

Summary

These instructions will help you setup a ssh server, with password authentication, and deluge, the torrenting software. The idea is to use SFTP from one computer to another, and upload torrents to a specific directory. Deluge then automatically detects torrents being added to the folder, and queues them to the download queue. This allows for a more pleasant experience of task automation (because machines are supposed to do trivial, repetitive and boring stuff - they're called computers for a reason).

Environment setup

Setting up the torrents for the computer:

On the laptop, you're going to need to install some server. There are two options. One is to install ssh (if it is not there already), and the other is to install something like VNC, as it was before. I think for our case, using ssh would be much more easier for a reason that will be outlined to you in the following paragraphs. When you install ssh, you can use SFTP in order to connect to the computer. SFTP is supported by Filezilla, and other tools as well.

You will need to configure your system to do two things. You need to make it:

1. Execute the sshd daemon on boot (a process that runs in the background, and acts as a server)
2. Make sure the configurations of sshd are correct.

For Xubuntu / Lubuntu and the like, you should be able to read more (if needed) here [USSH]. I've summarized the steps as concise as I can for you on this document.

Let's start off by installing the ssh server.

```
sudo apt-get install openssh-server
```

When that installs, it comes with some default configurations. It would be a good idea to store the default configurations in case something horrible happens. So you can run the following commands in order to save a copy of the configurations.

```
sudo cp /etc/ssh/sshd_config /etc/ssh/sshd_config.factory-defaults
sudo chmod a-w /etc/ssh/sshd_config.factory-defaults
```

Now we need to open the configurations with a text editor in order to tailor the application to our needs.

```
sudo gedit /etc/ssh/sshd_config
```

Now look for the following lines and set them to the given values as demonstrated.

```
Port 30000
```

```
...
```

```
PasswordAuthentication no
```

Notice the port value. The port can be any value you set. You need to remember that port however, since when you will be connecting, you will need to specify that very port. You could also leave it to the default value 22 which would save you from entering the custom port.

When we're done, we need to restart **sshd** in order to reload the new configurations. You can assume that each time you change something in the **sshd_config** file, you will need to restart the **sshd** daemon.

```
sudo restart ssh
```

Getting a Torrenting application

We've checked out Transmission before. I've recently switched to something newer and better. It's called Deluge. Get Deluge, it is worth it.

```
sudo apt-get install deluge
```

So now, you can start deluge on the laptop. You will need to configure deluge for a special case. The special case is to look at a specified directory for file additions. When there is a file addition (hopefully a torrent) in this directory, deluge will detect it, and add it to the queued downloads. So in this way you can just focus on uploading the torrent to that directory and deluge will take care of the downloads for you. You just need to do the following: run deluge, and go to the preferences by pressing the Edit menu button. You can see this in figure 1.

Check the 'auto add torrents' checkbox. And also specify a location if you want your torrents to be downloaded somewhere in particular.

This should be pretty much what you need.

References:

[USSH][Open SSH Configuration (Ubuntu)](<https://help.ubuntu.com/community/SSH/OpenSSH/Configuring>)

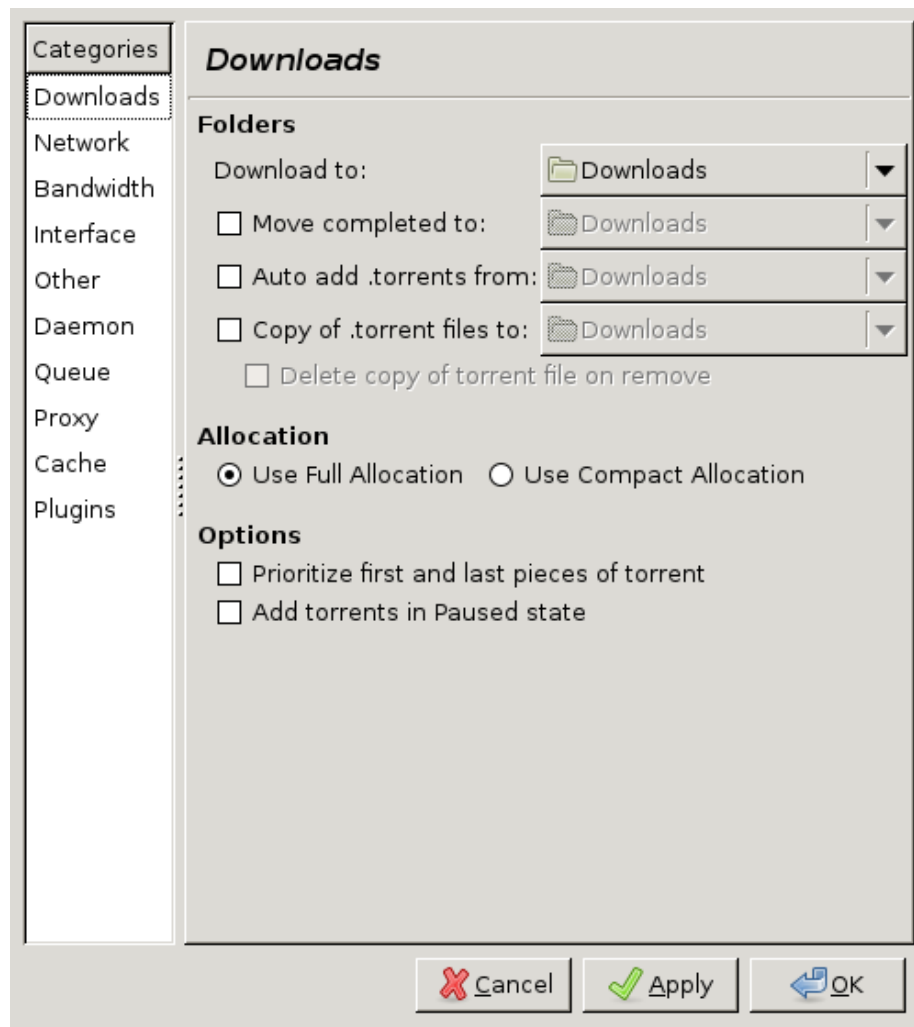


Figure 1: Preferences Dialog