

Services:

ftpd – a file transfer server

David Morgan

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Configurable ftpd capabilities

-- in /etc/ftppass

- Access – who gets in
- Permissions – once in what can they do
- Logging – what/where to log
- Information – what notifications to publish

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Access – by invitation only

- “class” statement extends access
- Host address must explicitly appear*
- User must be of approved type

*“Failing to define a valid class for a host will cause access to be denied.” ftpaccess man page

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Session setup – 2 types

	more <u>liberal</u>	more <u>limited</u>
Filesystem visibility	entire	partial*
File upload	permitted	not permitted
USER/PASS commands	permitted	not permitted

*Confined to a subdirectory presented to user as if root directory (chroot)

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Who gets which type?

Name used
to login:

Your regular user name	if config'ed as "guest"	"anonymous" or "ftp"
liberal		

Resultant
session

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"Type" nomenclature

Name used
to login:

Your regular user name	if config'ed as "guest"	"anonymous" or "ftp"
real		

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/etc/ftpaccess “class” statement

class <class> <typelist> <addrglob>

Name you choose
for the class you
are defining

List of user types
you choose to
permit

List of addresses of the
hosts you choose to
admit

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Host class statement examples

	<u>class</u>	<u>typelist</u>	<u>addrglob</u>
class	all	real,guest,anonymous	*
class	inside	real,guest	192.168.3
class	outside	guest,anonymous	!192.168.3

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Designating users to be treated as “guests”

Guestuser <user name>

or

Guestgroup <group name>

plus

/etc/group:

<group name>: : : [<user name>...]

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Permissions

chmod <yeslno> <typelist>

delete <yeslno> <typelist>

overwrite <yeslno> <typelist>

rename <yeslno> <typelist>

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Other permissions

- download throughput restriction
- upload permission
- number-of-files transfer limit
- number-of-bytes transfer limit
- session duration limit

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Logging

- For which kind of users?
 - real
 - anonymous
 - guest
- Log what?
 - ftp commands issued
 - files transferred
 - security violations attempted
- Log where?
 - xferlog
 - per syslog (transfers only)

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Information

- greeting
- banner
- message file

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