

**ftpd**

**COLLABORATORS**

	<i>TITLE :</i> ftpd		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		January 18, 2023	

**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

# Contents

<b>1</b>	<b>ftpd</b>	<b>1</b>
1.1	FTPd.guide	1
1.2	FTPd.guide/About RC-FTPd	2
1.3	FTPd.guide/Requirements	2
1.4	FTPd.Guide/Usage	3
1.5	FTPd.guide/Editing Users	3
1.6	FTPd.guide/Editing Groups	4
1.7	FTPd.guide/Editing Welcome	5
1.8	FTPd.guide/Editing Goodbye	5
1.9	FTPd.guide/Messages	6
1.10	FTPd.guide/ARexx	7
1.11	FTPd.guide/Bugs	8
1.12	FTPd.Guide/History	9
1.13	FTPd.guide/Future	10
1.14	FTPd.guide/Thanks	11
1.15	FTPd.guide/Contact	11
1.16	FTPd.guide/Registration	12

---

# Chapter 1

## ftpd

### 1.1 FTPd.guide

RC-FTPd 2.x Guide - Table of Contents

-----

Welcome to rc-ftp, the best AmigaOS FTP server.

Hopefully this manual will help you get the most of this program, if you have any problems understanding it, or how to do things within the program itself do not hesitate to email me and I'll try to improve it in future.

About RC-FTPd	What is this program all about?
Requirements	What is needed to run RC-FTPd?
Usage	How do I run RC-FTPd?
Editing Users	How do I edit users?
Editing Groups	How do I edit groups?
Editing Welcome	What about the Welcome message?
Editing Goodbye	What about the Goodbye message?
Messages	Different message types?
ARexx	

---

The AREXX port (registered)

Bugs

Known bugs (in clients also)

History

What has gone before

Future

What I'm wanting to do

Thanks

Who helped?

Contact

How can I contact the coder?

Registration

How do I register?

This guide is a work in progress and will have a lot added...

## 1.2 FTPd.guide/About RC-FTPd

What is this program all about?

-----

FTP stands for File Transfer Protocol. Basically it is a way for users to access files on your hard drive, but with your permission only. ;-)

This program originally came about because of the lack of decent ftp servers on the amiga, on the one hand you had difficult to configure unix conversions, and on the other you had unsupported and somewhat lacking (also norally unstable) amiga based clients (that often seem to contain a lot of unix code ;-P)

I decided to write my own after hearing the thousandth complaint about the competition.

This is entirely written from scratch, with no code taken from any other program on the amiga or any other platform.

## 1.3 FTPd.guide/Requirements

What is needed to run RC-FTPd?

-----

Hardware

---

-----

Should be able to run on practically any Amiga computer.

Software

-----

Workbench 2.1 or later.

MUI 3.8 or later.

NList.mcc

Lamp.mcc

Textinput.mcc

Miami (tested) or any other TCP/IP stack (untested ;-)

2 megabytes of RAM (more recommended)

## 1.4 FTPd.Guide/Usage

How do I run RC-FTPd?

-----

RC-FTPd is designed as a stand-alone program, this means that you should run it from the shell/workbench. Although it may be possible to start it from your TCP/IP stack, that is not recommended, and I won't say here how to do it - do so at your own risk, and only if you are sure of what you are doing.

There are currently no Tooltypes/Arguments, however I will get round to adding some soon, not least for choosing different Prefs...

The config file is currently saved to both ENV and ENVARC, and is only loaded from ENV - so using something like HappyENV might be a good idea.

## 1.5 FTPd.guide/Editing Users

How do I edit users?

-----

The first 16 columns are the groups this user has access to, doubleclick on them to toggle On/Off.

Next comes the USERNAME and PASSWORD, both used during the login process. If you leave the password blank then the user is treated as being anonymous and doesn't need a password to login (although they are still asked for one).

In order to Remove a user you need to clear the Username, and to use a random password you need to clear the password.

You can also set the Maximum number of people allowed to use this account

---

at one time. (the small buttons are  $\backslash\ensurmath{\backslash\pm}1$ )

Finally you can set the log level once they have finished logging on.  
NOTE: The log level is only for display purposes, "snoop" may be a better word, but in a future version logging to file (registered only) will be possible.

