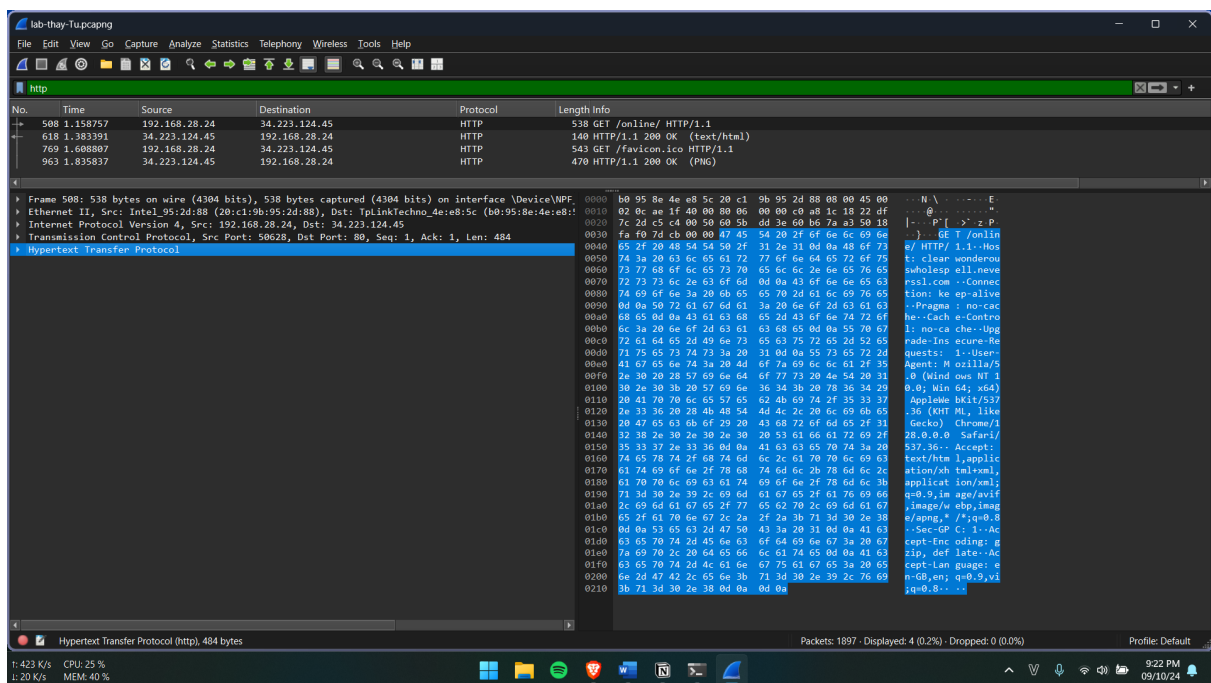


Bài tập thầy Tự - Tuần 3 & 4

Tags

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1. Wireshark



<http://clearwonderouswholespell.neverssl.com/online/>

2. Phân tích các bytes

47 45 54 -> GET

20 -> [SPACE]

2f 6f 6e 6c 69 6e 65 2f -> /online/

20 -> [SPACE]

48 54 54 50 2f 31 2e 31 0d 0a -> HTTP/1.1\r\n

48 6f 73 74 3a 20 63 6c 65 61 72 77 6f 6e 64 65 72 6f 75 73
77 68 6f 6c 65 73 70 65 6c 6c 2e 6e 65 76 65 72 73 73 6c 2e
63 6f 6d 0d 0a

-> Host: clearwonderouswholespell.neverssl.com\r\n

43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69
76 65 0d 0a

-> Connection: keep-alive\r\n

50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 0d 0a

-> Pragma: no-cache\r\n

43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6e 6f 2d 63 61
63 68 65 0d 0a

-> Cache-Control: no-cache\r\n

55 70 67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2d 52 65 71
75 65 73 74 73 3a 20 31 0d 0a

-> Upgrade-Insecure-Requests: 1\r\n

55 73 65 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f
35 2e 30 20 28 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e 30
3b 20 57 69 6e 36 34 3b 20 78 36 34 29 20 41 70 70 6c 65 57
65 62 4b 69 74 2f 35 33 37 2e 33 36 20 28 4b 48 54 4d 4c 2c
20 6c 69 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 6f 6d 65 2f
31 32 38 2e 30 2e 30 2e 30 20 53 61 66 61 72 69 2f 35 33 37
2e 33 36 0d 0a

-> User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) Ap
pleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safar
i/537.36\r\n

41 63 63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c 61 70
70 6c 69 63 61 74 69 6f 6e 2f 78 68 74 6d 6c 2b 78 6d 6c 2c

```

61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 6d 6c 3b 71 3d 30 2e
39 2c 69 6d 61 67 65 2f 61 76 69 66 2c 69 6d 61 67 65 2f 77
65 62 70 2c 69 6d 61 67 65 2f 61 70 6e 67 2c 2a 2f 2a 3b 71
3d 30 2e 38 0d 0a
-> Accept: text/html,application/xhtml+xml,application/xml;
q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8\r\n

53 65 63 2d 47 50 43 3a 20 31 0d 0a
-> Sec-GPC: 1\r\n

41 63 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 7a 69
70 2c 20 64 65 66 6c 61 74 65 0d 0a
-> Accept-Encoding: gzip, deflate\r\n

41 63 63 65 70 74 2d 4c 61 6e 67 75 61 67 65 3a 20 65 6e 2d
47 42 2c 65 6e 3b 71 3d 30 2e 39 2c 76 69 3b 71 3d 30 2e 38
0d 0a
-> Accept-Language: en-GB,en;q=0.9,vi;q=0.8\r\n

0d 0a
-> \r\n

```

3. Phân tích các request

3.1. HTTP

| <https://jsonplaceholder.typicode.com/>

3.1.1. GET

```
$ curl -vvv --trace request_get.txt http://jsonplaceholder.
typicode.com/posts/1
```

```
{
  "userId": 1,
  "id": 1,
```

```

    "title": "sunt aut facere repellat provident occaecati ex
cepturi optio reprehenderit",
    "body": "quia et suscipit\nsuscipit recusandae consequunt
ur expedita et cum\nreprehenderit molestiae ut ut quas tota
m\nnostrum rerum est autem sunt rem eveniet architecto"
}

```

- **request_get.txt**

```

== Info: Host jsonplaceholder.typicode.com:80 was resolv
ed.
== Info: IPv6: (none)
== Info: IPv4: 172.67.167.151, 104.21.59.19
== Info:   Trying 172.67.167.151:80...
== Info: Connected to jsonplaceholder.typicode.com (172.
67.167.151) port 80
=> Send header, 98 bytes (0x62)
0000: 47 45 54 20 2f 70 6f 73 74 73 2f 31 20 48 54 54 GE
T /posts/1 HTT
0010: 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 6a 73 6f P/
1.1..Host: jso
0020: 6e 70 6c 61 63 65 68 6f 6c 64 65 72 2e 74 79 70 np
laceholder.typ
0030: 69 63 6f 64 65 2e 63 6f 6d 0d 0a 55 73 65 72 2d ic
ode.com..User-
0040: 41 67 65 6e 74 3a 20 63 75 72 6c 2f 38 2e 39 2e Ag
ent: curl/8.9.
0050: 31 0d 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a
1..Accept: */*..
0060: 0d 0a                                     ..
== Info: Request completely sent off
<= Recv header, 17 bytes (0x11)
0000: 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HT
TP/1.1 200 OK.
0010: 0a                                     .
<= Recv header, 37 bytes (0x25)
0000: 44 61 74 65 3a 20 57 65 64 2c 20 30 39 20 4f 63 Da
te: Wed, 09 Oc

```

```

0010: 74 20 32 30 32 34 20 31 36 3a 31 35 3a 35 36 20 t
2024 16:15:56
0020: 47 4d 54 0d 0a GM
T..
<= Recv header, 47 bytes (0x2f)
0000: 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 Co
ntent-Type: ap
0010: 70 6c 69 63 61 74 69 6f 6e 2f 6a 73 6f 6e 3b 20 pl
ication/json;
0020: 63 68 61 72 73 65 74 3d 75 74 66 2d 38 0d 0a ch
arset=utf-8..
<= Recv header, 21 bytes (0x15)
0000: 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Co
ntent-Length:
0010: 32 39 32 0d 0a 29
2..
<= Recv header, 24 bytes (0x18)
0000: 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Co
nnection: keep
0010: 2d 61 6c 69 76 65 0d 0a -a
live..
<= Recv header, 211 bytes (0xd3)
0000: 52 65 70 6f 72 74 2d 54 6f 3a 20 7b 22 67 72 6f Re
port-To: {"gro
0010: 75 70 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 u
p":"heroku-nel"
0020: 2c 22 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c
,"max_age":3600,
0030: 22 65 6e 64 70 6f 69 6e 74 73 22 3a 5b 7b 22 75 "e
ndpoints":[{"u
0040: 72 6c 22 3a 22 68 74 74 70 73 3a 2f 2f 6e 65 6c r
l":"https://nel
0050: 2e 68 65 72 6f 6b 75 2e 63 6f 6d 2f 72 65 70 6f .h
eroku.com/repo
0060: 72 74 73 3f 74 73 3d 31 37 32 38 34 39 30 35 35 rt
s?ts=172849055
0070: 35 26 73 69 64 3d 65 31 31 37 30 37 64 35 2d 30 5&
sid=e11707d5-0

