

Setting up Bittorrent Sync on a Synology NAS

Before you start.

Before starting to setup Bittorrent Sync on your nas, please make sure that your NAS has a supported CPU. To find out which CPU your NAS has, look at [This Page](#).

Also, this guide assume a certain preparation and knowledge. This includes router setup and firewall configuration. You will need port 8888 to be open and forwarded to your nas.

Peparing user: btsync

Because we do not wish to run the BTSYNC service as root, we will be setting up a user for this.

Adding the user

This portion should be something you know about, so I have not gone into detail about this. As long as you just create a standard user, the rest of my guide should fit your needs.

Enabling user to login to SSH/Terminal...

The default behavior for new users on the Synology NAS is, that they are not allowed to login through SSH. This is easily done by altering the `/etc/passwd` file. To do this, login to you nas using SSH

Then perform the command: `vi /etc/passwd`

Find the line with your btsync user listed.

Here, change the last part of the line, where it says: `/sbin/nologin` this needs to say `/bin/sh`

Now, you do not need to logout just yet, to get started.

In order to get started with the btsync user, simply issue the command: `su - btsync`

Setting up btsync

By default you will be send to the home directory of the `btsync` user. We want this.

Now we are going to create some folders.

I use two folders. A `bin` folder and a `conf` folder.

```
mkdir bin
mkdir conf
```

Now we want to get hold of the latest build that fits our needs. Currently for my DS-1513+ it is build 1.2.82. We will aquire the build, using `wget`, and for the current build, the url is http://download-lb.utorrent.com/endpoint/btsync/os/linux-glibc23-x64/track/stable/btsync_glibc23_x64.tar.gz

Please notice, that I need to get the `glibc23` version, as Synology ships their OS with this old version of GLIBC for the DS-1513+

To check which version of GLIBC your NAS has, issue the following command:

```
/lib/libc.so.6
```

It will give you something along the lines of:

```
GNU C Library stable release version 2.3.6, by Roland McGrath et al.
```

If the version is 2.4 or above, you are free to get the full build:

http://download-lb.utorrent.com/endpoint/btsync/os/linux-x64/track/stable/btsync_x64.tar.gz

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BTSYNC secret: B7SJKS4HH4ZFBXNV4FGEKSFXOW3Y7TDP

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Next, we want to get the file into the bin folder

```
cd bin
```

In order to get the file, issue the command

```
wget http://download-lb.utorrent.com/endpoint/btsync/os/linux-glibc23-x64/track/stable/btsync\_glibc23\_x64.tar.gz
```

Once we have the file downloaded, we want to extract it.

```
tar xvf btsync_glibc23_x64.tar.gz
```

Two files are then extracted.

```
Btsync  
LICENSE.TXT
```

Now we want to get the configuration, so that we get the system set up as we want.

In order to generate the default configuration file, issue the command.

```
./btsync --dump-sample-config > ../conf/sync.conf
```

Now, you need to change the sync.conf file, to fit your needs.

The main things you want to change, is the *device_name* and the credentials under *webui*.

Also, you might want to change the *storage_path*.

For my setup, I have simply commented the line, as the app then automatically adds the folder with the auxiliary files, in the *bin* folder.

Once this is done, it is time to fire up the app.

Move into the *bin* folder, and issue the command:

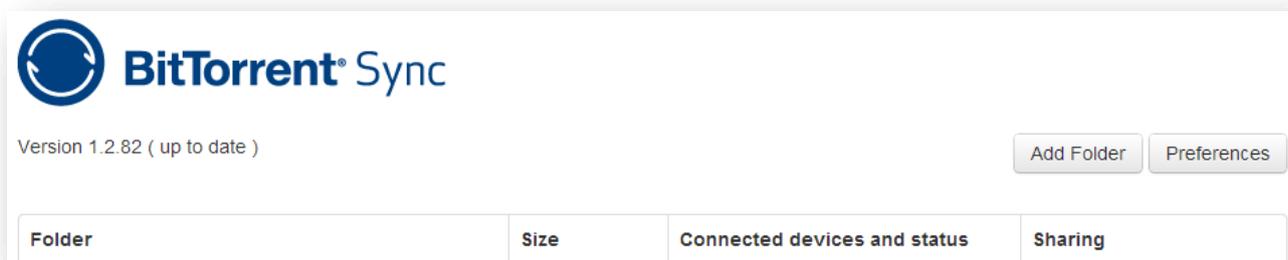
```
./btsync --config ../conf/sync.conf
```

Now, in your browser, enter

[http://\[IP_OF_YOUR_NAS\]:8888/gui](http://[IP_OF_YOUR_NAS]:8888/gui) – in my case: <http://192.168.10.5:8888/gui>

And enter the credentials you added to the *sync.conf* file

Now you are ready to start setting up shared folders on your NAS.



To always have the latest version of this tutorial, add this Read Only BT-Sync key:
B7SJKS4HH4ZFBXNV4FGEKSFXOW3Y7TDP

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