Example

```
-----
x x x x x x x x x x x x x x x x RobinC      (hidden) 0  No log
x                                           anon          anon   3  Log all
x                                           anonymous      anon   3  Log all
x                                           ftp            anon   3  Log all
```

This allows me (RobinC) full access to everything I setup on my ftp, with no logging and no limit on how many times I can be on. The three anon users (all anon as used by different clients) are all logged fully, and have a limit of 3 connections \*each\*, a later version will allow the limiting of anon users as a seperate group.

## 1.6 FTPd.guide/Editing Groups

How do I edit groups?

-----

The first 16 columns indicate what access this path provides, whether it is Read, Write or Delete (r for read, w for write, x for read/write and uppercase for delete)

Different groups can get different Read/Write/Delete/+(subdir) access to the same path. The + (with other flags they go bold) means you can access all subdirs for that path providing they don't have their own access.

Display -

```
r = R      R = RD      r = R+      R = RD+
w = W      W = WD      w = W+      W = WD+
x = RW     X = RWD     x = RW+     X = RWD+
+ = S      D = D      D = D+
```

The next two are the alias and the path. It is recommended that you do not end the alias with a "/" character, although this should make no real difference. If an alias has no path then it will make a list from the aliases under it. This currently means you cannot have any file aliases.

Styles of ftp access

-----

There are 2 styles of ftp access, my preference is the un\*x style, where all aliases start with /, and you also have a root dir of just "/", the benefit of this is that you can have files in your root path. (Please note that you have to have "/" as the default path on the General page)

Example -

```
/                               Internet:FTP
/MP3                             Work:Music/MP3
/Upload                           Internet:Upload
```

The other style is disk style, where you don't have a root (/) alias, and none of the aliases start with that character, instead you have the aliases setup as fake disks (ie. you have them all with the ":" character in them). As this doesn't have a real root dir you *must* add every dir manually.

Example -

```
Games:           Internet:FTP/Games
Quake:           Internet:FTP/Quake
MP3:             Work:Music/MP3
Upload:          Internet:Upload
```

Example

```
-----
r                 X /           Internet:HTTP
  r               X /muds       Unix:muds
x   x             X /upload    Internet:HTTP/Upload
      r           X /cd0       cd0:
```

This one is pretty simple, the root (/) dir does not have subdir access so I must manually add any paths to it, the rest all have subdir access (bold), with /upload also getting write access. The only group with delete access is groups F, which I reserve for myself and any SysAdmin.

Important Note

-----

All the access flags will be changing some time in the near(?) future to comply with the latest ftp protocols, this should not effect your current settings, but will allow a *lot* more configuration in the future :-)

## 1.7 FTPd.guide/Editing Welcome

What about the Welcome message?

-----

The Welcome message is displayed whenever someone logs onto the ftp. It has a few limits (like any message) in that you cannot send a blank line or a line starting with a number (the program will silently add a "." to the beginning of both).

It is advisable to keep your welcome short if you are getting a large number of users as it bypasses the cps limiter.

You should also try to keep the the message lines as short as possible, some clients try to display the replies in ridiculous amounts of screen space and it is nice to be read (<50 chars should be ok).

## 1.8 FTPd.guide/Editing Goodbye

What about the Goodbye message?

-----

The Goodbye message is displayed whenever someone quits from the ftp. It



has a few limits (like any message) in that you cannot send a blank line or a line starting with a number (the program will silently add a "." to the beginning of both).

As the message is displayed only after someone QUITs you should probably keep this as short as possible (or not have one) as most clients will close down and the user will not be able to read it.

You should also try to keep the the message lines as short as possible, some clients try to display the replies in ridiculous amounts of screen space and it is nice to be read (<50 chars should be ok).

## 1.9 FTPd.guide/Messages

Different message types?

```
-----  
There are three types of messages,  
    Welcome  
    and  
    Goodbye  
are both banners.
```

The second type of messages are sent by the server on your command. To use these just highlight the user who is connected, type something into the string gadget, and next time they perform any command they will be sent the text. Please note that not all ftp clients allow the user to see the messages though.

The third type of message is only available to registered users. With this you can have a file called ".message" in \*every\* directory they can CWD/CDUP into, which will be sent automatically whenever they do so. It is advisable to keep these to only a few lines. They are most useful in explaining what a directory is used for.

Advanced

```
-----  
As said earlier not every client allows you to see the messages. There is also another way to hide messages if you want to (and you know your client doesn't show them) which you could mention in the Welcome banner. Instead of sending a normal password, they send the password with a "-" as the first character, so -
```

```
...  
PASS blah  
230-This is the banner...  
230-...  
230 User logged in, proceed  
...
```

```
...  
PASS -blah  
230 User logged in, proceed  
...
```

---

## 1.10 FTPd.guide/ARexx

The AREXX port

-----

The AREXX port is only available in the registered version.