```

```

0080: 32 61 37 2d 34 33 65 66 2d 62 34 35 65 2d 32 63 2a
7-43ef-b45e-2c
0090: 66 34 64 32 30 33 36 66 37 64 26 73 3d 32 44 39 f4
d2036f7d&s=2D9
00a0: 64 7a 68 36 44 30 78 68 34 33 79 48 7a 35 73 61 dz
h6D0xh43yHz5sa
00b0: 25 32 46 67 4e 49 50 77 59 62 64 50 58 54 73 4e %2
FgNIPwYbdPXTsN
00c0: 70 5a 6d 41 31 50 57 31 5a 73 25 33 44 22 7d 5d pZ
mA1PW1Zs%3D"}]
00d0: 7d 0d 0a
}..
<= Recv header, 170 bytes (0xaa)
0000: 52 65 70 6f 72 74 69 6e 67 2d 45 6e 64 70 6f 69 Re
porting-Endpoi
0010: 6e 74 73 3a 20 68 65 72 6f 6b 75 2d 6e 65 6c 3d nt
s: heroku-nel=
0020: 68 74 74 70 73 3a 2f 2f 6e 65 6c 2e 68 65 72 6f ht
tps://nel.hero
0030: 6b 75 2e 63 6f 6d 2f 72 65 70 6f 72 74 73 3f 74 k
u.com/reports?t
0040: 73 3d 31 37 32 38 34 39 30 35 35 35 26 73 69 64 s=
1728490555&sid
0050: 3d 65 31 31 37 30 37 64 35 2d 30 32 61 37 2d 34 =e
11707d5-02a7-4
0060: 33 65 66 2d 62 34 35 65 2d 32 63 66 34 64 32 30 3e
f-b45e-2cf4d20
0070: 33 36 66 37 64 26 73 3d 32 44 39 64 7a 68 36 44 36
f7d&s=2D9dzh6D
0080: 30 78 68 34 33 79 48 7a 35 73 61 25 32 46 67 4e 0x
h43yHz5sa%2FgN
0090: 49 50 77 59 62 64 50 58 54 73 4e 70 5a 6d 41 31 IP
wYbdPXTsNpZmA1
00a0: 50 57 31 5a 73 25 33 44 0d 0a PW
1Zs%3D..
<= Recv header, 124 bytes (0x7c)
0000: 4e 65 6c 3a 20 7b 22 72 65 70 6f 72 74 5f 74 6f Ne
l: {"report_to

```

```

0010: 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 2c 22
": "heroku-nel", "
0020: 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c 22 73 ma
x_age": 3600, "s
0030: 75 63 63 65 73 73 5f 66 72 61 63 74 69 6f 6e 22 uc
cess_fraction"
0040: 3a 30 2e 30 30 35 2c 22 66 61 69 6c 75 72 65 5f :
0.005, "failure_
0050: 66 72 61 63 74 69 6f 6e 22 3a 30 2e 30 35 2c 22 fr
action": 0.05, "
0060: 72 65 73 70 6f 6e 73 65 5f 68 65 61 64 65 72 73 re
sponse_headers
0070: 22 3a 5b 22 56 69 61 22 5d 7d 0d 0a          ":
["Via"]}..
<= Recv header, 23 bytes (0x17)
0000: 58 2d 50 6f 77 65 72 65 64 2d 42 79 3a 20 45 78 X-
Powered-By: Ex
0010: 70 72 65 73 73 0d 0a          pr
ess..
<= Recv header, 25 bytes (0x19)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 4c 69 6d 69 X-
Ratelimit-Limi
0010: 74 3a 20 31 30 30 30 0d 0a          t:
1000..
<= Recv header, 28 bytes (0x1c)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 6d 61 X-
Ratelimit-Rema
0010: 69 6e 69 6e 67 3a 20 39 39 39 0d 0a          in
ing: 999..
<= Recv header, 31 bytes (0x1f)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 73 65 X-
Ratelimit-Rese
0010: 74 3a 20 31 37 32 38 34 39 30 36 30 39 0d 0a          t:
1728490609..
<= Recv header, 31 bytes (0x1f)
0000: 56 61 72 79 3a 20 4f 72 69 67 69 6e 2c 20 41 63 Va
ry: Origin, Ac
0010: 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 0d 0a          ce

```

```

pt-Encoding..
<= Recv header, 40 bytes (0x28)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 Ac
cess-Control-A
0010: 6c 6c 6f 77 2d 43 72 65 64 65 6e 74 69 61 6c 73 ll
ow-Credentials
0020: 3a 20 74 72 75 65 0d 0a                                :
true..
<= Recv header, 30 bytes (0x1e)
0000: 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6d Ca
che-Control: m
0010: 61 78 2d 61 67 65 3d 34 33 32 30 30 0d 0a            ax
-age=43200..
<= Recv header, 18 bytes (0x12)
0000: 50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 Pr
agma: no-cache
0010: 0d 0a                                                    ..
<= Recv header, 13 bytes (0xd)
0000: 45 78 70 69 72 65 73 3a 20 2d 31 0d 0a                Ex
pires: -1..
<= Recv header, 33 bytes (0x21)
0000: 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 70 65 2d 4f X-
Content-Type-0
0010: 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e 69 66 66 0d pt
ions: nosniff.
0020: 0a                                                        .
<= Recv header, 43 bytes (0x2b)
0000: 45 74 61 67 3a 20 57 2f 22 31 32 34 2d 79 69 4b Et
ag: W/"124-yiK
0010: 64 4c 7a 71 4f 35 67 66 42 72 4a 46 72 63 64 4a dL
zq05gfBrJFrcdJ
0020: 38 59 71 30 4c 47 6e 55 22 0d 0a                        8Y
q0LGnU"..
<= Recv header, 16 bytes (0x10)
0000: 56 69 61 3a 20 31 2e 31 20 76 65 67 75 72 0d 0a Vi
a: 1.1 vegur..
<= Recv header, 23 bytes (0x17)
0000: 43 46 2d 43 61 63 68 65 2d 53 74 61 74 75 73 3a CF

```



```

-Cache-Status:
0010: 20 4d 49 53 53 0d 0a M
ISS..
<= Recv header, 22 bytes (0x16)
0000: 41 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 Ac
cept-Ranges: b
0010: 79 74 65 73 0d 0a yt
es..
<= Recv header, 20 bytes (0x14)
0000: 53 65 72 76 65 72 3a 20 63 6c 6f 75 64 66 6c 61 Se
rver: cloudfla
0010: 72 65 0d 0a r
e..
<= Recv header, 30 bytes (0x1e)
0000: 43 46 2d 52 41 59 3a 20 38 63 66 66 61 63 31 34 CF
-RAY: 8cffac14
0010: 32 61 34 35 30 35 30 36 2d 48 4b 47 0d 0a 2a
450506-HKG..
<= Recv header, 30 bytes (0x1e)
0000: 61 6c 74 2d 73 76 63 3a 20 68 33 3d 22 3a 34 34 al
t-svc: h3=":44
0010: 33 22 3b 20 6d 61 3d 38 36 34 30 30 0d 0a
3"; ma=86400..
<= Recv header, 2 bytes (0x2)
0000: 0d 0a ..
<= Recv data, 292 bytes (0x124)
0000: 7b 0a 20 20 22 75 73 65 72 49 64 22 3a 20 31 2c {.
"userId": 1,
0010: 0a 20 20 22 69 64 22 3a 20 31 2c 0a 20 20 22 74 .
"id": 1,. "t
0020: 69 74 6c 65 22 3a 20 22 73 75 6e 74 20 61 75 74 it
le": "sunt aut
0030: 20 66 61 63 65 72 65 20 72 65 70 65 6c 6c 61 74 f
acere repellat
0040: 20 70 72 6f 76 69 64 65 6e 74 20 6f 63 63 61 65 p
rovident occae
0050: 63 61 74 69 20 65 78 63 65 70 74 75 72 69 20 6f ca
ti excepturi o

