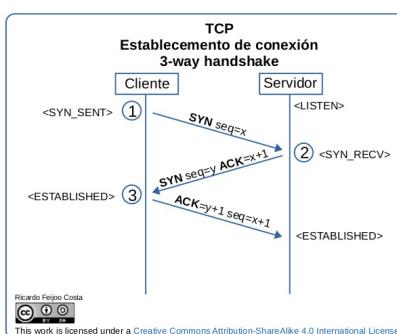


Cheat-Sheet: FTP

Clientes FTP
GUI → FileZilla Client (Modo Pasivo)
Comandos → ftp
GNU/Linux → ftp (Modo Pasivo) 
MS Windows → ftp (Modo Activo) 



FTP - Establecimiento de conexión → 21 (Server TCP Port)

No.	Time	Source	Destination	Protocol	Length	Info
5	0.0006427614	10.0.2.15	ftp.ujaen.es	TCP	74	39090 → 21 [SYN] Seq=0 Win=65535 Len=0
6	0.038841648	ftp.ujaen.es	10.0.2.15	TCP	60	21 → 39090 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
7	0.038913556	10.0.2.15	ftp.ujaen.es	TCP	54	39090 → 21 [ACK] Seq=1 Ack=1 Win=65535 Len=0
8	0.083003327	ftp.ujaen.es	10.0.2.15	FTP	106	Response: 220 Servidor FTP anonimo d
9	0.083108496	10.0.2.15	ftp.ujaen.es	TCP	54	39090 → 21 [ACK] Seq=1 Ack=53 Win=65535 Len=0
14	5.969206024	10.0.2.15	ftp.ujaen.es	FTP	70	Request: USER anonymous
15	5.969965755	ftp.ujaen.es	10.0.2.15	TCP	60	21 → 39090 [ACK] Seq=53 Ack=17 Win=6
16	6.002095887	ftp.ujaen.es	10.0.2.15	FTP	129	Response: 331 Anonymous login ok, se

```
(kali㉿kali)-[~]
$ ftp ftp.ujaen.es
Connected to ftp.ujaen.es.
220 Servidor FTP anonimo de la Universidad de Jaen
Name (ftp.ujaen.es:kali): anonymous
331 Anonymous login ok, send your complete email address as your password
Password:
230 Acceso permitido para anonymous
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||36136|)
150 Opening BINARY mode data connection for file list
drwxr-xr-x 6 ftp      ftp          152 Nov  3  2011 pub
-rw-r--r-- 1 ftp      ftp          1877 Apr 26  2007 welcome.msg
226 Transfer complete
ftp> lcd /tmp
Local directory now: /tmp
ftp> get welcome.msg
local: welcome.msg remote: welcome.msg
229 Entering Extended Passive Mode (|||28263|)
150 Opening BINARY mode data connection for welcome.msg (1877 bytes)
100% |*****| 1877           12.69 MiB/s   00:00 ETA
1877 bytes received in 0:00:00 (56.88 KiB/s) before you are able to hear
ftp> !
(kali㉿kali)-[tmp]
$ ls -l welcome.msg
-rw-r--r-- 1 kali kali 1877 Apr 26  2007 welcome.msg
(kali㉿kali)-[tmp]
$ exit
ftp> quit
221 Goodbye.
(kali㉿kali)-[~]
```

modo Pasivo → Inicio conexión de datos desde el cliente ftp
→ TCP Port cliente ftp ≥ 1024
→ TCP Port servidor ftp ≥ 1024

GNU/Linux → command ftp 

WireShark

No.	Time	Source	Destination	Protocol	Length	Info
39	10.631906463	10.0.2.15	ftp.ujaen.es	TCP	74	56356 → 36136 [SYN] Seq=0 Win=65535 Len=0 MSS=1440
40	10.665672297	ftp.ujaen.es	10.0.2.15	TCP	60	36136 → 56356 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
41	10.665786034	10.0.2.15	ftp.ujaen.es	TCP	54	56356 → 36136 [ACK] Seq=1 Ack=1 Win=65535 Len=0
45	10.701196316	ftp.ujaen.es	10.0.2.15	FTP-DATA	182	FTP Data: 128 bytes (EPASV) (LIST)
46	10.701196871	ftp.ujaen.es	10.0.2.15	TCP	60	36136 → 56356 [FIN, ACK] Seq=129 Ack=1 Win=65535 Len=0
47	10.701282132	10.0.2.15	ftp.ujaen.es	TCP	54	56356 → 36136 [ACK] Seq=1 Ack=129 Win=65535 Len=0
48	10.701745304	10.0.2.15	ftp.ujaen.es	TCP	54	56356 → 36136 [FIN, ACK] Seq=1 Ack=130 Win=65535 Len=0
49	10.702298799	ftp.ujaen.es	10.0.2.15	TCP	60	36136 → 56356 [ACK] Seq=130 Ack=2 Win=65535 Len=0

