## SFTP with curl - A Cheat Sheet

Did you know you can use curl as a minimal SFTP client? In this post we will guide you through the various curl commands for <u>uploading</u>, <u>downloading</u>, and <u>listing</u> files on a SFTP server, with ready to use snippets you can copy/paste in your terminal.

#### List files via curl

```
~/$ curl -k sftp://127.0.0.1
drwxr-xr-x 2 mickael mickael 4096 Jun 25 2021 Videos
drwx----- 2 mickael mickael 4096 Mar 5 00:00 .ssh
drwxr-xr-x 3 mickael mickael 4096 Jul 3 2021 Music
drwxrwxr-x 6 mickael mickael 4096 Jan 26 00:00 filestash
-rw----- 1 mickael mickael 55 Jun 26 2021 .authinfo
drwxr-xr-x 3 root root 4096 Jun 25 2021 ..
-rw----- 1 mickael mickael 100306 Apr 1 00:54 .bash_history
drwxr-xr-x 2 mickael mickael 20480 Mar 3 08:40 Pictures
drwxr-xr-x 3 mickael mickael 16384 Apr 1 09:17 Downloads
drwxr-x--- 46 mickael mickael 4096 Apr 1 00:54.
-rw-r--r-- 1 mickael mickael 4153 Jul 25 2021 .bashrc
drwxr-xr-x 11 mickael mickael 4096 Feb 6 18:59 Documents
drwx----- 7 mickael mickael 4096 Mar 30 16:19 .emacs.d
-rw-rw-r-- 1 mickael mickael 3433 Jun 25 2021 .tmux.conf
drwxr-xr-x 2 mickael mickael 4096 Nov 30 19:42 Desktop
~/$ curl -k sftp://127.0.0.1/~/Downloads
-rw-rw-r-- 1 mickael mickael 12 Apr 1 15:28 foobar.txt
```

#### **User authentication**

You have a few ways to authenticate a user.

A first technique is the default private key authentication which uses your private key available from ~/.ssh/id rsa:

```
~/$ curl -k sftp://root@127.0.0.1
```

The other method is by using your user defined password directly in curl, this is how it works:

```
\sim/$ curl -k --user root sftp://127.0.0.1 Enter host password for user 'root':
```

# Upload a file via curl

```
~/$ echo "lorem ipsum" > foobar.txt

~/$ curl -T foobar.txt -k sftp://127.0.0.1/~/Downloads/

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 6 0 0 100 6 0 9 --:--:-- 9

100 6 0 0 100 6 0 9 --:--:-- 9
```

### Download a file via curl

```
~/$ curl -k sftp://127.0.0.1/~/Downloads/foobar.txt lorem ipsum

or download the file directly in your local machine:

~/$ curl -O -k sftp://127.0.0.1/~/Downloads/foobar.txt

~/$ cat foobar.txt lorem ipsum
```