

CEF Cookie 请求问题

一、情景描述

基于 cefsimple 工程中的 SimpleApp::OnContextInitialized 中的 url="http://www.google.com"
改成 url = "http://10.10.10.239:2342";

通过抓包工具查看, 设置过滤条件:

ip.addr == 10.10.10.239 && tcp.port == 2342

2177...	2473.634075	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A
2177...	2473.812038	192.168.1.159	10.10.10.239	HTTP	555 GET / HTTP/1.1
2177...	2473.815441	10.10.10.239	192.168.1.159	TCP	254 2342 → 8544 [P
2177...	2473.865197	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A
2177...	2473.865956	10.10.10.239	192.168.1.159	HTTP	91 HTTP/1.1 200 O
2177...	2473.911238	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A
2177...	2474.029131	192.168.1.159	10.10.10.239	HTTP	553 GET / HTTP/1.1
2177...	2474.032870	10.10.10.239	192.168.1.159	TCP	255 2342 → 8544 [P
2177...	2474.079539	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A
2177...	2474.080457	10.10.10.239	192.168.1.159	HTTP	91 HTTP/1.1 200 O
2177...	2474.127366	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A
2177...	2475.198284	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [F
2177...	2475.199498	10.10.10.239	192.168.1.159	TCP	60 2342 → 8544 [A
2177...	2475.199964	10.10.10.239	192.168.1.159	TCP	60 2342 → 8544 [F
2177...	2475.200012	192.168.1.159	10.10.10.239	TCP	54 8544 → 2342 [A

> Frame 217721: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bit	0000	9c 54 c2
> Ethernet II, Src: Dell_75:83:c0 (70:b5:e8:75:83:c0), Dst: NewH3CTechno_e3	0010	02 1d a9
> Internet Protocol Version 4, Src: 192.168.1.159, Dst: 10.10.10.239	0020	0a ef 21
> Transmission Control Protocol, Src Port: 8544, Dst Port: 2342, Seq: 1936,	0030	03 fe d9
> Hypertext Transfer Protocol	0040	2f 31 2e
> GET / HTTP/1.1\r\n	0050	30 2e 31
Host: 10.10.10.239:2342\r\n	0060	6f 6e 6e
Connection: keep-alive\r\n	0070	61 6c 69
Cache-Control: max-age=0\r\n	0080	74 72 6f
Upgrade-Insecure-Requests: 1\r\n	0090	0a 55 70
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.3	00a0	65 2d 52
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/av	00b0	73 65 72
Accept-Language: en-US,en;q=0.9\r\n	00c0	6c 61 2f
Accept-Encoding: gzip, deflate\r\n	00d0	4e 54 20
> Cookie: cookie_success=1703156600.7090898\r\n	00e0	78 36 34
\r\n	00f0	2f 35 33
[Full request URI: http://10.10.10.239:2342/]	0100	69 6b 6b
[HTTP request 5/6]	0110	6d 65 2f
[Prev request in frame: 217709]	0120	61 72 69
[Response in frame: 217724]	0130	70 74 3a
[Next request in frame: 217733]	0140	70 6c 69
	0150	78 6d 6c
	0160	78 6d 6c
	0170	61 76 69
	0180	69 6d 61

没有出现cookie

(a) 在没有设置 cookie 之前

FAIL

(b) 响应页面结果

二、问题描述

如何修改 OnContextInitialized 中的代码，或者其他位置的代码，使其出现:

```
> Frame 217733: 553 bytes on wire (4424 bits), 553 bytes captured (4424 bits) on interface 0
> Ethernet II, Src: Dell_75:83:c0 (70:b5:e8:75:83:c0), Dst: NewH3CTechno_e:
> Internet Protocol Version 4, Src: 192.168.1.159, Dst: 10.10.10.239
> Transmission Control Protocol, Src Port: 8544, Dst Port: 2342, Seq: 2437.
▼ Hypertext Transfer Protocol
  > GET / HTTP/1.1\r\n
    Host: 10.10.10.239:2342\r\n
    Connection: keep-alive\r\n
    Cache-Control: max-age=0\r\n
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/av
    Accept-Language: en-US,en;q=0.9\r\n
    Accept-Encoding: gzip, deflate\r\n
    > Cookie: cookie_success=1703156608.97713\r\n
      \r\n
      [Full request URI: http://10.10.10.239:2342/]
      [HTTP request 6/6]
      [Prev request in frame: 217721]
      [Response in frame: 217736]
```

(c) 在没有设置 cookie 之前

SUCCESS

(d) 响应页面结果

三、目前的研究

实现方式 1:

```
// 创建 CefRequest 对象
CefRefPtr<CefRequest> request = CefRequest::Create();
request->SetURL("http://10.10.10.239:2342/");

CefRequest::HeaderMap headerMap;
headerMap.insert({"Cookie", name + "=" + value});
request->SetHeaderMap(headerMap);

// 创建 CefURLRequest 实例并发送请求
CefRefPtr<CefURLRequest> urlRequest =
CefURLRequest::Create(request, new MyRequestClient(), nullptr);
```

这种方式虽然能将 cookie 正确和 Get 请求发送, 但是奇怪的是响应页面并没有渲染窗口上???

实现方式 2:

```
bool SimpleHandler::OnBeforeBrowse(
    CefRefPtr<CefBrowser> browser,
    CefRefPtr<CefFrame> frame,
    CefRefPtr<CefRequest> request,
    bool user_gesture,
    bool is_redirect) {
    // Check if the request is for a specific domain
    CefString url = request->GetURL();
    request->SetURL("https://www.baidu.com/");
    url = request->GetURL();

    // Continue with the request
    return false;
}
```

这种方式可以在发送数据到服务器之前断下, 但是由于 request 对象是只读的, 导致设置新的 URL 等写操作无效, 原本想在发送之前在这里加入 cookie, 但是现在因为只读的原因无法达成, 如果这里能修改 request 的内容, 效果是最好的。