

https防抓包机制

抓包实战

Charles www.charlesproxy.com

- PC端安装Charles根证书

help -> SSLProxying -> Install Charles Root Certificate

- 安装Charles根证书到手机

help -> SSLProxying -> Install Charles Root Certificate on a Mobile Device or

Remote Browser

注意： 安装证书过程需要手机wifi设置电脑IP地址代理, 否则不会下载证书

- 在手机浏览器中访问手机 chls.pro/ssl
- PC端设置代理https端口

Proxy -> SSL Proxying Settings

抓包实战

Fiddler <https://www.telerik.com/download/fiddler>

- 确保Android设备和安装Fiddler的电脑连接到同一个Wifi AP上
- 配置Fiddler抓取并解密HTTPS包

Tools->Fiddler Option->HTTPS选项卡勾选“Capture HTTPS CONNECTs”和“Decrypt HTTPS traffic”。由于通过Wifi远程连过来，所以在下面的选项框中选择“... from remote clients only”。切换到“Connections”选项卡修改监听端口，勾选上“Allow remote computers to connect”。

- 设置Android设备，添加上代理服务器
- 导证书到Android设备

打开设备自带的浏览器，在地址栏中输入代理服务器的IP和端口导入FiddlerRoot certificate

http抓包

Charles 4.2.8 - Session 1 *

File Edit View Proxy Tools Window Help

Structure Sequence

- https://www.google.com
- http://dict.youdao.com
 - appapi
 - monitor
 - jsonapi_s?q=metro&le=&t=1566544456914&s
 - mvoice?method=getInfo&word=metro&ssid=N
- http://gorgon.youdao.com
- http://oimageb3.ydstatic.com
- http://dsp-impr2.youdao.com
- http://oimagea4.ydstatic.com
- http://oimagec3.ydstatic.com
- http://log.yex.youdao.com
- https://logbus.tantanapp.com
- https://tj.youzanyun.com
- https://clients4.google.com
- https://e.crashlytics.com
- https://self.events.data.microsoft.com
- https://www.imooc.com
- http://beacon-api.aliyuncs.com
- https://v10.events.data.microsoft.com
- http://ime.sogou.com
- http://config.pinyin.sogou.com

Overview Contents Summary Chart Notes

POST /jsonapi_s?q=metro&le=&t=1566544456914&sign=ad3800f13a42a5bffc71471a89f2c687&client=mobile&jsonversion=3&keyversion=2017111

Content-Type application/x-www-form-urlencoded; charset=utf-8

Content-Length 842

Host dict.youdao.com

Accept-Encoding gzip

User-Agent okhttp/3.11.0

Connection keep-alive

Headers Query String Text Hex Form Raw

```
{
  "oxford": {
    "encryptedData": "TNvL5RvzrtPgEpLHE_NgTvMMps7y4fRHaUBzdolM_-WBHuFBSSgrflhzjIJ3c5growul-B4Z3VdilAVpWx8asPn3xU6WNYSofHyYnn4V6BahGxQTDamV8rPpCfz4",
  },
  "syno": {
    "synos": [{
      "pos": "n.",
      "ws": ["sub", "subway"],
      "tran": "地铁; 大都市; 伦敦地下铁道; 麦德隆 (财富500强公司之一, 总部所在地德国, 主要经营零售)"
    }],
    "word": "metro"
  },
}
```


https抓包

Progress Telerik Fiddler Web Debugger

File Edit Rules Tools View Help

#	Result	Protocol	Host	URL	Body	Caching	Content-
1	200	HTTP	Tunnel to	crash.163.com:443	0		
2	200	HTTPS	crash.163.com	/uploadCrashLogInfo.do	0		
3	200	HTTP	beacon-api.aliyuncs...	/beacon/fetch/config/byappkey	386		applicatio
4	200	HTTP	beacon-api.aliyuncs...	/beacon/fetch/config/byappkey	386		applicatio

StatisticsInspectorsAutoResponderComposerFiddler Orchestra BetaFiddlerScriptLogFiltersTimeline

HeadersTextViewSyntaxViewWebFormsHexViewAuthCookiesRawJSONXML

QueryString

Name	Value

Body

Name	Value
head	{"version": "1.0.1", "appid": "A004562875", "uploadtime": 1566634577940, "isencoded": "1"}
data	

