# Simple Web Browser Server 2.0

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## Environment

```
Windows 10
Python 3.7.4
chrome 版本 76.0.3809.132（正式版本） （64 位）
Internet Download Manager v6.35 Build 5 (Sep/20/2019) Trial
```

## How to run the server

1. Set up

    Open `config.py` file to set up your ip address and port.

    ```
    HOST = '127.0.0.1'
    PORT = 8080
    ENABLE_RANGE_HEADER = True
    VERBOSE = True
    DEBUG = False
    HTTP = 1.1
    ```
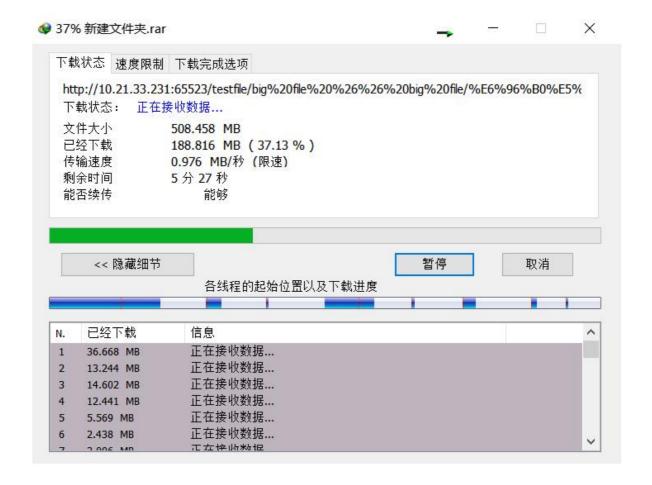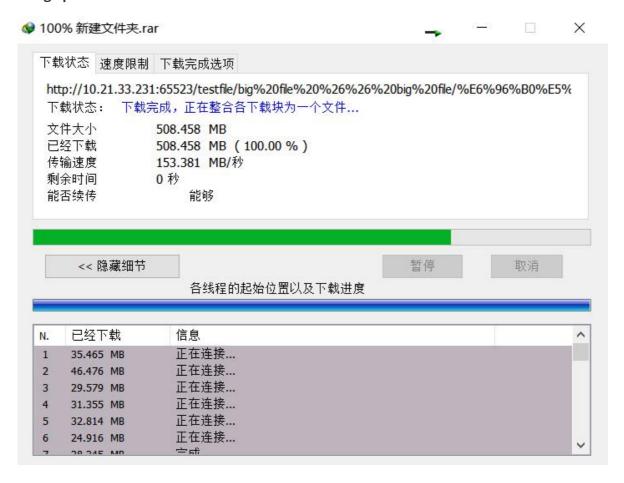
2. Run the server

    ```
    $ python web_file_system_server.pys
    ```
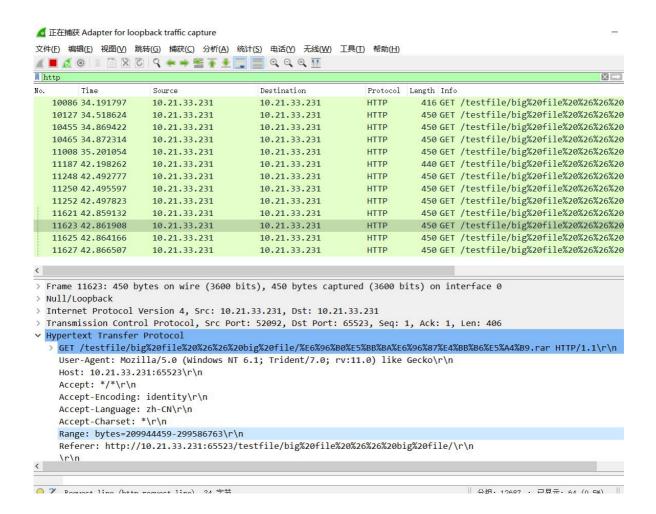
## Test

**Download resume**

**merge pieces**



**Byte field in the request**

正在捕获 Adapter for loopback traffic capture

文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(Y) 无线(W) 工具(T) 帮助(H)

http

| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|------|--------|-------------|----------|--------|------|
| 10086 | 34.191797 | 10.21.33.231 | 10.21.33.231 | HTTP | 416 | GET /testfile/big%20file%20%26%26%20 |
| 10127 | 34.518624 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 10455 | 34.869422 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 10465 | 34.872314 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11008 | 35.201054 | 10.21.33.231 | 10.21.33.231 | HTTP | 440 | GET /testfile/big%20file%20%26%26%20 |
| 11248 | 42.492777 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11250 | 42.495597 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11252 | 42.497823 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11621 | 42.859132 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11623 | 42.861908 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11625 | 42.864166 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |
| 11627 | 42.866507 | 10.21.33.231 | 10.21.33.231 | HTTP | 450 | GET /testfile/big%20file%20%26%26%20 |

> Frame 11623: 450 bytes on wire (3600 bits), 450 bytes captured (3600 bits) on interface 0
> Null/Loopback
> Internet Protocol Version 4, Src: 10.21.33.231, Dst: 10.21.33.231
> Transmission Control Protocol, Src Port: 52092, Dst Port: 65523, Seq: 1, Ack: 1, Len: 406
∨ Hypertext Transfer Protocol
  > GET /testfile/big%20file%20%26%26%20big%20file/%E6%96%B0%E5%BB%BA%E6%96%87%E4%BB%B6%E5%A4%B9.rar HTTP/1.1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 6.1; Trident/7.0; rv:11.0) like Gecko\r\n
    Host: 10.21.33.231:65523\r\n
    Accept: */*\r\n
    Accept-Encoding: identity\r\n
    Accept-Language: zh-CN\r\n
    Accept-Charset: *\r\n
    Range: bytes=209944459-299586763\r\n
    Referer: http://10.21.33.231:65523/testfile/big%20file%20%26%26%20big%20file/\r\n
    \r\n

Request line (http request line), 34 字节                                           分组: 12687 · 已显示: 64 (0.5%)

**multi-threading test**