```

```

0060: 70 74 69 6f 20 72 65 70 72 65 68 65 6e 64 65 72 pt
io reprehender
0070: 69 74 22 2c 0a 20 20 22 62 6f 64 79 22 3a 20 22 i
t",. "body": "
0080: 71 75 69 61 20 65 74 20 73 75 73 63 69 70 69 74 qu
ia et suscipit
0090: 5c 6e 73 75 73 63 69 70 69 74 20 72 65 63 75 73 \n
suscipit recus
00a0: 61 6e 64 61 65 20 63 6f 6e 73 65 71 75 75 6e 74 an
dae consequunt
00b0: 75 72 20 65 78 70 65 64 69 74 61 20 65 74 20 63 ur
expedita et c
00c0: 75 6d 5c 6e 72 65 70 72 65 68 65 6e 64 65 72 69 um
\nreprehenderi
00d0: 74 20 6d 6f 6c 65 73 74 69 61 65 20 75 74 20 75 t
molestiae ut u
00e0: 74 20 71 75 61 73 20 74 6f 74 61 6d 5c 6e 6e 6f t
quas totam\nno
00f0: 73 74 72 75 6d 20 72 65 72 75 6d 20 65 73 74 20 st
rum rerum est
0100: 61 75 74 65 6d 20 73 75 6e 74 20 72 65 6d 20 65 au
tem sunt rem e
0110: 76 65 6e 69 65 74 20 61 72 63 68 69 74 65 63 74 ve
niet architect
0120: 6f 22 0a 7d
o".}
== Info: Connection #0 to host jsonplaceholder.typicode.
com left intact

```

- Giải thích

1. Giải domain jsonplaceholder.typicode.com:80 thành IP

- IPv6: Mạng hiện tại không hỗ trợ
- IPv4: 172.67.167.151, 104.21.59.19

2. Gửi request đến 172.67.167.151

3. Nhận data trả về

3.1.2. POST

```
$ curl -X POST --data "title=foo" --data "body=bar" --data "userId=1" --trace request_post.txt --header "application/json; charset=UTF-8" "http://jsonplaceholder.typicode.com/posts"
```

```
{
  "title": "foo",
  "body": "bar",
  "userId": "1",
  "id": 101
}
```

- **request_post.txt**

```
== Info: Host jsonplaceholder.typicode.com:80 was resolved.
== Info: IPv6: (none)
== Info: IPv4: 172.67.167.151, 104.21.59.19
== Info: Trying 172.67.167.151:80...
== Info: Connected to jsonplaceholder.typicode.com (172.67.167.151) port 80
=> Send header, 166 bytes (0xa6)
0000: 50 4f 53 54 20 2f 70 6f 73 74 73 20 48 54 54 50 P
0010: 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 6a 73 6f 6e /
0020: 70 6c 61 63 65 68 6f 6c 64 65 72 2e 74 79 70 69 p
0030: 63 6f 64 65 2e 63 6f 6d 0d 0a 55 73 65 72 2d 41 c
0040: 67 65 6e 74 3a 20 63 75 72 6c 2f 38 2e 39 2e 31 g
0050: 0d 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a 43 ..
0060: 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 32 o
tent-Length: 2
```

```

0070: 37 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a
7..Content-Type:
0080: 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 2d 77  a
pplication/x-w
0090: 77 77 2d 66 6f 72 6d 2d 75 72 6c 65 6e 63 6f 64 ww
-form-urlencoded
00a0: 65 64 0d 0a 0d 0a                                     e
d....
=> Send data, 27 bytes (0x1b)
0000: 74 69 74 6c 65 3d 66 6f 6f 26 62 6f 64 79 3d 62 ti
tle=foo&body=b
0010: 61 72 26 75 73 65 72 49 64 3d 31                      ar
&userId=1
== Info: upload completely sent off: 27 bytes
<= Recv header, 22 bytes (0x16)
0000: 48 54 54 50 2f 31 2e 31 20 32 30 31 20 43 72 65 HT
TP/1.1 201 Cre
0010: 61 74 65 64 0d 0a                                     at
ed..
<= Recv header, 37 bytes (0x25)
0000: 44 61 74 65 3a 20 57 65 64 2c 20 30 39 20 4f 63 Da
te: Wed, 09 Oc
0010: 74 20 32 30 32 34 20 31 36 3a 34 30 3a 34 37 20 t
2024 16:40:47
0020: 47 4d 54 0d 0a                                     GM
T..
<= Recv header, 47 bytes (0x2f)
0000: 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 Co
ntent-Type: ap
0010: 70 6c 69 63 61 74 69 6f 6e 2f 6a 73 6f 6e 3b 20 pl
ication/json;
0020: 63 68 61 72 73 65 74 3d 75 74 66 2d 38 0d 0a      ch
arset=utf-8..
<= Recv header, 20 bytes (0x14)
0000: 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Co
ntent-Length:
0010: 36 37 0d 0a                                     6
7..

```

```

<= Recv header, 24 bytes (0x18)
0000: 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Co
nnection: keep
0010: 2d 61 6c 69 76 65 0d 0a                                -a
live..
<= Recv header, 213 bytes (0xd5)
0000: 52 65 70 6f 72 74 2d 54 6f 3a 20 7b 22 67 72 6f Re
port-To: {"gro
0010: 75 70 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 u
p":"heroku-nel"
0020: 2c 22 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c
,"max_age":3600,
0030: 22 65 6e 64 70 6f 69 6e 74 73 22 3a 5b 7b 22 75 "e
ndpoints":[{"u
0040: 72 6c 22 3a 22 68 74 74 70 73 3a 2f 2f 6e 65 6c r
l":"https://nel
0050: 2e 68 65 72 6f 6b 75 2e 63 6f 6d 2f 72 65 70 6f .h
eroku.com/repo
0060: 72 74 73 3f 74 73 3d 31 37 32 38 34 39 32 30 34 rt
s?ts=172849204
0070: 37 26 73 69 64 3d 65 31 31 37 30 37 64 35 2d 30 7&
sid=e11707d5-0
0080: 32 61 37 2d 34 33 65 66 2d 62 34 35 65 2d 32 63 2a
7-43ef-b45e-2c
0090: 66 34 64 32 30 33 36 66 37 64 26 73 3d 59 46 6d f4
d2036f7d&s=YFm
00a0: 25 32 46 73 78 68 77 48 34 70 39 57 53 54 4c 5a %2
Fsxhwh4p9WSTLZ
00b0: 45 59 76 67 33 7a 33 30 69 6f 63 4a 32 46 68 72 EY
vg3z30iocJ2Fhr
00c0: 50 43 25 32 46 74 46 55 31 33 50 51 25 33 44 22 P
C%2FtFU13PQ%3D"
00d0: 7d 5d 7d 0d 0a
}}}.
<= Recv header, 172 bytes (0xac)
0000: 52 65 70 6f 72 74 69 6e 67 2d 45 6e 64 70 6f 69 Re
porting-Endpoi
0010: 6e 74 73 3a 20 68 65 72 6f 6b 75 2d 6e 65 6c 3d nt

```

```

s: heroku-nel=
0020: 68 74 74 70 73 3a 2f 2f 6e 65 6c 2e 68 65 72 6f ht
tps://nel.hero
0030: 6b 75 2e 63 6f 6d 2f 72 65 70 6f 72 74 73 3f 74 k
u.com/reports?t
0040: 73 3d 31 37 32 38 34 39 32 30 34 37 26 73 69 64 s=
1728492047&sid
0050: 3d 65 31 31 37 30 37 64 35 2d 30 32 61 37 2d 34 =e
11707d5-02a7-4
0060: 33 65 66 2d 62 34 35 65 2d 32 63 66 34 64 32 30 3e
f-b45e-2cf4d20
0070: 33 36 66 37 64 26 73 3d 59 46 6d 25 32 46 73 78 36
f7d&s=YFm%2Fsx
0080: 68 77 48 34 70 39 57 53 54 4c 5a 45 59 76 67 33 hw
H4p9WSTLZEYvg3
0090: 7a 33 30 69 6f 63 4a 32 46 68 72 50 43 25 32 46 z3
0iocJ2FhrPC%2F
00a0: 74 46 55 31 33 50 51 25 33 44 0d 0a tF
U13PQ%3D..
<= Recv header, 124 bytes (0x7c)
0000: 4e 65 6c 3a 20 7b 22 72 65 70 6f 72 74 5f 74 6f Ne
l: {"report_to
0010: 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 2c 22
": "heroku-nel", "
0020: 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c 22 73 ma
x_age": 3600, "s
0030: 75 63 63 65 73 73 5f 66 72 61 63 74 69 6f 6e 22 uc
cess_fraction"
0040: 3a 30 2e 30 30 35 2c 22 66 61 69 6c 75 72 65 5f :
0.005, "failure_
0050: 66 72 61 63 74 69 6f 6e 22 3a 30 2e 30 35 2c 22 fr
action": 0.05, "
0060: 72 65 73 70 6f 6e 73 65 5f 68 65 61 64 65 72 73 re
sponse_headers
0070: 22 3a 5b 22 56 69 61 22 5d 7d 0d 0a ":
["Via"]}..
<= Recv header, 23 bytes (0x17)
0000: 58 2d 50 6f 77 65 72 65 64 2d 42 79 3a 20 45 78 X-

