

Forum:[Hack Forums](#)

Thread: [Keep "Content-Length" from changing on URL Request?](#)

gurlhackerclub - January 28, 2020, 4:09 pm

I want to keep content-length header static, I don't want it to change.

Here is my code-

Code import requests

url = 'http://127.0.0.1'

headers = {

 'User-Agent': 'Mozilla/5.0 (Windows NT 6.1; WOW64; rv:32.0) Gecko/20100101

Firefox/32.0',

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

 'Content-Length': '6',

 'Transfer-Encoding': 'chunked'

}

payload = {'key1': '0\r\n\r\nG'}

if __name__ == '__main__':

 print('your url '+url+'\n')

 try:

 r = requests.post(url, payload, headers=headers)

 print(r.statuscode)

 print(r.text)

 except requests.exceptions.Timeout:

 print('Time Out!\n')

 except requests.exceptions.ConnectionError:

 print('Not Connected \n')

 except requests.exceptions.ReadTimeout:

 print('read timeout\n')

 except requests.exceptions.RequestException as err:

 print(err)

 except:

 print('undetermined error')

Here is output from run. Notice content-length says 19. I want it to stay as 6.

Code ERROR:root:Host: 127.0.0.1

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:32.0) Gecko/20100101 Firefox/32.0

Accept-Encoding: gzip, deflate

Accept: */*

Connection: keep-alive

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

Content-Length: 19

Transfer-Encoding: chunked

Im case you want to know why. I am practicing http port smuggling on portswigger academy. I want to see if I can do port smuggling with python, instead of using burp suite.

Thanks

Ri?dle - January 28, 2020, 4:34 pm

You'll have to prepare the request manually, then remove the generated content-length header:

```
from requests import Request, Session
```

```
Code s = Session()
```

```
req = Request('POST', url, data=data)
```

```
prepped = req.prepare()
```

```
del prepped.headers['content-length']
```

```
response = s.send(prepped)
```

Do note that most compliant HTTP servers may then ignore your post body!

If you meant to use chunked transfer encoding (where you don't have to send a content length), then use a iterator for the data parameter. See Chunked-Encoded Requests in the documentation. No Content-Length header will be set in that case.

source:

<https://stackoverflow.com/questions/27043402/python-requests-remove-the-content-length-header-from-post>

gurlhackerclub - January 29, 2020, 1:48 am

(Jan 28, 2020 05:34 PM)Ri?dle Wrote: [\[CITE\]](#) You'll have to prepare the request manually, then remove the generated content-length header:

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Thanks Riddle, I appreciate your help. Yes, I have to use Chunked Encoding and Content Length in order to do HTTP smuggling. I don't know if I will find this in the wild, but fun to try.

<https://portswigger.net/web-security/request-smuggling>