Forum:Hack Forums

Thread: Raw socket returns raw hexadecimal data?

Infamia - *January 30, 2017, 11:55 am*

I'm not that inclined with raw sockets, so I'm trying to make a browser using them; sounds kind of stupid, but it's a kind of personal journey since [INSERT FEW YEARS AGO THIS AND THIS HAPPENED]. But on my quest I have encountered a discrepancy -- here is my code;

Code
```
from socket import *
headers = ["GET / HTTP/1.1\r\n",\
        "Host: www.evilzone.org\r\n",\
        "User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729)\r\n",\
        "Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n",\
        "Accept-Language: en-us,en;q=0.5\r\n",\
        "Accept-Encoding: gzip,deflate\r\n",\
         "Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7\r\n",\
         "Keep-Alive: 300\r\n",\
         "Connection: keep-alive\r\n",\
         "Pragma: no-cache\r\n",\
         "Cache-Control: no-cache\r\n\r\n"]
a = socket(AF_INET, SOCK_STREAM)
a.connect(("www.evilzone.org", 80))
for x in headers: a.send(x)
buffer_ = a.recv(1024)
print buffer_
```
Not necessarily the prettiest, but here's my problem;

A t and a domino is returned as the supposed-to-be HTML, now I did my Googling; I'm not that contradictory of myself to constantly tell people to Google it and never do so myself -- the closest I got to figuring out what this was is a Stackoverflow/exchange post claiming it's a binary frame of some sort; here's the raw data from the 't/domino' combination;

Code
```
\x1f\x8b\x08\x00\x00\x00\x00\x00\x00\x03\xb3Q\xd4\xd5U\xf0H\xcd\xc9\xc9\xb7W\xd0\xd5\xb5\xe3\xb2\xc9\xccMW(.J\xb6U*\xc9HM\xcdK\xd1+\xc8KW\xb2\xe3\x02\x02\x1b\x90\xca\xf0\x8c\xc4\x12\x88B\xb8\x90\xa7By~^Jj\x91B9PN!\xb3X\x01H\x02\xf5*\x005+\xe4\xa7)$\xe6\xe4\x00\xb9\x99y\xe9\xc5\x10\xf3AZ\xbc=\x83\x83\xe1\x86
L\x8a\x89A(14A\xb0\xf5\xf5\xc1l\x00\xe0Q\xd3\x01\xab\x00\x00\x00
```
Maybe I'm just retarded, but I can't seem to figure out this issue :(

Thanks for any help in advance.

nooelec - *January 30, 2017, 12:25 pm*

Code "Accept-Encoding: gzip,deflate\r\n",

The server is probably returning gzip encoded data in the response, hence the binary shit. Also, that is not a "raw socket", it is a TCP connection you are doing.

Edit: Definitely think it is gzip. The "\x1f\x8b" is indicative of that.

(?°?°)?(???? - *January 30, 2017, 12:27 pm*

(Jan 30, 2017 01:25 PM)nooelec Wrote: [CITE] Code "Accept-Encoding: gzip,deflate\r\n",
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Yeah I think this is right. Your response encoding is messed up.

Infamia - *January 30, 2017, 1:40 pm*

(Jan 30, 2017 01:25 PM)nooelec Wrote: [CITE] Code "Accept-Encoding: gzip,deflate\r\n",
The server is probably returning gzip encoded data in the response, hence the binary shit. Also, that is not a "raw socket", it is a TCP connection you are doing.

Edit: Definitely think it is gzip. The "\x1f\x8b" is indicative of that.
Oooh, alright; thanks. I'll look into it.

YESSS I LOVEE YOU ALLL