

## Pambda client guide for windows users

This guide will explain how to trigger the upload (mirroring) of your files with pambda servers.

### Setup the mirroring of your shared folder

1. Copy the archive wherever you want. We recommend to create a folder `C:\users\USER_NAME\Documents\pambda` and to use it as the parent folder. With `USER_NAME` your user name.
2. Decompress the archive. We assume that in `C:\users\USER_NAME\Documents\pambda` you now have

```
|-- input
|   |-- README.txt
|   |-- initialise_mc_credentials.bat
|   |-- mirror_input.bat
|-- pambda_client_guide.pdf
```

**NOTE:** If not already done, modify the default windows parameters to see extensions. On windows 10, search for `extension`, and you will find the switchable option.

3. Download the appropriate MinIO client binary version: <https://dl.min.io/client/mc/release/windows-amd64/archive/mc.RELEASE.2020-10-03T02-54-56Z> that works with the current MinIO server version
4. Rename the downloaded file into `mc.exe` and put it in `C:\users\USER_NAME\Documents\pambda`.
5. Double click on `initialise_mc_credentials.bat` and enter your login and password.
6. Double click on `mirror_input.bat`. This will open a terminal and mirror your data on pambda server. You can check that your data are online through the web MinIO interface at [minio.pambda.com](https://minio.pambda.com). The first time there should only be the file `README.txt`.

**NOTE:** Keep the terminal window open as long as you want to mirror your changes.

7. While mirroring, delete the file `README.txt` in the `input` folder. You can see in the terminal that the deletion has been detected and has been propagated to the pambda server. At [minio.pambda.com](https://minio.pambda.com) you can check that the `README.txt` file is no more in your shared folder.
8. Now you can edit your shared folder and see your changes mirrored on live. We advise to read the [workflow](#) and the [manual](#).

When you do not want anymore to push changes, close the terminal. This will stop the mirroring.

**WARNING:** Keep the `mc.exe` and `.bat` files next to the `input` folder. Do not rename these files or folders.

## Optional: Add a windows service

With this solution you won't need to start `mirror_input.bat` each time you want to mirror your changes. This solution creates and activates a windows service in the background of your operating system. It is started at each windows startup. It automatically detects when you change something in the shared folder and directly mirrors the change.

### Install the pambda client as a windows service

We recommend to use the tool `nssm`. It is a [trusted software in the public domain](#). If you know what you are doing, you can also try `winsw`.

Let's say that, in `C:\users\USER_NAME\Documents\pambda` you now have

```
|-- input
|   |-- README.txt
|   |-- initialise_mc_credentials.bat
|   |-- mirror_input.bat
|   |-- pambda_client_guide.pdf
```

Here is how to setup the windows service

- Download `nssm`, and extract it.
- Within the extracted folder, copy `nssm-<version>\nssm-<version>\win64\nssm.exe` into `C:\users\USER_NAME\Documents\pambda`. Replace `USER_NAME` with yours.

Copy the win32 version instead of win64 if you run on 32bits

- Open a terminal **as an administrator**.
- Change your working directory with the command

```
cd C:\users\USER_NAME\Documents\pambda
```

- Execute the command

```
nssm.exe install PambdaClient
```

that starts the installation of a windows service named `PambdaClient`.

- Fill text fields:

- “working directory”: `C:\users\USER_NAME\Documents\pambda`
- “path to executable”: `C:\users\USER_NAME\Documents\pambda\mc.exe`
- “arguments”: `mirror --overwrite --remove --watch --no-color --quiet C:\users\USER_NAME\Documents\pambda ALIAS\BUCKET`. Look at the end of `mirror_input.bat` for the appropriate values of `ALIAS` and `BUCKET`.

**Note:** You may need to add the `--insecure` option if the HTTPS certificate comes from a staging CA.

- Apply your changes. This creates the windows service.
- Open the “windows service management”. On Windows 10 search for “services”.
- Search and double click on the “pambda” service
- Switch the “startup type” to “Automatic delayed start”. We choose delay because of [this issue](#).
- Still in “windows service management” go to the “Connexion” tab.
- Select “this account” instead of “local system user”
- Right click on “Browse”
- In the text field at the bottom, enter your user
- Click on “verify name”
- Still on the connexion tab, check that your user name is correctly inserted. And edit the hidden password, enter your user password instead.
- Then apply
- Then go to the first tab and stop the service, then start and enable the service.

**WARNING:** Do not move the `nssm.exe` and `mc.exe` executable afterwards. The service starts through `nssm.exe`.

As quoted from <https://nssm.cc/usage>

Please note that the actual program entered into the services database is `nssm` itself so you must not move or delete `nssm.exe` after installing a service. If you do wish to change the path to `nssm.exe` you can either remove and reinstall the service or edit `HKLM\System\CurrentControlSet\Services\servicename\ImagePath` to reflect the new location.