

# 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.