```

```

Powered-By: Ex
0010: 70 72 65 73 73 0d 0a                                pr
ess..
<= Recv header, 25 bytes (0x19)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 4c 69 6d 69 X-
Ratelimit-Limi
0010: 74 3a 20 31 30 30 30 0d 0a                                t:
1000..
<= Recv header, 28 bytes (0x1c)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 6d 61 X-
Ratelimit-Rema
0010: 69 6e 69 6e 67 3a 20 39 39 38 0d 0a                                in
ing: 998..
<= Recv header, 31 bytes (0x1f)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 73 65 X-
Ratelimit-Rese
0010: 74 3a 20 31 37 32 38 34 39 32 30 34 39 0d 0a            t:
1728492049..
<= Recv header, 55 bytes (0x37)
0000: 56 61 72 79 3a 20 4f 72 69 67 69 6e 2c 20 58 2d Va
ry: Origin, X-
0010: 48 54 54 50 2d 4d 65 74 68 6f 64 2d 4f 76 65 72 HT
TP-Method-Over
0020: 72 69 64 65 2c 20 41 63 63 65 70 74 2d 45 6e 63 ri
de, Accept-Enc
0030: 6f 64 69 6e 67 0d 0a                                od
ing..
<= Recv header, 40 bytes (0x28)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 Ac
cess-Control-A
0010: 6c 6c 6f 77 2d 43 72 65 64 65 6e 74 69 61 6c 73 ll
ow-Credentials
0020: 3a 20 74 72 75 65 0d 0a                                :
true..
<= Recv header, 25 bytes (0x19)
0000: 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6e Ca
che-Control: n
0010: 6f 2d 63 61 63 68 65 0d 0a                                o-

```

```

cache..
<= Recv header, 18 bytes (0x12)
0000: 50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 Pr
agma: no-cache
0010: 0d 0a ..
<= Recv header, 13 bytes (0xd)
0000: 45 78 70 69 72 65 73 3a 20 2d 31 0d 0a Ex
pires: -1..
<= Recv header, 41 bytes (0x29)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 45 Ac
cess-Control-E
0010: 78 70 6f 73 65 2d 48 65 61 64 65 72 73 3a 20 4c xp
ose-Headers: L
0020: 6f 63 61 74 69 6f 6e 0d 0a oc
ation..
<= Recv header, 57 bytes (0x39)
0000: 4c 6f 63 61 74 69 6f 6e 3a 20 68 74 74 70 3a 2f Lo
cation: http:/
0010: 2f 6a 73 6f 6e 70 6c 61 63 65 68 6f 6c 64 65 72 /j
sonplaceholder
0020: 2e 74 79 70 69 63 6f 64 65 2e 63 6f 6d 2f 70 6f .t
ypicode.com/po
0030: 73 74 73 2f 31 30 31 0d 0a st
s/101..
<= Recv header, 33 bytes (0x21)
0000: 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 70 65 2d 4f X-
Content-Type-0
0010: 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e 69 66 66 0d pt
ions: nosniff.
0020: 0a .
<= Recv header, 42 bytes (0x2a)
0000: 45 74 61 67 3a 20 57 2f 22 34 33 2d 65 30 55 76 Et
ag: W/"43-e0Uv
0010: 4e 65 58 74 68 2b 36 2b 30 36 55 46 4e 6e 47 49 Ne
Xth+6+06UFNnGI
0020: 56 55 4f 6c 41 63 77 22 0d 0a VU
OlAcw"..
<= Recv header, 16 bytes (0x10)

```



```

0000: 56 69 61 3a 20 31 2e 31 20 76 65 67 75 72 0d 0a Vi
a: 1.1 vegur..
<= Recv header, 26 bytes (0x1a)
0000: 63 66 2d 63 61 63 68 65 2d 73 74 61 74 75 73 3a cf
-cache-status:
0010: 20 44 59 4e 41 4d 49 43 0d 0a                                D
YNAMIC..
<= Recv header, 20 bytes (0x14)
0000: 53 65 72 76 65 72 3a 20 63 6c 6f 75 64 66 6c 61 Se
rver: cloudfla
0010: 72 65 0d 0a                                                    r
e..
<= Recv header, 30 bytes (0x1e)
0000: 43 46 2d 52 41 59 3a 20 38 63 66 66 64 30 37 65 CF
-RAY: 8cffd07e
0010: 32 61 63 62 30 34 35 32 2d 48 4b 47 0d 0a                2a
cb0452-HKG..
<= Recv header, 30 bytes (0x1e)
0000: 61 6c 74 2d 73 76 63 3a 20 68 33 3d 22 3a 34 34 al
t-svc: h3=":44
0010: 33 22 3b 20 6d 61 3d 38 36 34 30 30 0d 0a
3"; ma=86400..
<= Recv header, 2 bytes (0x2)
0000: 0d 0a                                                            ..
<= Recv data, 67 bytes (0x43)
0000: 7b 0a 20 20 22 74 69 74 6c 65 22 3a 20 22 66 6f {.
"title": "fo
0010: 6f 22 2c 0a 20 20 22 62 6f 64 79 22 3a 20 22 62
o",. "body": "b
0020: 61 72 22 2c 0a 20 20 22 75 73 65 72 49 64 22 3a a
r",. "userId":
0030: 20 22 31 22 2c 0a 20 20 22 69 64 22 3a 20 31 30
"1",. "id": 10
0040: 31 0a 7d
1.}
== Info: Connection #0 to host jsonplaceholder.typicode.
com left intact

```

3.1.3. PUT

```
$ curl -X PUT --data "id=1" --data "title=foo" --data "body=bar" --data "userId=1" --trace request_put.txt --header "application/json; charset=UTF-8" "http://jsonplaceholder.typicode.com/posts/1"
```

```
{
  "id": 1,
  "title": "foo",
  "body": "bar",
  "userId": "1"
}
```

- **request_put.txt**

```
== Info: Host jsonplaceholder.typicode.com:80 was resolved.
== Info: IPv6: (none)
== Info: IPv4: 104.21.59.19, 172.67.167.151
== Info:   Trying 104.21.59.19:80...
== Info: Connected to jsonplaceholder.typicode.com (104.21.59.19) port 80
=> Send header, 167 bytes (0xa7)
0000: 50 55 54 20 2f 70 6f 73 74 73 2f 31 20 48 54 54 PUT /posts/1 HTTP/1.1..Host: jsonplaceholder.typicode.com..User-Agent: curl/8.9.1..Accept: */*..Content-Length:
```

```

0070: 33 32 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3
2..Content-Type
0080: 3a 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 2d :
application/x-
0090: 77 77 77 2d 66 6f 72 6d 2d 75 72 6c 65 6e 63 6f ww
w-form-urlencoded
00a0: 64 65 64 0d 0a 0d 0a                                de
d....
=> Send data, 32 bytes (0x20)
0000: 69 64 3d 31 26 74 69 74 6c 65 3d 66 6f 6f 26 62 id
=1&title=foo&b
0010: 6f 64 79 3d 62 61 72 26 75 73 65 72 49 64 3d 31 od
y=bar&userId=1
== Info: upload completely sent off: 32 bytes
<= Recv header, 17 bytes (0x11)
0000: 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HT
TP/1.1 200 OK.
0010: 0a                                                    .
<= Recv header, 37 bytes (0x25)
0000: 44 61 74 65 3a 20 57 65 64 2c 20 30 39 20 4f 63 Da
te: Wed, 09 Oc
0010: 74 20 32 30 32 34 20 31 36 3a 34 38 3a 33 32 20 t
2024 16:48:32
0020: 47 4d 54 0d 0a                                GM
T..
<= Recv header, 47 bytes (0x2f)
0000: 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 Co
ntent-Type: ap
0010: 70 6c 69 63 61 74 69 6f 6e 2f 6a 73 6f 6e 3b 20 pl
ication/json;
0020: 63 68 61 72 73 65 74 3d 75 74 66 2d 38 0d 0a      ch
arset=utf-8..
<= Recv header, 20 bytes (0x14)
0000: 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Co
ntent-Length:
0010: 36 35 0d 0a                                6
5..
<= Recv header, 24 bytes (0x18)

