

Citrix ShareFile

[Citrix ShareFile](#) is a secure file sharing and transfer service aimed as business.

The initial setup for Citrix ShareFile involves getting a token from Citrix ShareFile which you can in your browser. `rclone config` walks you through it.

Here is an example of how to make a remote called `remote`. First run:

```
rclone config
```

This will guide you through an interactive setup process:

```

No remotes found - make a new one
n) New remote
s) Set configuration password
q) Quit config
n/s/q> n
name> remote
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
XX / Citrix Sharefile
  \ "sharefile"
Storage> sharefile
** See help for sharefile backend at: https://rclone.org/sharefile/ **

ID of the root folder

Leave blank to access "Personal Folders". You can use one of the
standard values here or any folder ID (long hex number ID).
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
 1 / Access the Personal Folders. (Default)
  \ ""
 2 / Access the Favorites folder.
  \ "favorites"
 3 / Access all the shared folders.
  \ "allshared"
 4 / Access all the individual connectors.
  \ "connectors"
 5 / Access the home, favorites, and shared folders as well as the connectors.
  \ "top"
root_folder_id>
Edit advanced config? (y/n)
y) Yes
n) No
y/n> n
Remote config
Use auto config?
  * Say Y if not sure
  * Say N if you are working on a remote or headless machine
y) Yes
n) No
y/n> y
If your browser doesn't open automatically go to the following link: http://127.0.0.1:53682/auth?state=XXX
Log in and authorize rclone for access
Waiting for code...
Got code
-----
[remote]
type = sharefile
endpoint = https://XXX.sharefile.com
token = {"access_token":"XXX","token_type":"bearer","refresh_token":"XXX","expiry":"2019-09-30T19:41:45.878561877+01:00"}
-----
y) Yes this is OK
e) Edit this remote
d) Delete this remote
y/e/d> y

```

See the [remote setup docs](#) for how to set it up on a machine with no Internet browser available.

Note that rclone runs a webserver on your local machine to collect the token as returned from Citrix ShareFile. This only runs from the moment it opens your browser to the moment you get back the verification code. This is on <http://127.0.0.1:53682/> and this it may require you to unblock it temporarily if you are running a host firewall.

Once configured you can then use **rc1one** like this,

List directories in top level of your ShareFile

```
rclone lsd remote:
```

List all the files in your ShareFile

```
rclone ls remote:
```

To copy a local directory to an ShareFile directory called backup

```
rclone copy /home/source remote:backup
```

Paths may be as deep as required, e.g. `remote:directory/subdirectory`.

Modified time and hashes

ShareFile allows modification times to be set on objects accurate to 1 second. These will be used to detect whether objects need syncing or not.

ShareFile supports MD5 type hashes, so you can use the `--checksum` flag.

Transfers

For files above 128MB rclone will use a chunked transfer. Rclone will upload up to `--transfers` chunks at the same time (shared among all the multipart uploads). Chunks are buffered in memory and are normally 64MB so increasing `--transfers` will increase memory use.

Limitations

Note that ShareFile is case insensitive so you can't have a file called "Hello.doc" and one called "hello.doc".

ShareFile only supports filenames up to 256 characters in length.

Restricted filename characters

In addition to the [default restricted characters set](#) the following characters are also replaced:

Character	Value	Replacement
\	0x5C	\
*	0x2A	*
<	0x3C	<
>	0x3E	>
?	0x3F	?
:	0x3A	:
	0x7C	
"	0x22	"

File names can also not start or end with the following characters. These only get replaced if they are the first or last character in the name:

Character	Value	Replacement
SP	0x20	SP
.	0x2E	.

Invalid UTF-8 bytes will also be [replaced](#), as they can't be used in JSON strings.

Standard Options

Here are the standard options specific to sharefile (Citrix Sharefile).

--sharefile-root-folder-id

ID of the root folder

Leave blank to access "Personal Folders". You can use one of the standard values here or any folder ID (long hex number ID).

- Config: root_folder_id
- Env Var: RCLONE_SHAREFILE_ROOT_FOLDER_ID
- Type: string
- Default: ""
- Examples:
 - ""
 - Access the Personal Folders. (Default)
 - "favorites"
 - Access the Favorites folder.
 - "allshared"
 - Access all the shared folders.
 - "connectors"
 - Access all the individual connectors.
 - "top"
 - Access the home, favorites, and shared folders as well as the connectors.

Advanced Options

Here are the advanced options specific to sharefile (Citrix Sharefile).

--sharefile-upload-cutoff

Cutoff for switching to multipart upload.

- Config: upload_cutoff
- Env Var: RCLONE_SHAREFILE_UPLOAD_CUTOFF
- Type: SizeSuffix
- Default: 128M

--sharefile-chunk-size

Upload chunk size. Must a power of 2 >= 256k.

Making this larger will improve performance, but note that each chunk is buffered in memory one per transfer.

Reducing this will reduce memory usage but decrease performance.

- Config: chunk_size
- Env Var: RCLONE_SHAREFILE_CHUNK_SIZE
- Type: SizeSuffix
- Default: 64M

--sharefile-endpoint

Endpoint for API calls.

This is usually auto discovered as part of the oauth process, but can be set manually to something like: <https://XXX.sharefile.com>

- Config: endpoint
- Env Var: RCLONE_SHAREFILE_ENDPOINT
- Type: string
- Default: ""

--sharefile-encoding

This sets the encoding for the backend.

See: the [encoding section in the overview](#) for more info.

- Config: encoding
- Env Var: RCLONE_SHAREFILE_ENCODING
- Type: MultiEncoder

- Default:
Slash,LtGt,DoubleQuote,Colon,Question,Asterisk,Pipe,BackSlash,Ctl,LeftSpace,LeftPeriod,RightSpace,RightPeriod,InvalidUtf8,Dot

Limitations

`rcclone about` is not supported by the Citrix ShareFile backend. Backends without this capability cannot determine free space for an rclone mount or use policy `mfs` (most free space) as a member of an rclone union remote.