

## Enterprise File Fabric

This backend supports [Storage Made Easy's Enterprise File Fabric™](#) which provides a software solution to integrate and unify File and Object Storage accessible through a global file system.

The initial setup for the Enterprise File Fabric backend involves getting a token from the the Enterprise File Fabric which you need to do 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
[snip]
XX / Enterprise File Fabric
   \ "filefabric"
[snip]
Storage> filefabric
** See help for filefabric backend at: https://rclone.org/filefabric/ **
```

```
URL of the Enterprise File Fabric to connect to
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
1 / Storage Made Easy US
   \ "https://storagemadeeasy.com"
2 / Storage Made Easy EU
   \ "https://eu.storagemadeeasy.com"
3 / Connect to your Enterprise File Fabric
   \ "https://yourfabric.smestorage.com"
url> https://yourfabric.smestorage.com/
ID of the root folder
Leave blank normally.
```

Fill in to make rclone start with directory of a given ID.

```
Enter a string value. Press Enter for the default ("").
root_folder_id>
Permanent Authentication Token
```

A Permanent Authentication Token can be created in the Enterprise File Fabric, on the users Dashboard under Security, there is an entry you'll see called "My Authentication Tokens". Click the Manage button to create one.

These tokens are normally valid for several years.

For more info see: <https://docs.storagemadeeasy.com/organisationcloud/api-tokens>

```
Enter a string value. Press Enter for the default ("").
permanent_token> xxxxxxxxxxxxxxxx-xxxxxxxxxxxxxxxxxxxx
Edit advanced config? (y/n)
y) Yes
n) No (default)
y/n> n
Remote config
```

```
-----  
[remote]  
type = filefabric  
url = https://yourfabric.smestorage.com/  
permanent_token = xxxxxxxxxxxxxxxx-xxxxxxxxxxxxxxxxxx  
-----  
y) Yes this is OK (default)  
e) Edit this remote  
d) Delete this remote  
y/e/d> y
```

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

List directories in top level of your Enterprise File Fabric

```
rclone ls remote:
```

List all the files in your Enterprise File Fabric

```
rclone ls remote:
```

To copy a local directory to an Enterprise File Fabric directory called backup

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

## Modified time and hashes

The Enterprise File Fabric allows modification times to be set on files accurate to 1 second. These will be used to detect whether objects need syncing or not.

The Enterprise File Fabric does not support any data hashes at this time.

## Restricted filename characters

The [default restricted characters set](#) will be replaced.

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

## Empty files

Empty files aren't supported by the Enterprise File Fabric. Rclone will therefore upload an empty file as a single space with a mime type of **application/vnd.rclone.empty.file** and files with that mime type are treated as empty.

## Root folder ID

You can set the `root_folder_id` for rclone. This is the directory (identified by its `Folder ID`) that rclone considers to be the root of your Enterprise File Fabric.

Normally you will leave this blank and rclone will determine the correct root to use itself.

However you can set this to restrict rclone to a specific folder hierarchy.

In order to do this you will have to find the `Folder ID` of the directory you wish rclone to display. These aren't displayed in the web interface, but you can use `rclone lsf` to find them, for example

```
$ rclone lsf --dirs-only -Fip --csv filefabric:
120673758,Burnt PDFs/
120673759,My Quick Uploads/
120673755,My Syncs/
120673756,My backups/
120673757,My contacts/
120673761,S3 Storage/
```

The ID for "S3 Storage" would be `120673761`.

## Standard Options

Here are the standard options specific to filefabric (Enterprise File Fabric).

### `--filefabric-url`

URL of the Enterprise File Fabric to connect to

- Config: url
- Env Var: `RCLONE_FILEFABRIC_URL`
- Type: string
- Default: ""
- Examples:
  - `"https://storagemadeeasy.com"`
    - Storage Made Easy US
  - `"https://eu.storagemadeeasy.com"`
    - Storage Made Easy EU
  - `"https://yourfabric.smestorage.com"`
    - Connect to your Enterprise File Fabric

### `--filefabric-root-folder-id`

ID of the root folder Leave blank normally.

Fill in to make rclone start with directory of a given ID.

- Config: `root_folder_id`
- Env Var: `RCLONE_FILEFABRIC_ROOT_FOLDER_ID`
- Type: string
- Default: ""

## **--filefabric-permanent-token**

### Permanent Authentication Token

A Permanent Authentication Token can be created in the Enterprise File Fabric, on the users Dashboard under Security, there is an entry you'll see called "My Authentication Tokens". Click the Manage button to create one.

These tokens are normally valid for several years.

For more info see: <https://docs.storagemadeeasy.com/organisationcloud/api-tokens>

- Config: permanent\_token
- Env Var: RCLONE\_FILEFABRIC\_PERMANENT\_TOKEN
- Type: string
- Default: ""

## **Advanced Options**

Here are the advanced options specific to filefabric (Enterprise File Fabric).

## **--filefabric-token**

### Session Token

This is a session token which rclone caches in the config file. It is usually valid for 1 hour.

Don't set this value - rclone will set it automatically.

- Config: token
- Env Var: RCLONE\_FILEFABRIC\_TOKEN
- Type: string
- Default: ""

## **--filefabric-token-expiry**

### Token expiry time

Don't set this value - rclone will set it automatically.

- Config: token\_expiry
- Env Var: RCLONE\_FILEFABRIC\_TOKEN\_EXPIRY
- Type: string
- Default: ""

## **--filefabric-version**

### Version read from the file fabric

Don't set this value - rclone will set it automatically.

- Config: version
- Env Var: RCLONE\_FILEFABRIC\_VERSION
- Type: string
- Default: ""

## **--filefabric-encoding**

This sets the encoding for the backend.

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

- Config: encoding
- Env Var: RCLONE\_FILEFABRIC\_ENCODING
- Type: MultiEncoder
- Default: Slash,Del,Ctl,InvalidUtf8,Dot