A quick note, there are 3 types of handle, FTP, USER and ACCESS.  
The program checks that the handle you supply is valid, so you cannot cause a crash or anything by using the wrong type, however you will also not get a result. use the corrent type of handle for each command and you should have no problems.

Results can be either a string <"> or a number <>.

AREXX commands -

VERSION

RESULT = <ver>.<rev>

FTP QUERY ALL

RESULT = [<handle> ...]

FTP QUERY ALL STEM stem

stem.COUNT = <total>

stem.0 = <handle>

...

stem.total = <handle>

FTP QUERY handle STEM stem

stem.IP = <"0.0.0.0">

stem.ALIAS = <"alias">

stem.PATH = <"path">

stem.USER = <user handle>

stem.ACCESS = <access handle>

stem.LOG = <current loglevel>

stem.FILE = <"filename">

stem.CPS = <cps>

stem.SIZE = <size for SEND only>

stem.CURRENT = <current amount transfered>

FTP KICK handle

FTP ABORT handle

FTP LOG handle [1-4]

RESULT = <loglevel>

FTP MESSAGE handle message

USER QUERY ALL

RESULT = [<handle> ...]

```
USER QUERY ALL STEM stem
stem.COUNT    = <total>
stem.0        = <handle>
...
stem.total    = <handle>

USER QUERY handle STEM stem
stem.NAME     = <"name">
stem.PASS     = <"pass">
stem.ACCESS   = <access groups>
stem.MAX      = <max sessions>
stem.LOG      = <default loglevel>

ACCESS QUERY ALL
RESULT        = [<handle> ...]

ACCESS QUERY ALL STEM stem
stem.COUNT    = <total>
stem.0        = <handle>
...
stem.total    = <handle>

ACCESS QUERY handle STEM stem
stem.ALIAS    = <"alias">
stem.PATH     = <"path">
stem.READ     = <read groups>
stem.WRITE    = <write groups>
stem.DELETE   = <delete groups>
stem.SUBDIRS  = <subdirs groups>
```

## 1.11 FTPd.guide/Bugs

### Known bugs

-----

Any bugs in rc-ftp<sub>d</sub> that are reported are fixed within 24 hours.  
NOTE: This is only true if I have internet access, I can't help it if  
BT cut off my phone because I haven't paid my bill... erm... ;-)

### DopusFTP

-----

This client (although my use by choice) has a couple of minor bugs, mainly  
that you cannot abort a transfer from it properly, it just closes the link  
entirely. An annoyance only.

### AmFTP

-----

This client has a *very* serious bug in that it can (and does) send crap  
before a lot of commands, I've coded the server to ignore this, however  
it is bad coding on the authors part...  
(tech: I *think* it is sending Telnet sequences, something disallowed in  
the protocol...)

---

AmiFTP

-----

No bugs known. One strange thing is that immediately after starting a xfer it often sends a NOOP, I'm not sure if this is to test whether the server supports ABOR or not (any server that replies immediately probably does). If so then good on the coder, if not then "erm...?" ;-)

ATC

---

This client has the *\*very\** bad habit of sometimes requesting ports outside the service range (it's already been reported, so there should be a fix soon/already). The service range is 1024-5000, and any ports outside this range are often blocked (if you don't, why not?). I *\*may\** put a check in to refuse to accept these ports, but if it refuses to accept such a port then will ATC go into a loop or simply start crying? The current solution is to get the user to disconnect and reconnect using PASV (I believe it's a menu item)

Internet Explod<rer

-----

Erm... Probably so many bugs it'd take a ten meg guide ;-P

## 1.12 FTPd.Guide/History

What has gone before

-----

+ Added  
- Removed  
! Changed  
\* Bugfix

0.x

---

+ First versions, I finally got fed up with crap servers out there.

1.x

---

! This was fully working, and had the MUI gui added.

2.x

---

! This is where it went shareware, also lots more features added.

2.15 (23.7.2000)

-----

+ If you tick "Messages:" in the General page then it will look for a

---

file called ".message" (case unimportant) and send that, nothing will be sent if not found.

! The keyfile can be kept in any of 3 locations now - PROGDIR: S: and \$KEYFILES, it will look in that order.

+ If anyone sends their password starting with a "-" character (minus) then it will strip that and will not send any multi-line responses.

