

**ftpd**

**COLLABORATORS**

	<i>TITLE :</i> ftpd		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

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# Chapter 1

## ftpd

### 1.1 FTPd.guide

RC-FTPd 2.x Guide - Table of Contents

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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?

MUI  
This program uses MUI!

Editing Users  
How do I edit users?

Editing Groups  
How do I edit groups?

Editing General  
How do I edit general settings?

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.  
(AppIcon requires 3.5 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/MUI

This application uses

MUI - MagicUserInterface

(c) Copyright 1992-97 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for

a file called "muiXXusr.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 30.- or US\$ 20.-

to

Stefan Stuntz  
Eduard-Spranger-Straße 7  
80935 München  
GERMANY

Support and online registration is available at

<http://www.sasg.com/>

## 1.6 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  $\pm$ )

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  
-----

Screenshot

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	Username	Password	Max	Log
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.

## 1.7 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. 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. (Though it is possible to hide files with it)

Example

-----

Screenshot

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	Alias	Path
r	r	r	r												X	/	Internet:HTTP
r															X	/-Software-	Internet:HTTP/-Software-
			r												X	/cd0	cd0:
																/downloads	fake
				r											X	/muds	Unix:muds
				r											X	/muds/mud+	Unix:mud+
															X	/upload	Internet:HTTP/Upload

Ok, root (/) only has subdir access for people \*not\* in group 0 - ie not anon users.

The only dir anon ppl get access to is "/-Software-", where they can find this server strangely enough...

My cd drive is there in case I want ppl to be able to access it. If there's no disk in the drive then it won't complain if anyone does try to access it.

Next up is my /downloads dir - usually full of stuff I haven't cleared up, since I've downloaded it from the net, I don't want ppl grabbing over my slow modem ;-)

The next two are due to me coding muds - sometimes I want people to grab my source code. This way seems the easiest to me.

---



Finally is my /upload dir - this is for anyone sending me stuff, but as I don't use it very often I don't want people to send stuff unless I specifically allow it.

For all of these I keep group F with all flags - for me to remotely access and play ;-)

#### Important Notes

-----  
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 :-)

## 1.8 FTPd.guide/Messages

### Different message types?

-----  
There are three types of messages:

#### 1. Banners

On the prefs window these are shown in the shine pen.

They can contain certain control codes, so the user can get automatic information about the state of the server.

Closed - sent when someone tries to connect and they can't, either due to the server being full, or you having closed it.

Greeting - sent when someone first connects - bad practice to use it but some ppl may want to.

Welcome - sent as soon as they are recognised after a valid USER/PASS.

Goodbye - sent after they issue a QUIT command... not often seen ;-)

#### 2. Console messages

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.

