

gFTP FAQ

Brian Masney

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by Brian Masney

This document is intended to answer questions that are likely to be frequently asked by users of gFTP.

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Chapter 1. General Information

1.1. What are the requirements to run gFTP?

- GTK+ 1.2.3 or higher. GTK+/Glib is included with most systems now. If you don't have it installed, you may want to check to see if your vendor has a package available. If not, you can download the latest version of GTK+ and Glib from <ftp://ftp.gtk.org/pub/gtk>. gFTP will work with either version 1.2 or 2.x of GTK+, but I would recommend using GTK+ 2.x.
- pthread libraries. Most systems already satisfy this requirement. If you are on a platform other than Linux, you may want to take a look at the FSU Pthreads library at <http://www.informatik.hu-berlin.de/~mueller/pthreads>.

1.2. How do I install gFTP?

- If you do not want to compile gFTP yourself, you can check my webpage. I have DEBs for Debian and RPMs for RedHat available. If you're looking for Solaris binaries, check out <http://www.sunfreeware.com>.
- If you are compiling gFTP yourself, extract the files from the distribution with `tar -zxvf gftp-<version>.tar.gz`
- Go to the `gftp-<version>` directory and type

```
./configure  
make
```

The configure script will generate a Makefile for your machine, and make will compile a binary for your machine. By default, when you run configure, it will install gFTP with the prefix `/usr/local`, so the gFTP binary will be `/usr/local/bin/gftp`. You can change this by typing `configure --prefix=/usr`, and it will then install the gFTP binary to `/usr/bin/gftp`.

- If the compile succeeds without any errors, you can type `make install` to install the binary. This will also copy some necessary files to `<install prefix>/share/gftp`. If you do not have root on your machine to install these files, copy the contents of the `docs/sample.gftp/` directory to `~/gftp`.

- You may want to glance at the USERS-GUIDE file that comes with this distribution. It contains a little bit of information about how to use it.

1.3. What systems is gFTP known to run on?

I develop gFTP on a Debian GNU/Linux machine. It should run under any other Linux distributions. Here is a list of other platforms I have received successful compile reports:

- FreeBSD/NetBSD/OpenBSD/BSOI
- Solaris
- IRIX
- Digital UNIX
- HP/UX 11

If gFTP compiles and runs on a platform not listed here, please email me about it and I'll add it to this list. If you are having problems compiling GTK+ or gFTP on another platform, try using GNU make instead of your vendor supplied make.

1.4. Does gFTP have a SVN repository?

gFTP is stored in GNOME's SVN repository. For instructions on how to setup your subversion client, visit the website <http://developer.gnome.org/tools/svn.html>. In a nutshell, you will need to run the following command to download the latest code:

```
svn co http://svn.gnome.org/svn/gftp/trunk gftp
```

To compile the SVN code, you will need *autoconf*, *automake* and *gettext* installed on your system. Once you have those packages installed, run the following series of commands:

- Run *./autogen.sh* to generate the configure scripts.
- If that is successful, run *./configure* to generate the Makefiles. By default, the binaries will be installed in */usr/local/bin*. You can change the install location by passing the *--prefix* argument to configure. For example, let's say you want to install the binaries in */usr/bin*. Run *configure --prefix=/usr*.

- If that is successful, run *make* to build the source.
- Optional: If that is successful, run *make install* to install the binary on your computer.

1.5. How do I report bugs in gFTP?

If you find ANY bugs in gFTP, please check to make sure that you are using the latest version of gFTP. If you are, please submit all bug reports to GNOME's Bugzilla. When sending in bug reports, please try to be as descriptive as possible. Send me what OS/version you are running, what compiler you are compiling with, the output of *gftp --info* and any other important information. If you get gFTP to crash, it would be very helpful if you could send me a backtrace. If you do not know how to do a backtrace, download the source code from my website. Edit the Makefile, and make sure that *-g* appears in the CFLAGS variable. Then recompile gFTP, but do NOT run *make install* because it will install a stripped binary in \$PREFIX/bin. Then type *gdb ./gftp*. Once you have a (gdb) prompt, type *r*. When gFTP crashes, go back to that terminal window, and type *bt*, and put that output in the bug that you file with bugzilla.

I also have a gftp-users mailinglist setup. I have a link to the archives on my main webpage. If it is strictly a bug report, please submit it to Bugzilla instead of the mailinglist. Bugs that are submitted to bugzilla are much easier for me to track.

Also, if you do not get a response back from me immediately, that is not uncommon. I usually stay very busy and I don't get to work on gFTP all of the time.

1.6. How do I force running the text or gtk+ version of gFTP?

To run the text port, you can type *gftp-text* or to run the gtk+ port, you can run the *gftp-gtk*. The *gftp* command is just a shell script that checks if your DISPLAY variable is set, and if so it'll run the appropriate version.

1.7. Is there a way for gFTP to download a bunch of files/directories and then exit when

it's completed?

Yes, the text port of gFTP supports this well. You can type:

```
gftp-text -d ftp://ftp.somesite.com/someplace
```

If someplace is a directory, it'll automatically download all of its subdirectories as well. If you want to transfer a file through ssh instead of ftp, just change the *ftp://* to *ssh://*.

1.8. In the GTK+ version of gFTP, do I have to enter a port, username and password to connect to a ftp server?

No you don't. If you leave the port blank, it'll default to the default port for the protocol you selected (port 21 for FTP). If you leave the username blank, it will default to logging in as anonymous.

