# 完整流程

#### STEP 1: Open Server

```
1../server 8888 (server)

× ./server (server) 第1 × ..file-transfer (zsh) 第2

→ 2017-ITCN-file-transfer (master) ./server 8888

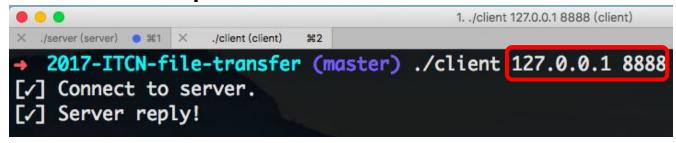
File transfer server started

Maximum connections set to 5

Listening on 0.0.0.0:8888

Waiting for client...
```

## STEP 2: Open Client



設定要連到的 "Server的IP 以及Port", 不是指定 Client的Port

#### STEP 3: Server回傳File List

```
→ 2017-ITCN-file-transfer (master) ./server 8888
File transfer server started
Maximum connections set to 5
Listening on 0.0.0.0:8888
Waiting for client...
[INFO] Connection accepted (id: 4)
[INFO] Client is from 127.0.0.1:52728
[INFO] Send hello msg to client
 INFO] List file to client
```

- 1. Server會收到Client 的連線, 因Client未指 定Port, 所以Client的 Port為Random Port (圖中的52728)
- 2. 成功建立連線後 , Server會回傳檔案 列表, 只需要回傳 remote\_download資 料夾下的三個檔案即 可

## STEP 4: Client收到Server回傳的File List

```
→ 2017-ITCN-file-transfer (master) ./client 127.0.0.1 8888
[/] Connect to server.
[/] Server reply!

Files on server:
Lab3_2_spec.pdf
test.png
test.txt
-------
```

Client會收到Server傳回來的file list

#### STEP 5: Client輸入要下載的檔案名稱

```
Files on server:
Lab3_2_spec.pdf
test.png
test.txt
Enter the filename: test.png
[-] Downloading `test.png`
   Download successfully!
```

Client輸入要傳送的檔案名字給 Server

```
[INFO] Connection accepted (id: 4)
[INFO] Client is from 127.0.0.1:52830
[INFO] Send hello msg to client
[INFO] List file to client
[INFO] Client send `test.png` request
```

#### Server收到Client傳過來的檔案名字之後,會:

- 1. Server回傳檔案的大小給 Client
- 2. Server開始執行While迴圈傳送給Client

同時Client也會收到Server傳過來的檔案大小以及 開始執行While迴圈接收檔案

# 整體流程如下

```
2017-ITCN-file-transfer [master] \neq ./client 127.0.0.1 8888
[✓] Connect to server.
[/] Server reply!
Files on server:
test.png
test.txt
Lab3_2_spec.pdf
Enter the filename: Lab3_2_spec.pdf
[-] Downloading `Lab3_Z_spec.pdf` ...
Download successfully!
Enter the filename: test.txt
[-] Downloading `test.txt` ...
Download successfully!
Enter the filename: test.png
[-] Downloading `tes<del>t.png` ..</del>.
[/] Download successfully!
Enter the filename: .exit
[x] Socket closed
```