! The prefs file has moved to ENVARC/ENV, if you are upgrading from an earlier version then move it from the old PROGDIR:

\* Fixed a recent bug where I tried to cut down the size of the LIST response - this broke some clients.

2.16 (25.7.2000)

+ Added Auto-Comment, so now you can see who sent you those files...

+ Started to add the Help system, for now it'll only open the guide but sometime in the future it will send you to the right node.

2.17 (28.7.2000)

\* Changed all multi-line replies to start "###-" instead of just the first line.

+ Added some bubble-help lines to the prefs, most will have to wait for the prefs to be split off into another program though.

2.18 (8.8.2000)

! Changed some internals, should make it quite a bit easier to change all the other replies later. I'll probably make it use locale for user-specified replies, it's not important though ;-)

\* Finally got NOOP to be ignored properly (didn't realise it wasn't - doh!)

\* Forgotten exactly which version, but the timing routines should be a lot more accurate now - CPS is worked out for the last couple of seconds (email me if you think it's too long/short, or should be customisable) and the timeout will work right now to :-)

## 1.13 FTPd.guide/Future

What I'm wanting to do

Banlist

Individual accounts able to override MaxUsers

Individual accounts able to override MaxCPS

---

Rewrite the reply messages to be more informative  
Give more multi-line replies, like "Full", "Banned" etc  
Make little pictures for the prefs pages ;-)  
Seperate the prefs and main program  
Write a "Bitfield.mcc"  
Rewrite the network stuff to reduce the CPU load (about 3% on my 060)  
Get all the ftpd stuff into an external library  
Improve the prefs to automatically get whole dirs for fake access  
Make the normal root dir automatic  
Make SYST automatic  
Make the relevent sliders use "Unlimited"/"None" instead of "0"  
Allow commands to be turned on/off individually  
Change port in prefs to take effect immediately  
Make connected ppl remember their own username/pass/access  
Make ANON connections automatic  
Put more possible things to watch in the main window, but let client choose what ←  
to show  
Possibly make prefs use seperate windows for editing each user/group  
Groups need to be able to check if the disk exists first (overhead/flag???)  
Notify \*must\* get done soon (per command?)  
Log to file  
Helpfile in printable form (ps?)

## 1.14 FTPd.guide/Thanks

Who helped?  
-----

Firstly I'd like to thank Stefan Stuntz for his \*excellent\* MUI, without which this program wouldn't be, well, here. Yeah, thats right, without a decent GUI this wouldn't have been coded, and I'm not going back to the old gadtools, or the even worse "Artist Formalarly Known As ClassAct".

And the betatesters who helped find literally thousands of bugs for me to fix... (Thanking them? After all the work they gave me to do?? ;-)  
SnorsleX (God, does he have a hand in everything???)  
Purple  
g0d00d  
dUn3cHiLd

## 1.15 FTPd.guide/Contact

How can I contact the coder?  
-----

Email: Robin Cloutman <rycochet2@yahoo.com>  
ICQ: 13463163 (Rycochet)  
IRC: RobinC on irc.worldonline.nl #elitecafe  
Phone: (+44) [0]7968 967441 - Please note this is a (Orange) mobile, so is expensive, I also work so try to keep it between 7-9pm GMT.  
Post: Robin Cloutman  
5, Meadow View

---

Water Eaton Road  
Summertown  
Oxford  
ENGLAND  
OX2 7QS

those in italics require me to have a proper net connection, which I won't regain till I pay the phone company off :-)

NOTE

----

I no longer handle registrations directly myself, please contact

Blittersoft  
to register.

## 1.16 FTPd.guide/Registration

What are the unregistered limits?

-----

Limit of three connections at any time.  
MaxCPS is always at 3k cps.  
AREXX interface disabled.  
Auto send ".message" files disabled.  
Auto-comment disabled.  
Notify disabled. (When coded)  
Logging to file disabled. (When coded)

How do I register?

-----

Registration costs £19.95 (UKP), since version 2.13 all registration is handled by Blittersoft ([www.blittersoft.com](http://www.blittersoft.com)). You can pay via cheque, postal order or Visa/Mastercard/Switch, including secure online payment from the web site.

The telephone number is - (+44) [0]1908 225454

When you register you will be sent a keyfile, this will contain your name, email, and full postal address (they are under instructions not to accept registrations without all three). This means your keyfile will be traceable back to you, so do not spread it unless you wish to spend time visiting your local prison...