1.9. Where does gFTP store it's options?

gFTP will automatically create a *~/.gftp* directory when it is first run. Your config file is *~/.gftp/gftp.rc*, and this is where all of gFTP's settings are stored. The config file is well commented, so take a glance at it and see if there is anything you want to change. Your bookmarks are stored in the file *~/.gftp/bookmarks*.

Every time gFTP is run, it will log the contents of the log window to *~/.gftp/gftp.log*. The contents of this file will be automatically purged this file when gFTP is started up.

1.10. Why aren't the file sizes comma separated?

If gFTP was compiled with *_GNU_SOURCE* defined (run *gftp --info*), then gFTP will use the *printf()* modifier *%ld*. If your *LANG* environment is set to C, then no commas will be inserted. If you are in the US, change your *LANG* environment variable to *en_US*.

1.11. When using an external editor, gFTP does not detect changes that are being made to the file.

Look at the man page for the editor you are using and see if there is a command line argument to have the editor run in the foreground (it won't fork to detach from the current terminal). If you are using one of the graphical VIM editors, you can add the `--nofork` argument.

1.12. How can I increase the size of the fonts in gFTP?

You can use the `gnome-font-properties` program to change the fonts used by all GTK+ 2.x applications.

1.13. I can't transfer certain file types in binary mode using the FTP protocol.

Edit your `~/gftp/gftp.rc` file and look at the `ext=` lines towards the bottom of the file. These lines control what icon is used for each file type. It also controls what mode is used for the file transfer. For example, to transfer all HTML files as binary, change the following two lines:

```
ext=.htm:world.xpm:A:
ext=.html:world.xpm:A:
```

to the following:

```
ext=.htm:world.xpm:B:
ext=.html:world.xpm:B:
```


Chapter 2. FTP Protocol

2.1. When gFTP tries to get the remote directory listing, the remote server complains about either the -a or -L argument to LIST.

If the server is complaining about the -L option, go under *FTP->Options->FTP* and disable resolve remote symlinks. If it is complaining about the -a option, go to *FTP->Options->General* and disable show hidden files.

2.2. When gFTP tries to get the remote directory listing, I receive the error: *Cannot create a data connection: Connection refused*

Go under *FTP->Options->FTP* and turn off passive file transfers. Instead of sending the PASV command to open up the data connection on the server side, the data connection will be opened up on the client side, and the PORT command will be sent to the server instead.

Chapter 3. HTTP Protocol

3.1. How do I set up my HTTP Proxy server?

Go under *FTP->Options* and hit the FTP tab. Enter HTTP as the proxy type and fill in your proxy server info on that screen. Then hit the HTTP tab and enter your same proxy server info there.

Chapter 4. SSH Protocol

4.1. gFTP will not log into the remote SSH server when using a non-English locale.

Note: This answer only applies to versions of gFTP \geq 2.0.18

You will need to download the source code to gFTP and edit the appropriate po/<lang>.po file. You will need to make sure the following strings are translated exactly as they appear in the SSH client.

- Enter passphrase for RSA key
- Enter passphrase for key
- Password
- password

Please upload the changes to the PO file to GNOME's SVN or email me the updated PO file. If you email me the updates, please make sure that you grab the latest PO file from SVN.

4.2. I'm having problems getting SSH2 transfers to work. I keep getting the error: ***Error: Message size XXXXXXXX too big from server***

Note: This answer only applies to versions of gFTP \leq 2.0.17

What probably is the problem, sftp-server isn't in your path on the remote server. When you try to connect to the remote server, you'll see the command gFTP is trying to run, and it'll look something like:

```
ssh -e none -l username hostname "echo -n xsftp ; sftp-server"
```

Try running this command. If you get a prompt asking:

Chapter 4. SSH Protocol

```
The authenticity of host 'hostname (###.###.###.###)' can't be established.  
RSA key fingerprint is xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx.  
Are you sure you want to continue connecting (yes/no)?
```

Tell it yes. gFTP won't even try to answer this question for you at the moment.
Then, if you get the following output:

```
Enter passphrase for key '/home/brian/.ssh/id_dsa':  
xsftp  
bash: sftp-server: command not found
```

You'll have to set the path to the sftp-server program. Alternatively you could go under FTP->Options->SSH and enable Use sftp subsystem. If you enable this, then you don't have to know the remote path to your sftp executable. But if you enable this, gFTP won't be able to send your password over to the ssh client. So if you're not using ssh-agent, then ssh will spawn the ssh-askpass program to grab your password.

4.3. What is the difference between the SSH and SSH2 protocols?

Note: This answer only applies to versions of gFTP <= 2.0.15

The SSH protocol uses sftp >= 0.7 from <http://www.xbill.org/sftp>. SSH2 uses the native file transfers found in the commercial SSH2 and in later versions of OpenSSH. The SSH2 protocol uses the sftp-server executable on the remote host and the SSH protocol uses the sftpserv executable.

Note: Due to confusion, the original SSH protocol was removed in gFTP 2.0.15. It is not shown in gFTP 2.0.14, but there is a config option called enable_old_ssh to enable this protocol.

Chapter 5. SSL Issues

5.1. When using the FTPS or HTTPS protocol, gFTP cannot connect if the remote server uses a self signed certificate.

You must add the public key of your self signed CA to your OpenSSL certs directory. On my Debian box, the OpenSSL certs are installed in /usr/lib/ssl/certs.

Chapter 6. Compiling Problems

6.1. When I try to compile gFTP, I see undefined symbol *libintl_gettext*. Or, another error is *undefined symbol LC_ALL*.

Try running

```
make distclean ; configure --with-included-gettext.
```

You could alternatively pass

```
--disable-nls
```

to configure, and internationalization support will not be compiled in.