```

```

0000: 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Co
nnection: keep
0010: 2d 61 6c 69 76 65 0d 0a                                -a
live..
<= Recv header, 211 bytes (0xd3)
0000: 52 65 70 6f 72 74 2d 54 6f 3a 20 7b 22 67 72 6f Re
port-To: {"gro
0010: 75 70 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 u
p":"heroku-nel"
0020: 2c 22 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c
,"max_age":3600,
0030: 22 65 6e 64 70 6f 69 6e 74 73 22 3a 5b 7b 22 75 "e
ndpoints":[{"u
0040: 72 6c 22 3a 22 68 74 74 70 73 3a 2f 2f 6e 65 6c r
l":"https://nel
0050: 2e 68 65 72 6f 6b 75 2e 63 6f 6d 2f 72 65 70 6f .h
eroku.com/repo
0060: 72 74 73 3f 74 73 3d 31 37 32 38 34 39 32 35 31 rt
s?ts=172849251
0070: 32 26 73 69 64 3d 65 31 31 37 30 37 64 35 2d 30 2&
sid=e11707d5-0
0080: 32 61 37 2d 34 33 65 66 2d 62 34 35 65 2d 32 63 2a
7-43ef-b45e-2c
0090: 66 34 64 32 30 33 36 66 37 64 26 73 3d 44 42 66 f4
d2036f7d&s=DBf
00a0: 42 39 30 77 74 33 48 41 67 37 38 71 69 32 32 63 B9
0wt3HAg78qi22c
00b0: 25 32 42 56 42 31 46 58 43 59 6c 44 35 61 74 75 %2
BVB1FXCYlD5atu
00c0: 4a 33 33 42 43 6c 47 4e 49 51 25 33 44 22 7d 5d J3
3BClGNIQ%3D"}]]
00d0: 7d 0d 0a
}..
<= Recv header, 170 bytes (0xaa)
0000: 52 65 70 6f 72 74 69 6e 67 2d 45 6e 64 70 6f 69 Re
porting-Endpoi
0010: 6e 74 73 3a 20 68 65 72 6f 6b 75 2d 6e 65 6c 3d nt
s: heroku-nel=

```

```

0020: 68 74 74 70 73 3a 2f 2f 6e 65 6c 2e 68 65 72 6f ht
tps://nel.hero
0030: 6b 75 2e 63 6f 6d 2f 72 65 70 6f 72 74 73 3f 74 k
u.com/reports?t
0040: 73 3d 31 37 32 38 34 39 32 35 31 32 26 73 69 64 s=
1728492512&sid
0050: 3d 65 31 31 37 30 37 64 35 2d 30 32 61 37 2d 34 =e
11707d5-02a7-4
0060: 33 65 66 2d 62 34 35 65 2d 32 63 66 34 64 32 30 3e
f-b45e-2cf4d20
0070: 33 36 66 37 64 26 73 3d 44 42 66 42 39 30 77 74 36
f7d&s=DBfB90wt
0080: 33 48 41 67 37 38 71 69 32 32 63 25 32 42 56 42 3H
Ag78qi22c%2BVB
0090: 31 46 58 43 59 6c 44 35 61 74 75 4a 33 33 42 43 1F
XCYlD5atuJ33BC
00a0: 6c 47 4e 49 51 25 33 44 0d 0a lg
NIQ%3D..
<= Recv header, 124 bytes (0x7c)
0000: 4e 65 6c 3a 20 7b 22 72 65 70 6f 72 74 5f 74 6f Ne
l: {"report_to
0010: 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 2c 22
": "heroku-nel", "
0020: 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c 22 73 ma
x_age": 3600, "s
0030: 75 63 63 65 73 73 5f 66 72 61 63 74 69 6f 6e 22 uc
cess_fraction"
0040: 3a 30 2e 30 30 35 2c 22 66 61 69 6c 75 72 65 5f :
0.005, "failure_
0050: 66 72 61 63 74 69 6f 6e 22 3a 30 2e 30 35 2c 22 fr
action": 0.05, "
0060: 72 65 73 70 6f 6e 73 65 5f 68 65 61 64 65 72 73 re
sponse_headers
0070: 22 3a 5b 22 56 69 61 22 5d 7d 0d 0a ":
["Via"]}..
<= Recv header, 23 bytes (0x17)
0000: 58 2d 50 6f 77 65 72 65 64 2d 42 79 3a 20 45 78 X-
Powered-By: Ex

```

```

0010: 70 72 65 73 73 0d 0a                                pr
ess..
<= Recv header, 25 bytes (0x19)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 4c 69 6d 69 X-
Ratelimit-Limi
0010: 74 3a 20 31 30 30 30 0d 0a                                t:
1000..
<= Recv header, 28 bytes (0x1c)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 6d 61 X-
Ratelimit-Rema
0010: 69 6e 69 6e 67 3a 20 39 39 39 0d 0a                                in
ing: 999..
<= Recv header, 31 bytes (0x1f)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 73 65 X-
Ratelimit-Rese
0010: 74 3a 20 31 37 32 38 34 39 32 35 32 39 0d 0a            t:
1728492529..
<= Recv header, 31 bytes (0x1f)
0000: 56 61 72 79 3a 20 4f 72 69 67 69 6e 2c 20 41 63 Va
ry: Origin, Ac
0010: 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 0d 0a            ce
pt-Encoding..
<= Recv header, 40 bytes (0x28)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 Ac
cess-Control-A
0010: 6c 6c 6f 77 2d 43 72 65 64 65 6e 74 69 61 6c 73 ll
ow-Credentials
0020: 3a 20 74 72 75 65 0d 0a                                :
true..
<= Recv header, 25 bytes (0x19)
0000: 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6e Ca
che-Control: n
0010: 6f 2d 63 61 63 68 65 0d 0a                                o-
cache..
<= Recv header, 18 bytes (0x12)
0000: 50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 Pr
agma: no-cache
0010: 0d 0a                                ..

```

```

<= Recv header, 13 bytes (0xd)
0000: 45 78 70 69 72 65 73 3a 20 2d 31 0d 0a      Expires: -1..
<= Recv header, 33 bytes (0x21)
0000: 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 70 65 2d 4f X-
Content-Type-0
0010: 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e 69 66 66 0d pt
ions: nosniff.
0020: 0a      .
<= Recv header, 42 bytes (0x2a)
0000: 45 74 61 67 3a 20 57 2f 22 34 31 2d 53 4f 2f 70 Et
ag: W/"41-S0/p
0010: 41 2f 37 5a 6c 73 73 58 38 51 2f 34 7a 32 6f 76 A/
7ZlssX8Q/4z2ov
0020: 6d 6e 62 5a 52 67 59 22 0d 0a      mn
bZRgY"..
<= Recv header, 16 bytes (0x10)
0000: 56 69 61 3a 20 31 2e 31 20 76 65 67 75 72 0d 0a Vi
a: 1.1 vegur..
<= Recv header, 26 bytes (0x1a)
0000: 43 46 2d 43 61 63 68 65 2d 53 74 61 74 75 73 3a CF
-Cache-Status:
0010: 20 44 59 4e 41 4d 49 43 0d 0a      D
YNAMIC..
<= Recv header, 20 bytes (0x14)
0000: 53 65 72 76 65 72 3a 20 63 6c 6f 75 64 66 6c 61 Se
rver: cloudfla
0010: 72 65 0d 0a      r
e..
<= Recv header, 30 bytes (0x1e)
0000: 43 46 2d 52 41 59 3a 20 38 63 66 66 64 62 64 62 CF
-RAY: 8cffdbdb
0010: 33 65 64 63 62 34 31 62 2d 48 4b 47 0d 0a      3e
dcb41b-HKG..
<= Recv header, 30 bytes (0x1e)
0000: 61 6c 74 2d 73 76 63 3a 20 68 33 3d 22 3a 34 34 al
t-svc: h3=":44
0010: 33 22 3b 20 6d 61 3d 38 36 34 30 30 0d 0a

```

```

3"; ma=86400..
<= Recv header, 2 bytes (0x2)
0000: 0d 0a                                     ..
<= Recv data, 65 bytes (0x41)
0000: 7b 0a 20 20 22 69 64 22 3a 20 31 2c 0a 20 20 22 {.
    "id": 1,.  "
0010: 74 69 74 6c 65 22 3a 20 22 66 6f 6f 22 2c 0a 20 ti
    tle": "foo",.
0020: 20 22 62 6f 64 79 22 3a 20 22 62 61 72 22 2c 0a
    "body": "bar",.
0030: 20 20 22 75 73 65 72 49 64 22 3a 20 22 31 22 0a
    "userId": "1".
0040: 7d                                           }
== Info: Connection #0 to host jsonplaceholder.typicode.
com left intact

```

3.1.4. DELETE

```
$ curl -vvv --trace request_delete.txt https://jsonplaceholder.typicode.com/posts/1
```

```

{
  "userId": 1,
  "id": 1,
  "title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
  "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas tota m\nnostrum rerum est autem sunt rem eveniet architecto"
}

```

- **request_delete.txt**

```

== Info: Host jsonplaceholder.typicode.com:443 was resolved.
== Info: IPv6: (none)
== Info: IPv4: 172.67.167.151, 104.21.59.19

