Bryce Souers

zys135

SUCCESSFUL EXCHANGE

web_server.py

```
webserver — Python web_server.py 1234 — 88×28

[brycesouers@Bryces-MacBook-Air webserver % python3 web_server.py 1234

SERVER >> [SUCCESS]: Socket created and setup successfully.

Ready to serve...

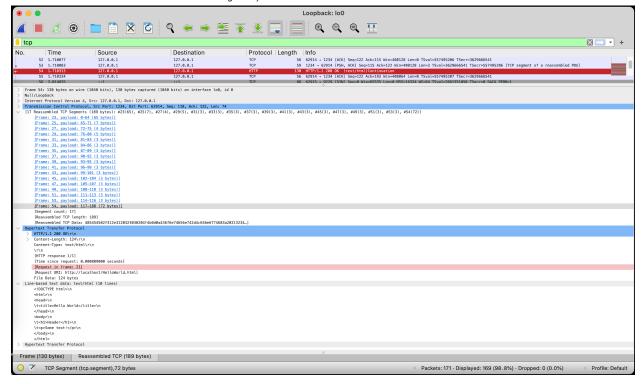
SERVER >> [('127.0.0.1', 62538)]: Connected successfully.

SERVER >> [200 OK] Sent 'HelloWorld.html'.

Ready to serve...
```

web_client.py

This shows a successful request and response from both the server and the client's side. The file requested was 'HelloWorld.html'. The client has been throttled (it only receives 16 bytes at a time and there is a sleep function of 0.1 seconds between each segment). The WireShark view of this interaction is below:



SUCCESSFUL BROWSER REQUEST

web_server.py

```
webserver — Python web_server.py 1234 — 88×28

[brycesouers@Bryces-MacBook-Air webserver % python3 web_server.py 1234

SERVER >> [SUCCESS]: Socket created and setup successfully.

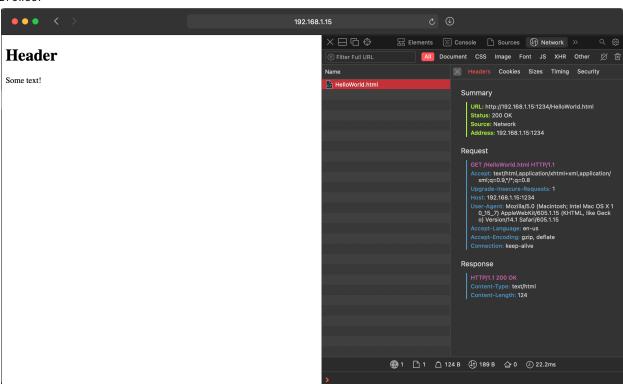
Ready to serve...

SERVER >> [('192.168.1.15', 64515)]: Connected successfully.

SERVER >> [200 OK] Sent 'HelloWorld.html'.

Ready to serve...
```

Browser



NON-EXISTENT FILE REQUEST

web_server.py

```
webserver — Python web_server.py 1234 — 88x28

[brycesouers@Bryces-MacBook-Air webserver % python3 web_server.py 1234

SERVER >> [SUCCESS]: Socket created and setup successfully.

Ready to serve...

SERVER >> [('127.0.0.1', 50748)]: Connected successfully.

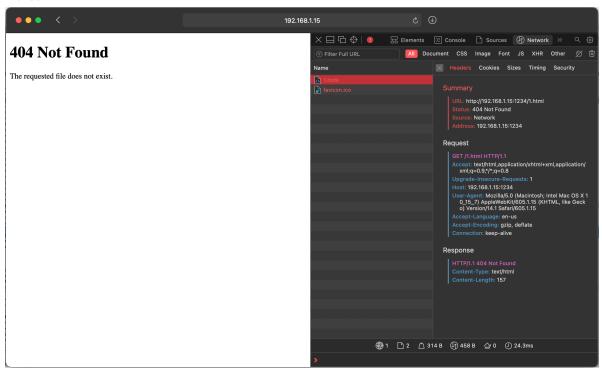
SERVER >> [404 Not Found] '1.html' does not exist.

Ready to serve...
```

web_client.py

```
webserver — -zsh — 88×30
brycesouers@Bryces-MacBook-Air webserver % python3 web_client.py localhost 1234 1.html
-----The client is ready to send------
('127.0.0.1', 50748)-->('127.0.0.1', 1234)
HTTP/1.1 404 Not Found
Content-Length: 157
Content-Type: text/html
<!DOCTYPE html>
<html>
<head>
         <title>404 Not Found</title>
</head>
<body>
         <h1>404 Not Found</h1>
         The requested file does not exist.
</body>
</html>
```

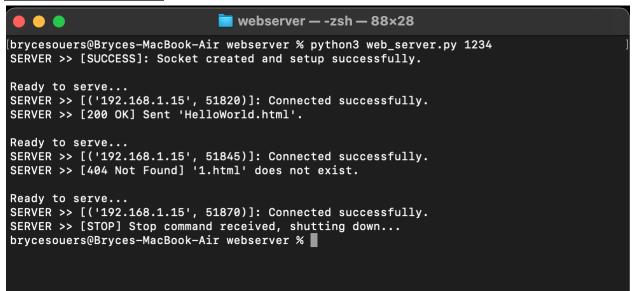
Browser



WEB SERVER KEYBOARD INTERRUPT

```
webserver — -zsh — 88×28
[brycesouers@Bryces-MacBook-Air webserver % python3 web_server.py 1234
SERVER >> [SUCCESS]: Socket created and setup successfully.
Ready to serve...
SERVER >> [('127.0.0.1', 50748)]: Connected successfully.
SERVER >> [404 Not Found] '1.html' does not exist.
Ready to serve...
SERVER >> [('192.168.1.15', 51196)]: Connected successfully.
SERVER >> [404 Not Found] '1.html' does not exist.
Ready to serve...
SERVER >> [('192.168.1.15', 51197)]: Connected successfully.
SERVER >> [404 Not Found] 'favicon.ico' does not exist.
Ready to serve...
^C
SERVER >> [INTERRUPT] Shutting down...
brycesouers@Bryces-MacBook-Air webserver %
```

WEB SERVER "STOP" COMMAND





WEB CLIENT WITH NO SERVER - ERROR HANDLING

webserver — -zsh — 88×30

[brycesouers@Bryces-MacBook-Air webserver % python3 web_client.py localhost 1234 stop CLIENT >> [ERROR]: Socket failed to connect to server.

[Errno 61] Connection refused brycesouers@Bryces-MacBook-Air webserver %