Debian Handbook - FTP

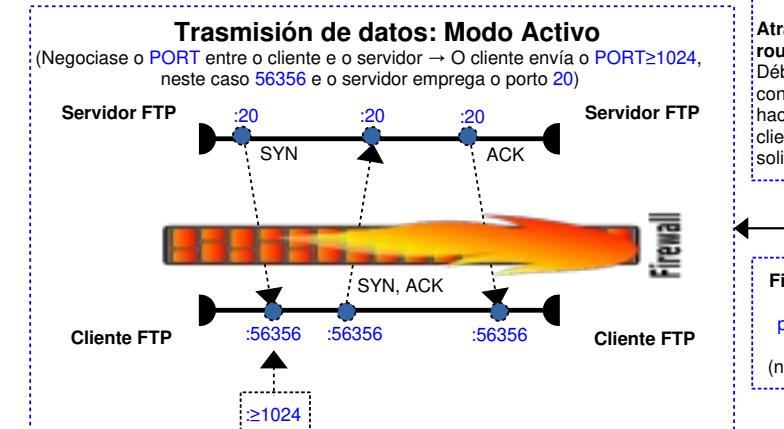
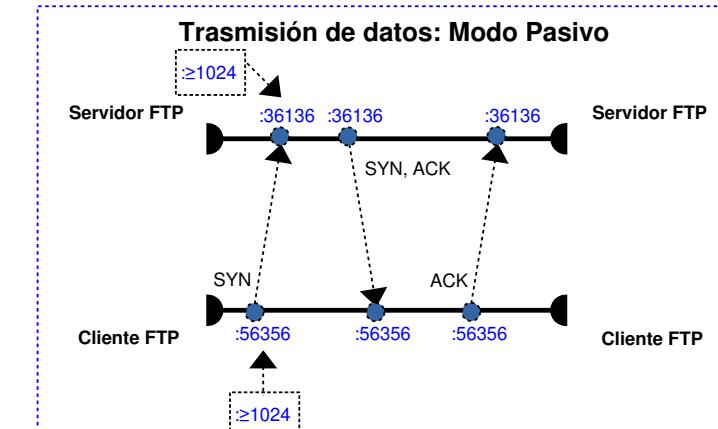
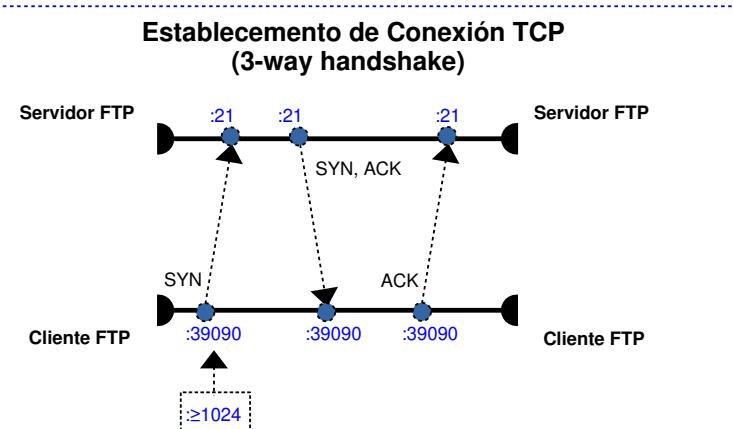
Debian Wiki - FTP

Wiki FileZilla FileZilla Client FileZilla Server

Kali - ftp

Kali - sftp

Kali - tftp-hpa



Problema
Atravesar o firewall, router, etc do cliente.
Débese permitir conexões entrantes hacia o cliente cuando el cliente no es el host que solicitó la conexión.

Filezilla-Server pode empregar outro porto ≥ 1024 e non o porto 20 (neste caso o 33979)

Link 

No.	Time	Source	Destination	Protocol	Length	Info
15	8.150443686	10.10.10.11	10.10.10.10	FTP	79	Request: PORT 10,10,10,11,194,21
16	8.15044370863	10.10.10.11	10.10.10.11	FTP	84	Response: 200 PORT command successful.
17	8.177898548	10.10.10.11	10.10.10.10	FTP	70	Request: STOR probe.txt
18	8.179760217	10.10.10.10	10.10.10.11	FTP	83	Response: 150 Starting data transfer.
19	8.179908898	10.10.10.10	10.10.10.11	TCP	74	33979 → 49685 [SYN] Seq=0 Win=64240 Len=0
20	8.180707829	10.10.10.11	10.10.10.10	TCP	74	49685 → 33979 [SYN, ACK] Seq=0 Ack=1 Win=64
21	8.180752853	10.10.10.10	10.10.10.11	TCP	66	33979 → 49685 [ACK] Seq=1 Ack=1 Win=64
22	8.180973949	10.10.10.10	10.10.10.11	TCP	73	33979 → 49685 [PSH, ACK] Seq=1 Ack=1 Win=20
23	8.181133026	10.10.10.10	10.10.10.11	TCP	66	33979 → 49685 [FIN, ACK] Seq=8 Ack=1 Win=20
24	8.182418944	10.10.10.11	10.10.10.10	TCP	66	49685 → 33979 [ACK] Seq=1 Ack=9 Win=20
25	8.182533259	10.10.10.10	10.10.10.11	FTP	86	Response: 226 Operation successful