```



```

== Info:   Trying 172.67.167.151:443...
== Info: Connected to jsonplaceholder.typicode.com (172.
67.167.151) port 443
== Info: schannel: disabled automatic use of client cert
ificate
== Info: ALPN: curl offers http/1.1
== Info: ALPN: server accepted http/1.1
== Info: using HTTP/1.x
=> Send header, 98 bytes (0x62)
0000: 47 45 54 20 2f 70 6f 73 74 73 2f 31 20 48 54 54 GE
T /posts/1 HTT
0010: 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 6a 73 6f P/
1.1..Host: jso
0020: 6e 70 6c 61 63 65 68 6f 6c 64 65 72 2e 74 79 70 np
laceholder.typ
0030: 69 63 6f 64 65 2e 63 6f 6d 0d 0a 55 73 65 72 2d ic
ode.com..User-
0040: 41 67 65 6e 74 3a 20 63 75 72 6c 2f 38 2e 39 2e Ag
ent: curl/8.9.
0050: 31 0d 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a
1..Accept: */*..
0060: 0d 0a                                     ..
== Info: Request completely sent off
== Info: schannel: remote party requests renegotiation
== Info: schannel: renegotiating SSL/TLS connection
== Info: schannel: SSL/TLS connection renegotiated
<= Recv header, 17 bytes (0x11)
0000: 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HT
TP/1.1 200 OK.
0010: 0a                                     .
<= Recv header, 37 bytes (0x25)
0000: 44 61 74 65 3a 20 57 65 64 2c 20 30 39 20 4f 63 Da
te: Wed, 09 Oc
0010: 74 20 32 30 32 34 20 31 36 3a 35 36 3a 33 34 20 t
2024 16:56:34
0020: 47 4d 54 0d 0a                                     GM
T..
<= Recv header, 47 bytes (0x2f)

```

```

0000: 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 Co
ntent-Type: ap
0010: 70 6c 69 63 61 74 69 6f 6e 2f 6a 73 6f 6e 3b 20 pl
ication/json;
0020: 63 68 61 72 73 65 74 3d 75 74 66 2d 38 0d 0a      ch
arset=utf-8..
<= Recv header, 21 bytes (0x15)
0000: 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Co
ntent-Length:
0010: 32 39 32 0d 0a                                     29
2..
<= Recv header, 24 bytes (0x18)
0000: 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Co
nnection: keep
0010: 2d 61 6c 69 76 65 0d 0a                             -a
live..
<= Recv header, 215 bytes (0xd7)
0000: 52 65 70 6f 72 74 2d 54 6f 3a 20 7b 22 67 72 6f Re
port-To: {"gro
0010: 75 70 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 u
p":"heroku-nel"
0020: 2c 22 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c
,"max_age":3600,
0030: 22 65 6e 64 70 6f 69 6e 74 73 22 3a 5b 7b 22 75 "e
ndpoints":[{"u
0040: 72 6c 22 3a 22 68 74 74 70 73 3a 2f 2f 6e 65 6c r
l":"https://nel
0050: 2e 68 65 72 6f 6b 75 2e 63 6f 6d 2f 72 65 70 6f .h
eroku.com/repo
0060: 72 74 73 3f 74 73 3d 31 37 32 35 36 37 39 30 33 rt
s?ts=172567903
0070: 32 26 73 69 64 3d 65 31 31 37 30 37 64 35 2d 30 2&
sid=e11707d5-0
0080: 32 61 37 2d 34 33 65 66 2d 62 34 35 65 2d 32 63 2a
7-43ef-b45e-2c
0090: 66 34 64 32 30 33 36 66 37 64 26 73 3d 78 6d 4f f4
d2036f7d&s=xm0
00a0: 61 67 56 73 4a 30 66 55 43 72 51 59 6e 55 66 62 ag

```

```

VsJ0fUCrQYnUfb
00b0: 43 55 25 32 42 49 25 32 46 37 71 64 75 53 4f 59 C
U%2BI%2F7qduS0Y
00c0: 41 48 39 57 25 32 42 48 51 79 63 66 38 73 25 33 AH
9W%2BHQycf8s%3
00d0: 44 22 7d 5d 7d 0d 0a
D"}]]}..
<= Recv header, 174 bytes (0xae)
0000: 52 65 70 6f 72 74 69 6e 67 2d 45 6e 64 70 6f 69 Re
porting-Endpoi
0010: 6e 74 73 3a 20 68 65 72 6f 6b 75 2d 6e 65 6c 3d nt
s: heroku-nel=
0020: 68 74 74 70 73 3a 2f 2f 6e 65 6c 2e 68 65 72 6f ht
tps://nel.hero
0030: 6b 75 2e 63 6f 6d 2f 72 65 70 6f 72 74 73 3f 74 k
u.com/reports?t
0040: 73 3d 31 37 32 35 36 37 39 30 33 32 26 73 69 64 s=
1725679032&sid
0050: 3d 65 31 31 37 30 37 64 35 2d 30 32 61 37 2d 34 =e
11707d5-02a7-4
0060: 33 65 66 2d 62 34 35 65 2d 32 63 66 34 64 32 30 3e
f-b45e-2cf4d20
0070: 33 36 66 37 64 26 73 3d 78 6d 4f 61 67 56 73 4a 36
f7d&s=xm0agVsJ
0080: 30 66 55 43 72 51 59 6e 55 66 62 43 55 25 32 42 0f
UCrQYnUfbCU%2B
0090: 49 25 32 46 37 71 64 75 53 4f 59 41 48 39 57 25 I%
2F7qduS0YAH9W%
00a0: 32 42 48 51 79 63 66 38 73 25 33 44 0d 0a 2B
HQycf8s%3D..
<= Recv header, 124 bytes (0x7c)
0000: 4e 65 6c 3a 20 7b 22 72 65 70 6f 72 74 5f 74 6f Ne
l: {"report_to
0010: 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 2c 22
": "heroku-nel", "
0020: 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c 22 73 ma
x_age": 3600, "s
0030: 75 63 63 65 73 73 5f 66 72 61 63 74 69 6f 6e 22 uc

```

```

cess_fraction"
0040: 3a 30 2e 30 30 35 2c 22 66 61 69 6c 75 72 65 5f :
0.005,"failure_
0050: 66 72 61 63 74 69 6f 6e 22 3a 30 2e 30 35 2c 22 fr
action":0.05,"
0060: 72 65 73 70 6f 6e 73 65 5f 68 65 61 64 65 72 73 re
sponse_headers
0070: 22 3a 5b 22 56 69 61 22 5d 7d 0d 0a          ":
["Via"]}}..
<= Recv header, 23 bytes (0x17)
0000: 58 2d 50 6f 77 65 72 65 64 2d 42 79 3a 20 45 78 X-
Powered-By: Ex
0010: 70 72 65 73 73 0d 0a          pr
ess..
<= Recv header, 25 bytes (0x19)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 4c 69 6d 69 X-
Ratelimit-Limi
0010: 74 3a 20 31 30 30 30 0d 0a          t:
1000..
<= Recv header, 28 bytes (0x1c)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 6d 61 X-
Ratelimit-Rema
0010: 69 6e 69 6e 67 3a 20 39 39 39 0d 0a          in
ing: 999..
<= Recv header, 31 bytes (0x1f)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 73 65 X-
Ratelimit-Rese
0010: 74 3a 20 31 37 32 35 36 37 39 30 37 32 0d 0a      t:
1725679072..
<= Recv header, 31 bytes (0x1f)
0000: 56 61 72 79 3a 20 4f 72 69 67 69 6e 2c 20 41 63 Va
ry: Origin, Ac
0010: 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 0d 0a      ce
pt-Encoding..
<= Recv header, 40 bytes (0x28)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 Ac
cess-Control-A
0010: 6c 6c 6f 77 2d 43 72 65 64 65 6e 74 69 61 6c 73 ll

```

```

ow-Credentials
0020: 3a 20 74 72 75 65 0d 0a      :
true..
<= Recv header, 30 bytes (0x1e)
0000: 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6d Ca
che-Control: m
0010: 61 78 2d 61 67 65 3d 34 33 32 30 30 0d 0a      ax
-age=43200..
<= Recv header, 18 bytes (0x12)
0000: 50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 Pr
agma: no-cache
0010: 0d 0a      ..
<= Recv header, 13 bytes (0xd)
0000: 45 78 70 69 72 65 73 3a 20 2d 31 0d 0a      Ex
pires: -1..
<= Recv header, 33 bytes (0x21)
0000: 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 70 65 2d 4f X-
Content-Type-0
0010: 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e 69 66 66 0d pt
ions: nosniff.
0020: 0a      .
<= Recv header, 43 bytes (0x2b)
0000: 45 74 61 67 3a 20 57 2f 22 31 32 34 2d 79 69 4b Et
ag: W/"124-yiK
0010: 64 4c 7a 71 4f 35 67 66 42 72 4a 46 72 63 64 4a dL
zq05gfBrJFrcdJ
0020: 38 59 71 30 4c 47 6e 55 22 0d 0a      8Y
q0LGnU"..
<= Recv header, 16 bytes (0x10)
0000: 56 69 61 3a 20 31 2e 31 20 76 65 67 75 72 0d 0a Vi
a: 1.1 vegur..
<= Recv header, 22 bytes (0x16)
0000: 43 46 2d 43 61 63 68 65 2d 53 74 61 74 75 73 3a CF
-Cache-Status:
0010: 20 48 49 54 0d 0a      H
IT..
<= Recv header, 12 bytes (0xc)
0000: 41 67 65 3a 20 32 30 32 32 33 0d 0a      Ag

