commented 47 minutes ago



Hello 🙋 ,

Thank you very much for your upstream contribution and for the time and effort you put into it. We really appreciate it!

To give you some context: at Infomaniak, we've recently decided to officially develop our own kDrive backend implementation internally. We're working on a different implementation with slightly different constraints and architectural choices (for example, using the listing/full route instead of a recursive approach).

That said, we do not plan to close your PR. There are definitely interesting and valuable ideas in your contribution, and we'll take the time to review it properly and see how we can adapt or build upon it within our current direction.

Thanks again for your involvement and for contributing upstream. It's genuinely appreciated.

Sign up for free

to join this conversation on GitHub. Already have an account? [Sign in to comment](#)