TransformerHeadersTextViewSyntaxViewImageViewHexViewWebViewAuthCachingCookiesRawJSONXML

Response Headers

[Raw] [Header Definitions]

HTTP/1.1 200 OK

Cache

Date: Sat, 24 Aug 2019 08:16:17 GMT

Entity

Content-Length: 0

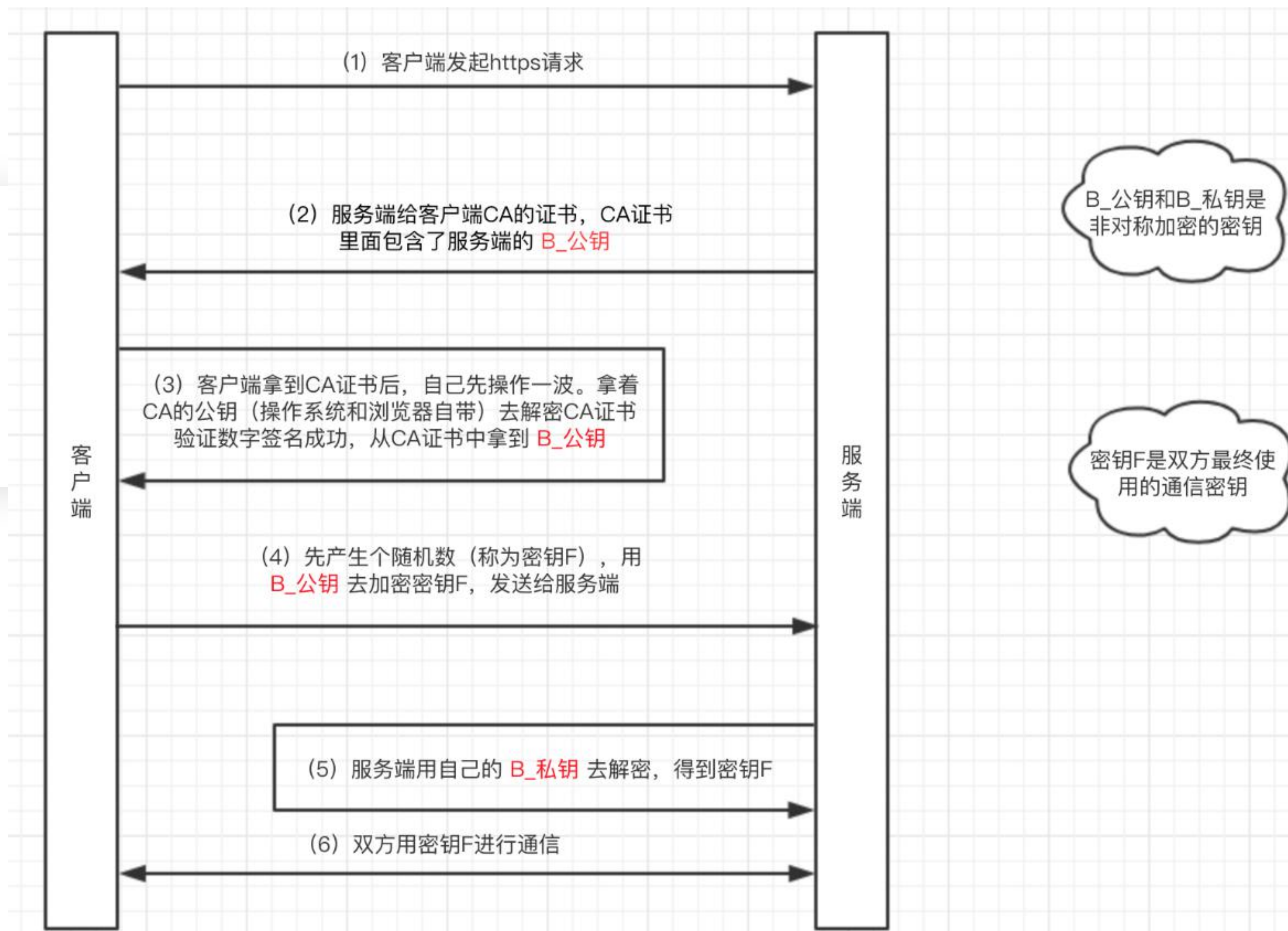
Miscellaneous

Server: nginx

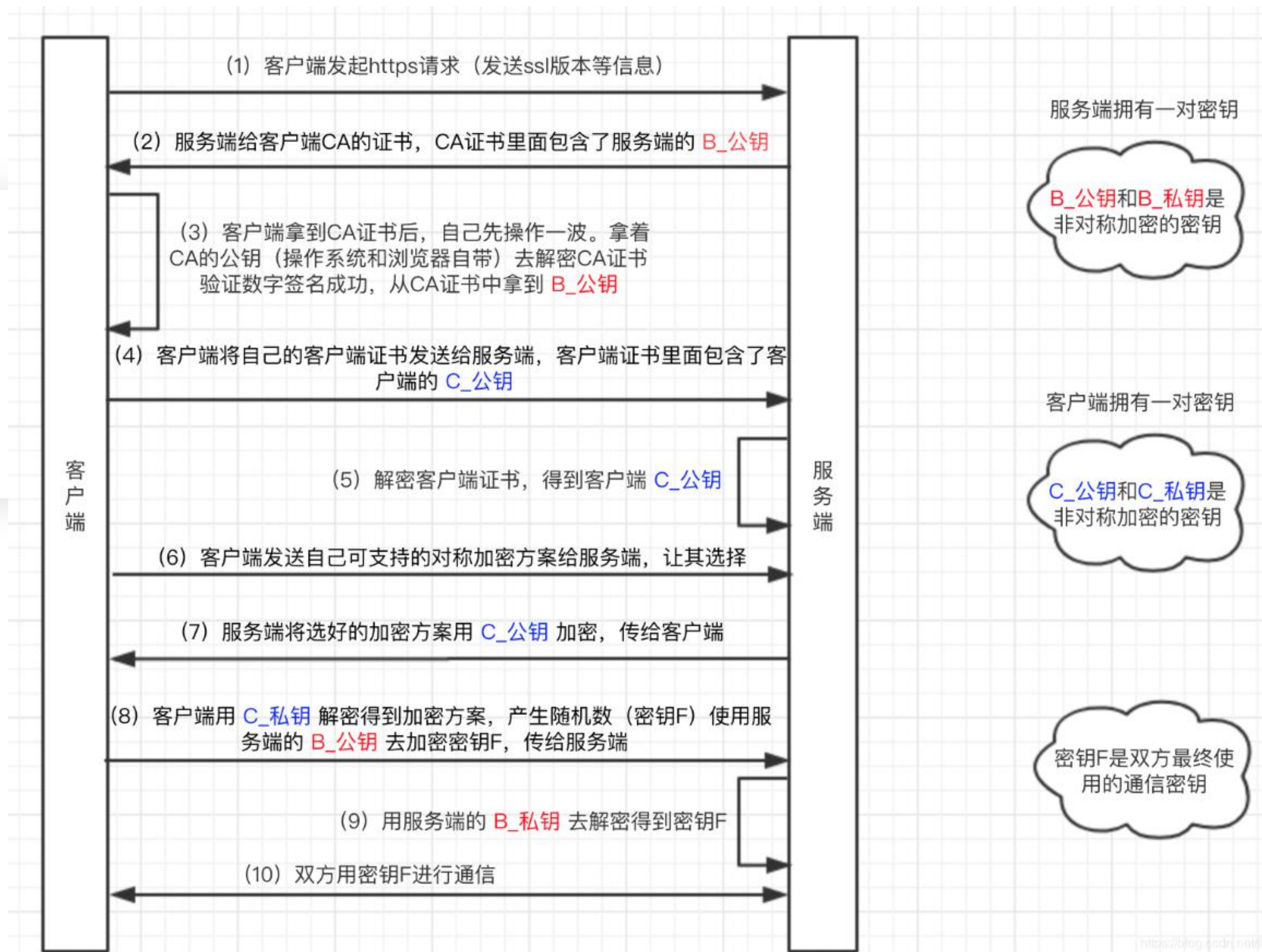
Transport

Connection: keep-alive

HTTPS单向认证



HTTPS双向认证



抓包原理