#### 3. ".messgae" files

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
...
```

## 1.9 FTPd.guide/Editing General

How do I edit general settings?  
-----

Hopefully these are pretty self-explanatory, but use the bubble help if you are unsure of anything.

Screenshot

(Sorry, but this gets new things so often, the source is the most up-to-date help available).

## 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.d that are reported are fixed within 24 hours. (Hopefully)

### Clients

-----

Quite a few other clients have bugs which are not mentioned here because either I have coded around them, they are not serious enough to matter, or they also do the right things if they can't do the wrong things.

### 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.

### 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)

### Voyager

This one is a pain - it doesn't seem to know even the most basic fact - you CWD to a dir, and RETR a file... Not very clever as that is not something that *any* of the RFC's allow...

### mFTP

This one doesn't know the CDUP command, and seems to think that every server understands "CWD .." as being the parent - something that is not guaranteed, in fact, I had to specifically code that in... :-/  
A little note here - CDUP shouldn't be used too much because of symbolic links - where there is eg - "/current/" = "/pub/01012000/" where the server changes the path automatically for you, instead you should use the absolute path (unix style) of the parent that *you* as a client believe you have...

### 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 :-)

2.19 (13.8.2000)

-----

- Removed the preferences "System type" setting.
- + Added support for Identify.library to find your system type. It only opens the library when needed (but most clients ask for SYST anyway)
- Removed the preferences "DefPath" setting.
- + Made it automatically find the default path.

2.20 (21.8.2000)

-----

- + Started to add the locale support. Will make it easy to improve the replies later.

2.21 (31.8.2000)

-----

- \* Doh! pirate check forgot to check if it was registered - so unreg suddenly became pirates (as there's already a pirate key out there I see this as a necessary thing unfortunately) :-)
- ! Changed a lot of stuff in the LIST/NLST stuff, now it should show dirs that point somewhere else as links (I might make that prefs if people ask) - this means no more fake dirs ;-P
- \* Stupidly had "Save" and "Use" mixed up in the code, so they did each others jobs - oops ;-P

2.22 (2.9.2000)

---

-----

- Removed link stuff - it breaks too many clients :-(
- \* Fixed the locale stuff and rewrote the error reporting a little.
- Removed the identify.library from SYST - it wasn't needed as the official spec only recognises "AmigaOS" as being needed...
- + Added proper support for some more commands (so they return the correct responses to different things, even if they do nothing...)
- \* Changed a lot of stuff in \*all\* the commands so logging can go in.
- + Added EPLF format (LIST), client needs to support it though (I'm relying on the fact that if a client supports the CLNT command then it does - probably wrong though)
- + Added FEAT command, but not OPTS \*bad boy\* ;-P

2.23 (28.10.2001)

-----

- \* Fixed a long-standing bug in closing the prefs page (Save/Use/Cancel).
- \* Changed the LIST output slightly - should work with more clients.

2.24 (28.10.2001)

-----

- \* Fixed 3 enforcer hits that could happen by accident - non serious.
- + Added a new AppIcon, now shows the number of users online. (3.5+)
- + Added NoPASV option - disables the PASV command, useful for firewalls.

2.25 (29.10.2001)

-----

- \* Changed the LIST output slightly again - should be even more compatible.

2.26 (29.10.2001)

-----

- + Added the ability to give some extra info in all messages, currently max\_cps, max\_users and current\_users.

2.27 (31.10.2001)

-----

- + Log to file. Either all to "PROGDIR:ftpd.log" or seperately to "PROGDIR:logs/<user>.log"

2.28 (03.11.2001)

-----

- \* Now forces unix style of ftp.

---

- + Doesn't show requester for non-existent drives (removeable etc)
- \* Fixed output of a few commands - hope there aren't any left to fix.
- + Totally localised, just need translations now.
- \* Fixed Group prefs page to disable string gadgets on startup.

2.29 (04.11.2001)

-----

- \* Fixed a security bug that's been there since the start - hard to find which is why nobody reported it before now.
- + Now removes trailing "/" in all alias+paths.
- \* Minor speedups in various bits of code.
- \* Fixed installer - no longer overwrites your real keyfile (if you're registered)... I hope... ;-)
- \* Finally updated the guide and added screenshots ;-)
- \* Fixed a couple of Help nodes in the MUI stuff. (pointing to guide)

2.31 (07.11.2001)

-----

- \* Fixed a bug in the log to file stuff.
- + First translation (Sprski... whatever that is, thanks Djole ;-)
- \* Some small bugfixes, optimisations.

2.32 (08.11.2001)

-----

- \* Fixed a possible security bug in it, to handle MUI.

2.33 (01.12.2001)

-----

- \* Improved transfer speed dramatically... now over twice as fast for less CPU.

2.34 (02.12.2001)

-----

- \* Fixed the message options (\$.)

2.35 (02.12.2001)

-----

- \* Fixed a bug in the ABORT handling.
  - \* Fixed bugs in STOR and RECV with file permissions.
-



\* Fixed a bug in the fast transfer code.

2.36 & 2.37 (23.12.2001)  
-----

\* Minor bugfixes

+ Portuguese catalog

2.38 (05.02.2002)  
-----

\* Finally fixed a long standing freezing bug.

2.39 (06.02.2002)  
-----

\* Improved the network speed somewhat, optimised for 16k tcp buffers (most systems) - seems to give a 60% speedup for some ppl, feedback please ;-)

+ Now anon users are limited to "Max Users" PER IP!! - This means if someone logs in under more than one anon username they get the Max of the one they are attempting to log on under, not min/max calculations...

2.40 (12.02.2002)  
-----

+ Now uses internal async file access for transfers - should use less cpu and may even be slightly faster ;-)

+ Internal SFV support - a form of CRC32 checking, if you get a \*.sfv file \*before\* the main file, then it will check the file on completion, and set the comment to "OK ..." or "BAD ..." depending on if it matches ;-)

2.41 (27.02.2002)  
-----

+ Now uses async connect() - so deals with stealth firewalls better ;-)

+ Can use ENV:IP for PASV - so if you are behind a router it should help.

## 1.13 FTPd.guide/Future

What I'm wanting to do  
-----

Banlist

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 ;-)

Separate 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  
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 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  
Notify needed to get done soon (per command?)  
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 and other people who helped find literally thousands of bugs for me to fix... (Thanking them? After all the work they gave me to do?? ;-)

SnorsleX  
Purple  
g0d00d  
dUn3cHiLd  
Crab  
spr0g  
Djole  
Fred  
Songonco

## 1.15 FTPd.guide/Contact

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

Email: Robin Cloutman <rycochet2@yahoo.com>  
ICQ: 13463163 (Rycochet) - rarely checked  
IRC: RobinC on ukl.arcnet.vapor.com #diehard  
Phone: (+44) [0]1865 310106 - my only phone, so usually engaged on net ;-)  
Post: Robin Cloutman  
5, Meadow View  
Water Eaton Road  
Summertown  
Oxford  
ENGLAND  
OX2 7QS

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Please note - ChaoZer is now my co-coder for 3.x - but can't help with anything in 2.x, so keep contacting me ;-)

## 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.

How do I register?  
-----

Registration costs \$20 (USD) - this will increase when 3.x is released!

Please use Reg.net

<https://secure.reg.net/product.asp?ID=10092>

for credit card orders, or send me a cheque for £20 (UKP) - as I hate handling them ;-).

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...

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