HTTP Response Splitting or CRLF injection

Typical HTTP request:

POST / HTTP/1.1[CRLF] Host: www.example.com[CRLF] User-Agent: Mozilla/5.0[CRLF] Accept: text/html[CRLF] Accept-Language: en-us,en;q=0.5[CRLF] Accept-Encoding: gzip, deflate[CRLF] Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7[CRLF] Connection: keep-alive[CRLF][CRLF]

data=pawpaw

CR - Carriage Return LF - Line Feed

CRLF means end-of-line in HTTP packets CRLF in bytes - %0d%0a or \r\n

Typical HTTP response:

HTTP/1.1 200 OK[CRLF] Host: www.example.com[CRLF] Connection: close[CRLF] X-Powered-By: PHP/5.5.31[CRLF] Content-type: text/html[CRLF][CRLF]

page<h1>content</h1>here

CR - Carriage Return LF - Line Feed

CRLF means end-of-line in HTTP packets CRLF in bytes - %0d%0a or \r\n

What if we can inject in HTTP headers?

GET /?content_type=**text/html** HTTP/1.1 Host: 127.0.0.1:8081

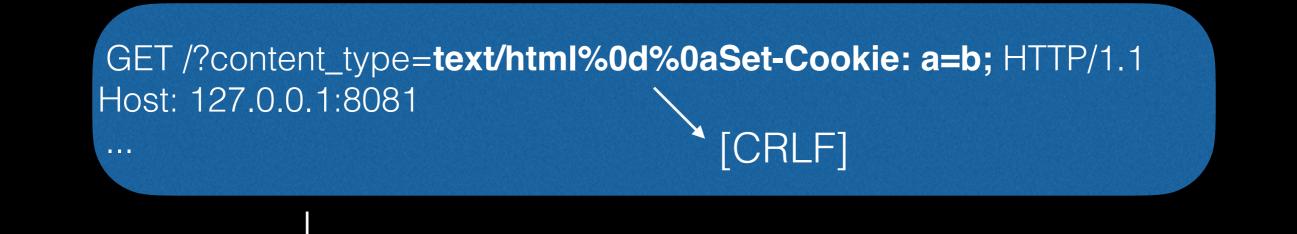
HTTP/1.0 200 OK Server: BaseHTTP/0.3 Python/2.7.11 Content-type: **text/html**

<html>

...

. . .

Modify headers as you wish, add new header, for example:

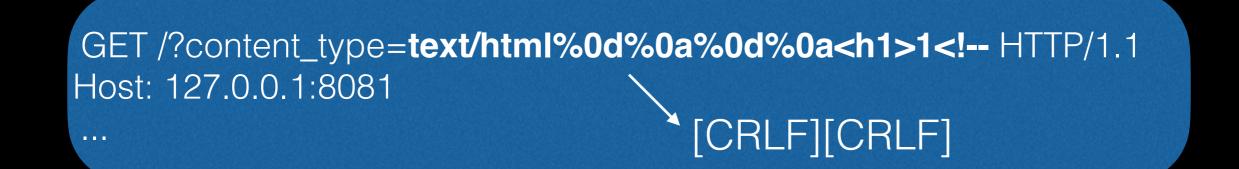


HTTP/1.0 200 OK Server: BaseHTTP/0.3 Python/2.7.11 Content-type: **text/html** Set-Cookie: a=b

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<html>

Just add double [CRLF] to rewrite page content!



HTTP/1.0 200 OK Server: BaseHTTP/0.3 Python/2.7.11 Content-type: **text/html**

<h1>1<!--

<html>