```

```

e: 20223..
<= Recv header, 22 bytes (0x16)
0000: 41 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 Ac
cept-Ranges: b
0010: 79 74 65 73 0d 0a yt
es..
<= Recv header, 20 bytes (0x14)
0000: 53 65 72 76 65 72 3a 20 63 6c 6f 75 64 66 6c 61 Se
rver: cloudfla
0010: 72 65 0d 0a r
e..
<= Recv header, 30 bytes (0x1e)
0000: 43 46 2d 52 41 59 3a 20 38 63 66 66 65 37 61 32 CF
-RAY: 8cffe7a2
0010: 31 38 61 37 38 34 39 39 2d 48 4b 47 0d 0a 18
a78499-HKG..
<= Recv header, 30 bytes (0x1e)
0000: 61 6c 74 2d 73 76 63 3a 20 68 33 3d 22 3a 34 34 al
t-svc: h3=":44
0010: 33 22 3b 20 6d 61 3d 38 36 34 30 30 0d 0a
3"; ma=86400..
<= Recv header, 2 bytes (0x2)
0000: 0d 0a ..
<= Recv data, 292 bytes (0x124)
0000: 7b 0a 20 20 22 75 73 65 72 49 64 22 3a 20 31 2c {.
"userId": 1,
0010: 0a 20 20 22 69 64 22 3a 20 31 2c 0a 20 20 22 74 .
"id": 1,. "t
0020: 69 74 6c 65 22 3a 20 22 73 75 6e 74 20 61 75 74 it
le": "sunt aut
0030: 20 66 61 63 65 72 65 20 72 65 70 65 6c 6c 61 74 f
acere repellat
0040: 20 70 72 6f 76 69 64 65 6e 74 20 6f 63 63 61 65 p
rovident occae
0050: 63 61 74 69 20 65 78 63 65 70 74 75 72 69 20 6f ca
ti excepturi o
0060: 70 74 69 6f 20 72 65 70 72 65 68 65 6e 64 65 72 pt
io reprehender

```

```

0070: 69 74 22 2c 0a 20 20 22 62 6f 64 79 22 3a 20 22 i
t",. "body": "
0080: 71 75 69 61 20 65 74 20 73 75 73 63 69 70 69 74 qu
ia et suscipit
0090: 5c 6e 73 75 73 63 69 70 69 74 20 72 65 63 75 73 \n
suscipit recus
00a0: 61 6e 64 61 65 20 63 6f 6e 73 65 71 75 75 6e 74 an
dae consequunt
00b0: 75 72 20 65 78 70 65 64 69 74 61 20 65 74 20 63 ur
expedita et c
00c0: 75 6d 5c 6e 72 65 70 72 65 68 65 6e 64 65 72 69 um
\nreprehenderi
00d0: 74 20 6d 6f 6c 65 73 74 69 61 65 20 75 74 20 75 t
molestiae ut u
00e0: 74 20 71 75 61 73 20 74 6f 74 61 6d 5c 6e 6e 6f t
quas totam\nno
00f0: 73 74 72 75 6d 20 72 65 72 75 6d 20 65 73 74 20 st
rum rerum est
0100: 61 75 74 65 6d 20 73 75 6e 74 20 72 65 6d 20 65 au
tem sunt rem e
0110: 76 65 6e 69 65 74 20 61 72 63 68 69 74 65 63 74 ve
niet architect
0120: 6f 22 0a 7d
o".}
== Info: Connection #0 to host jsonplaceholder.typicode.
com left intact

```

3.2. HTTPS

3.2.1. GET

```
$ curl -vvv --trace request_get.txt https://jsonplaceholder.r.typicode.com/posts/1
```

```
{
  "userId": 1,
  "id": 1,
```

```
    "title": "sunt aut facere repellat provident occaecati ex  
cepturi optio reprehenderit",  
    "body": "quia et suscipit\nsuscipit recusandae consequunt  
ur expedita et cum\nreprehenderit molestiae ut ut quas tota  
m\nnostrum rerum est autem sunt rem eveniet architecto"  
}
```

- **request_get.txt**

```
== Info: Host jsonplaceholder.typicode.com:443 was resolved.  
== Info: IPv6: (none)  
== Info: IPv4: 172.67.167.151, 104.21.59.19  
== Info: Trying 172.67.167.151:443...  
== Info: Connected to jsonplaceholder.typicode.com (172.67.  
167.151) port 443  
== Info: schannel: disabled automatic use of client certificate  
== Info: ALPN: curl offers http/1.1  
== Info: ALPN: server accepted http/1.1  
== Info: using HTTP/1.x  
=> Send header, 98 bytes (0x62)  
0000: 47 45 54 20 2f 70 6f 73 74 73 2f 31 20 48 54 54 GET /  
posts/1 HTTP  
0010: 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 6a 73 6f P/1.  
1..Host: jsonplaceholder.typ  
0020: 6e 70 6c 61 63 65 68 6f 6c 64 65 72 2e 74 79 70 nplac  
eholder.typ  
0030: 69 63 6f 64 65 2e 63 6f 6d 0d 0a 55 73 65 72 2d icod  
e.com..User-  
0040: 41 67 65 6e 74 3a 20 63 75 72 6c 2f 38 2e 39 2e Agen  
t: curl/8.9.  
0050: 31 0d 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a 1..Ac  
cept: */*..  
0060: 0d 0a ..  
== Info: Request completely sent off  
== Info: schannel: remote party requests renegotiation  
== Info: schannel: renegotiating SSL/TLS connection
```



```

== Info: schannel: SSL/TLS connection renegotiated
<= Recv header, 17 bytes (0x11)
0000: 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/
1.1 200 OK.
0010: 0a
<= Recv header, 37 bytes (0x25)
0000: 44 61 74 65 3a 20 57 65 64 2c 20 30 39 20 4f 63 Date:
Wed, 09 Oc
0010: 74 20 32 30 32 34 20 31 36 3a 35 39 3a 30 33 20 t 202
4 16:59:03
0020: 47 4d 54 0d 0a GMT..
<= Recv header, 47 bytes (0x2f)
0000: 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 Conte
nt-Type: ap
0010: 70 6c 69 63 61 74 69 6f 6e 2f 6a 73 6f 6e 3b 20 plica
tion/json;
0020: 63 68 61 72 73 65 74 3d 75 74 66 2d 38 0d 0a chars
et=utf-8..
<= Recv header, 21 bytes (0x15)
0000: 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Conte
nt-Length:
0010: 32 39 32 0d 0a 292..
<= Recv header, 24 bytes (0x18)
0000: 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Conne
ction: keep
0010: 2d 61 6c 69 76 65 0d 0a -aliv
e..
<= Recv header, 215 bytes (0xd7)
0000: 52 65 70 6f 72 74 2d 54 6f 3a 20 7b 22 67 72 6f Repor
t-To: {"gro
0010: 75 70 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 u
p":"heroku-nel"
0020: 2c 22 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c , "max
_age":3600,
0030: 22 65 6e 64 70 6f 69 6e 74 73 22 3a 5b 7b 22 75 "endp
oints":[{"u
0040: 72 6c 22 3a 22 68 74 74 70 73 3a 2f 2f 6e 65 6c r
l":"https://nel

```

```

0050: 2e 68 65 72 6f 6b 75 2e 63 6f 6d 2f 72 65 70 6f .hero
ku.com/repo
0060: 72 74 73 3f 74 73 3d 31 37 32 35 36 37 39 30 33 rts?t
s=172567903
0070: 32 26 73 69 64 3d 65 31 31 37 30 37 64 35 2d 30 2&sid
=e11707d5-0
0080: 32 61 37 2d 34 33 65 66 2d 62 34 35 65 2d 32 63 2a7-4
3ef-b45e-2c
0090: 66 34 64 32 30 33 36 66 37 64 26 73 3d 78 6d 4f f4d20
36f7d&s=xm0
00a0: 61 67 56 73 4a 30 66 55 43 72 51 59 6e 55 66 62 agVsJ
0fUCrQYnUfb
00b0: 43 55 25 32 42 49 25 32 46 37 71 64 75 53 4f 59 CU%2B
I%2F7qduS0Y
00c0: 41 48 39 57 25 32 42 48 51 79 63 66 38 73 25 33 AH9W%
2BHQycf8s%3
00d0: 44 22 7d 5d 7d 0d 0a
D"[]}]..
<= Recv header, 174 bytes (0xae)
0000: 52 65 70 6f 72 74 69 6e 67 2d 45 6e 64 70 6f 69 Repor
ting-Endpoi
0010: 6e 74 73 3a 20 68 65 72 6f 6b 75 2d 6e 65 6c 3d nts:
heroku-nel=
0020: 68 74 74 70 73 3a 2f 2f 6e 65 6c 2e 68 65 72 6f http
s://nel.hero
0030: 6b 75 2e 63 6f 6d 2f 72 65 70 6f 72 74 73 3f 74 ku.co
m/reports?t
0040: 73 3d 31 37 32 35 36 37 39 30 33 32 26 73 69 64 s=172
5679032&sid
0050: 3d 65 31 31 37 30 37 64 35 2d 30 32 61 37 2d 34 =e117
07d5-02a7-4
0060: 33 65 66 2d 62 34 35 65 2d 32 63 66 34 64 32 30 3ef-b
45e-2cf4d20
0070: 33 36 66 37 64 26 73 3d 78 6d 4f 61 67 56 73 4a 36f7d
&s=xm0agVsJ
0080: 30 66 55 43 72 51 59 6e 55 66 62 43 55 25 32 42 0fUCr
QYnUfbCU%2B
0090: 49 25 32 46 37 71 64 75 53 4f 59 41 48 39 57 25 I%2F7

