

ftpd

COLLABORATORS

	<i>TITLE :</i> ftpd		
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Chapter 1

ftpd

1.1 ftpd.guide

```
ftpd v1.2
a ftpd for AmiTCP 3.0b2 or higher
ported by Magnus Lilja
```

COPYRIGHTS	Copyrights.
Distribution	Distribution and status notes.
Overview	Why another ftp-daemon for AmiTCP?
Installation	How to install this thing
Options	Program options.
Bugreports	How to reach the author.
History	Version history and 'to do'-list.
Thanks	Thanks goes to..

1.2 ftpd.guide/COPYRIGHTS

Copyrights

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AmiTCP version of ftpd is

Copyright (C) 1994 by Magnus Lilja (lilja@lysator.liu.se)

1.3 ftpd.guide/Distribution

Distribution

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This ftpd is Freeware, you may copy and spread it freely as long as you don't make a profit of it. That means you should only charge for the actual costs, like disk + p&p.

The AmiTCP-group has permission to include this package in AmiTCP-releases.

The source is not available at the moment, though you can find the original bsd-source at many ftp-sites. I found it on:

unix.hensa.ac.uk:/pub/uunet/systems/unix/bsd-sources/libexec/ftpd

If you would like to support the author you may send postcards, money, harddisks :), etc to:

Magnus Lilja
Alsattersgatan 9C:17
S-582 51 LINKOPING
SWEDEN

or send an email to: lilja@lysator.liu.se

1.4 ftpd.guide/Overview

Overview

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Why a new port of ftpd?

I wasn't happy with the old one, there was no logging option (at least I didn't find it) and a couple of other things, so I started porting this one instead.

This ftpd offers:

- * Log every connection that is made to ftpd (to AmiTCP-log).
- * Log all file-transfers in AmiTCP:log/xferlog
- * Supports all ftp-commands (not everyone has been tested though).
- * You can have a file with usernames that are not allowed to use the ftpd.
- * Totally protect some directories from reading/writing even if you don't have MuFS installed on them.
- * Options to turn on/off debugging, logging and transferlogging.
- * Supports timeout (ftpd exits if the user has been idle for more than <timeout> seconds).

ftpd needs:

- * AmiTCP 3.0beta2 or higher.
- * and optionally, for better security, MultiUser v39 or higher.

The protection is not 100%, but hopefully it's enough for your needs. Note that all ftp-commands are implemented, like removedir makedir rename etc. An anonymous ftp-user cannot use makedir/removedir or rename/delete a file.

1.5 ftpd.guide/Installation

Installation

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Installation is very simple:

1. Copy ftpd to AmiTCP:Serv/
2. Edit inetd.conf to look something like this:

```
ftp          stream      tcp nowait root AmiTCP:Serv/ftpd ftpd -x -b30
```

Look in Options for information about the different options.

3. Make sure that every user that should be able to use the ftpd has an entry in both AmiTCP:db/passwd and your Multiuser-passwd file. The passwords must be the same. This is annoying, I know that, but hopefully AmiTCP and MuFS will use the same passwd-crypt algorithm in the future. Important: You cannot just copy the passwd-files since MuFS and AmiTCP uses different password-encryption routines (at least AmiTCP 3.0b2 and MuFS <1.7). This will hopefully change in the future. Make sure that the user 'ftp' is present in both files if you want to allow anonymous ftp logins.
4. If you want a transfer-log then make sure that everyone can write to it (AmiTCP:log/xferlog).
5. If you want a wtmp-file, like on UNIX, then create the file AmiTCP:log/wtmp.
6. Edit ftpusers and put it in AmiTCP:db/. No user that is listed in this file can use the ftpd.
7. Edit ftpdir and copy it in AmiTCP:db/. Anonymous ftp-users will only be able to access directories that are present in this file. If you don't create a ftpdir-file anonymous users can access every dir on your system.
8. Make sure that inetd has read the new inetd.conf by sending a CTRL-F to it, with 'break x F', where x is the processnumber of inetd.
9. ftpd looks for a list command named 'ls' in your path. The ls command should at least support the following flags:
 - '-l' produce long listing.
 - '-A' show all files
 The original AmiTCP:bin/ls handle these options.

Now you are ready to use the new ftpd!

1.6 ftpd.guide/Options

Options

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It's possible to send arguments to ftpd via inetd.conf:

```
ftp      stream      tcp nowait root dh1:tcp/bsdftpd/ftpd ftpd -x -b30
```

These are the options that are recognized by ftpd:

- d,-v Turns on debug-mode. A lot of info will show up in AmiTCP-log.
- l Turns on logging, ftpd will show things like 'user lilja logged in from xxxx' in the AmiTCP-log.

- x Activates file-transfer logging, the log-file is AmiTCP:log/xferlog.
- bnnn Specifies how large buffer ftpd should use when sending/receiving files. ←
The buffer will be nnn*512 bytes long. Default is nnn=10. This was added in order to speed up file-transfers.
- tnn Timeout in seconds. ftpd will exit when the user has been idle for nn seconds.
- Tnn Maximum timeout, the timeout setting must be below nn seconds.
- u Set umask (has no affect on Amiga version yet).
- G Allow uploads by anonymous users (the default is not to allow anonymous users to upload stuff). ←

1.7 ftpd.guide/Bugreports

Bugreports
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If you have any thoughts or suggestions concerning this port of ftpd then don't hesitate to write me an email, bug-reports are also welcome :)

Please send detailed bug-reports, that makes it easier for me to track the problem.

(email: lilja@lysator.liu.se)

1.8 ftpd.guide/History

History
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v1.2

- Changed internal function of timeouts.

v1.1 released 1994-06-16

- Implemented timeouts. The ftpd will now exit when the user has been idle for <timeout> seconds. You can change the timeout-value with the -t option. Default is 900 seconds.

- 'cd .' 'cd ..' now works.

v1.04 released 1994-06-10

- Major bug-fix. ftpd could trash your memory-list when you

put-files with it. Finally I have found the bug and corrected it.

v1.03 released 1994-06-09

- MAJOR CHANGE: The ftppart file is obsolete. Use the file ftpdir in order to define which directories that anonymous ftpusers should be `_allowed_` access to.
- Anonymous users cannot remove/rename files/dirs.
- If you want to allow anonymous uploads you have to use the new 'G' option when starting ftpd.
- SYST now returns AmigaOS, instead of 'UNKNOWN Type: L8'.

v1.02 released 1994-05-29

- Updated ftpd to use the new startup-code from AmiTCP-3.0b2.
- Major bug fixed. If you PUT a file and there wasn't enough space left on disk ftpd would cause a GURU. This was because I didn't do a `pr->pr_WindowPtr=-1` when the ftpd was started.
- The buffer option now also turns on buffers when the ftpd is receiving files.
- `mget` and `ls` with wildcards works now. The problem was that in the DIR structure the `dd_fd` field wasn't a filedescription as it should be. Shame on you SAS/C!
- ftpd no longer needs MultiUser but if you want better security then I recommend muFS.

v1.0 released 1994-04-30

- Initial release.

To do:

Wildcards doesn't work with `ls ('ls ami*')`.

1.9 ftpd.guide/Thanks

Thanks

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Many thanks to:

AmiTCP-Group	For a great package, and for the help you provided!
SAS/C	Good compiler, although I want <code>fcntl()</code> and <code>ioctl()</code> functions :)
Andreas Johansson	for help with debugging.
Patrik Lantto	for the port of GNU-ls.