```

```

qduSOYAH9W%
00a0: 32 42 48 51 79 63 66 38 73 25 33 44 0d 0a      2BHQy
cf8s%3D..
<= Recv header, 124 bytes (0x7c)
0000: 4e 65 6c 3a 20 7b 22 72 65 70 6f 72 74 5f 74 6f Nel:
{"report_to
0010: 22 3a 22 68 65 72 6f 6b 75 2d 6e 65 6c 22 2c 22 ":"he
roku-nel", "
0020: 6d 61 78 5f 61 67 65 22 3a 33 36 30 30 2c 22 73 max_a
ge":3600,"s
0030: 75 63 63 65 73 73 5f 66 72 61 63 74 69 6f 6e 22 ucces
s_fraction"
0040: 3a 30 2e 30 30 35 2c 22 66 61 69 6c 75 72 65 5f :0.00
5,"failure_
0050: 66 72 61 63 74 69 6f 6e 22 3a 30 2e 30 35 2c 22 fract
ion":0.05,"
0060: 72 65 73 70 6f 6e 73 65 5f 68 65 61 64 65 72 73 respo
nse_headers
0070: 22 3a 5b 22 56 69 61 22 5d 7d 0d 0a      ":[ "V
ia"]}]..
<= Recv header, 23 bytes (0x17)
0000: 58 2d 50 6f 77 65 72 65 64 2d 42 79 3a 20 45 78 X-Pow
ered-By: Ex
0010: 70 72 65 73 73 0d 0a      pres
s..
<= Recv header, 25 bytes (0x19)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 4c 69 6d 69 X-Rat
elimit-Limi
0010: 74 3a 20 31 30 30 30 0d 0a      t: 10
00..
<= Recv header, 28 bytes (0x1c)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 6d 61 X-Rat
elimit-Rema
0010: 69 6e 69 6e 67 3a 20 39 39 39 0d 0a      inin
g: 999..
<= Recv header, 31 bytes (0x1f)
0000: 58 2d 52 61 74 65 6c 69 6d 69 74 2d 52 65 73 65 X-Rat
elimit-Rese

```

```

0010: 74 3a 20 31 37 32 35 36 37 39 30 37 32 0d 0a      t: 17
25679072..
<= Recv header, 31 bytes (0x1f)
0000: 56 61 72 79 3a 20 4f 72 69 67 69 6e 2c 20 41 63 Vary:
Origin, Ac
0010: 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 0d 0a      cept-
Encoding..
<= Recv header, 40 bytes (0x28)
0000: 41 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 Acces
s-Control-A
0010: 6c 6c 6f 77 2d 43 72 65 64 65 6e 74 69 61 6c 73 llow-
Credentials
0020: 3a 20 74 72 75 65 0d 0a                          : tru
e..
<= Recv header, 30 bytes (0x1e)
0000: 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6d Cache
-Control: m
0010: 61 78 2d 61 67 65 3d 34 33 32 30 30 0d 0a      ax-ag
e=43200..
<= Recv header, 18 bytes (0x12)
0000: 50 72 61 67 6d 61 3a 20 6e 6f 2d 63 61 63 68 65 Pragm
a: no-cache
0010: 0d 0a                                              ..
<= Recv header, 13 bytes (0xd)
0000: 45 78 70 69 72 65 73 3a 20 2d 31 0d 0a      Expir
es: -1..
<= Recv header, 33 bytes (0x21)
0000: 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 70 65 2d 4f X-Con
tent-Type-0
0010: 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e 69 66 66 0d ption
s: nosniff.
0020: 0a                                              .
<= Recv header, 43 bytes (0x2b)
0000: 45 74 61 67 3a 20 57 2f 22 31 32 34 2d 79 69 4b Etag:
W/"124-yiK
0010: 64 4c 7a 71 4f 35 67 66 42 72 4a 46 72 63 64 4a dLzq0
5gfBrJFrcdJ
0020: 38 59 71 30 4c 47 6e 55 22 0d 0a      8Yq0L

```

```

GnU"..
<= Recv header, 16 bytes (0x10)
0000: 56 69 61 3a 20 31 2e 31 20 76 65 67 75 72 0d 0a Via:
1.1 vegur..
<= Recv header, 22 bytes (0x16)
0000: 43 46 2d 43 61 63 68 65 2d 53 74 61 74 75 73 3a CF-Ca
che-Status:
0010: 20 48 49 54 0d 0a HI
T..
<= Recv header, 12 bytes (0xc)
0000: 41 67 65 3a 20 32 30 33 37 32 0d 0a Age:
20372..
<= Recv header, 22 bytes (0x16)
0000: 41 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 Accep
t-Ranges: b
0010: 79 74 65 73 0d 0a yte
S..
<= Recv header, 20 bytes (0x14)
0000: 53 65 72 76 65 72 3a 20 63 6c 6f 75 64 66 6c 61 Serve
r: cloudfla
0010: 72 65 0d 0a re..
<= Recv header, 30 bytes (0x1e)
0000: 43 46 2d 52 41 59 3a 20 38 63 66 66 65 62 34 32 CF-RA
Y: 8cffeb42
0010: 35 61 38 33 38 34 39 31 2d 48 4b 47 0d 0a 5a838
491-HKG..
<= Recv header, 30 bytes (0x1e)
0000: 61 6c 74 2d 73 76 63 3a 20 68 33 3d 22 3a 34 34 alt-s
vc: h3=":44
0010: 33 22 3b 20 6d 61 3d 38 36 34 30 30 0d 0a 3"; m
a=86400..
<= Recv header, 2 bytes (0x2)
0000: 0d 0a ..
<= Recv data, 292 bytes (0x124)
0000: 7b 0a 20 20 22 75 73 65 72 49 64 22 3a 20 31 2c {.
"userId": 1,
0010: 0a 20 20 22 69 64 22 3a 20 31 2c 0a 20 20 22 74 . "i
d": 1,. "t

```

```

0020: 69 74 6c 65 22 3a 20 22 73 75 6e 74 20 61 75 74 itl
e": "sunt aut
0030: 20 66 61 63 65 72 65 20 72 65 70 65 6c 6c 61 74 face
re repellat
0040: 20 70 72 6f 76 69 64 65 6e 74 20 6f 63 63 61 65 prov
ident occae
0050: 63 61 74 69 20 65 78 63 65 70 74 75 72 69 20 6f cati
excepturi o
0060: 70 74 69 6f 20 72 65 70 72 65 68 65 6e 64 65 72 ptio
reprehender
0070: 69 74 22 2c 0a 20 20 22 62 6f 64 79 22 3a 20 22 it",.
"body": "
0080: 71 75 69 61 20 65 74 20 73 75 73 63 69 70 69 74 quia
et suscipit
0090: 5c 6e 73 75 73 63 69 70 69 74 20 72 65 63 75 73 \nsus
cipit recus
00a0: 61 6e 64 61 65 20 63 6f 6e 73 65 71 75 75 6e 74 andae
consequunt
00b0: 75 72 20 65 78 70 65 64 69 74 61 20 65 74 20 63 ur ex
pedita et c
00c0: 75 6d 5c 6e 72 65 70 72 65 68 65 6e 64 65 72 69 um\nr
eprehenderi
00d0: 74 20 6d 6f 6c 65 73 74 69 61 65 20 75 74 20 75 t mol
estiae ut u
00e0: 74 20 71 75 61 73 20 74 6f 74 61 6d 5c 6e 6e 6f t qua
s totam\nno
00f0: 73 74 72 75 6d 20 72 65 72 75 6d 20 65 73 74 20 strum
rerum est
0100: 61 75 74 65 6d 20 73 75 6e 74 20 72 65 6d 20 65 autem
sunt rem e
0110: 76 65 6e 69 65 74 20 61 72 63 68 69 74 65 63 74 venie
t architect
0120: 6f 22 0a 7d o"}.
== Info: Connection #0 to host jsonplaceholder.typicode.com
left intact

```

- Giải thích giống HTTP nhưng có thêm bước mã hoá SSL/TLS

| Tương tự HTTPS tương đối giống HTTP