# [漏洞预警]泛微e-cology OA Beanshell组件远程代码执行分析

清水川崎 亚信安全网络攻防实验室 6天前

## 漏洞描述

泛微e-cology OA系统由于某些功能引用BeanShell.jar开发,但BeanShell组件且开放未授权访问,攻击者调用BeanShell组件接口可直接在目标服务器上执行任意命令.目前漏洞的安全补丁已由泛微官方发布,可参阅文末.

#### CVE编号

暂无

### 漏洞威胁等级

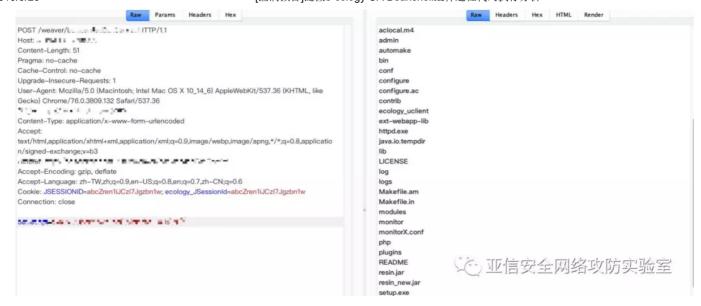
高危

#### 影响范围

包括不限于7.0,8.0,8.1

### 漏洞复现

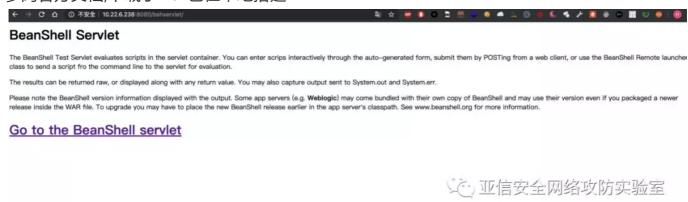
使用payload进行验证

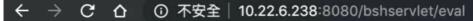


#### 简单分析

由于此次存在漏洞的jar是Beanshell,于是我研究了一下Beanshel.

参阅官方文档,下载了war包在本地搭建





# **BeanShell Test Servlet**

BeanShell version: 2.0b4

# **Script**

print("hello!");	
Capture Stdout/Stderr:   Display Raw Output:	
Evaluate	

② 亚信安全网络攻防实验室

根据官方文档说明,我直接执行一个os命令,得到了回显

```
// Do a loop
for (i=0; i<5; i++)
    print(i);

// Pop up a frame with a button in it
button = new JButton( "My Button" );
frame = new JFrame( "My Frame" );
frame.getContentPane().add( button, "Center" );
frame.pack();
frame.setVisible(true);</pre>
```

#### Jseful BeanShell Commands

the previous example we used a convenient "built-in" BeanShell command called print(), to display values. print() does pretty rothe command line. print() also displays some types of objects (such as arrays) more verbosely than Java would. Another relate ou type.

lere are a few other examples of BeanShell commands:

- source(), run() Read a bsh script into this interpreter, or run it in a new interpreter
- frame() Display a GUI component in a Frame or JFrame.
- load(), save() Load or save serializable objects to a file.
- cd(), cat(), dir(), pwd(), etc. Unix-like shell commands
- exec() Run a native application
- javap() Print the methods and fields of an object, similar to the output of the Java javap command.
- setAccessibility() Turn on unrestricted access to private and protected components.

iee the complete list of BeanShell Commands for more information.

#### Tip:

← → C ① 不安全 | 10.22.6.238:8080/bshservlet/eval

# **BeanShell Test Servlet**

BeanShell version: 2.0b4

### **Script Output**

bootstrap.jar catalina-tasks.xml catalina.bat catalina.sh commons-daemon-native.tar.gz commons-daemon.jar configtest.bat configtest.sh daemon.sh digest.bat digest.sh setclasspath.bat setclasspath.sh shutdown.bat shutdown.sh startup.bat startup.sh tomcat-juli.jar tomcat-native.tar.gz tool-wrapper.bat tool-wrapper.sh version.bat version.sh

### Script Return Value

null

#### Script



接着我到泛微e-cology OA环境下复现



# **BeanShell Test Servlet**

BeanShell version: 2.0b4

# **Script Output**

nt authority\system

# Script Return Value

null

## **Script**

t=0.5	- descrip

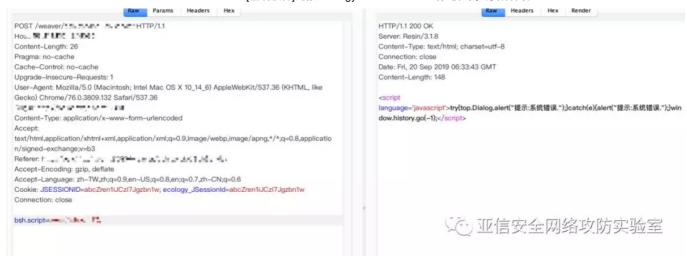
Capture Stdout/Stderr: 

Display Raw Output:

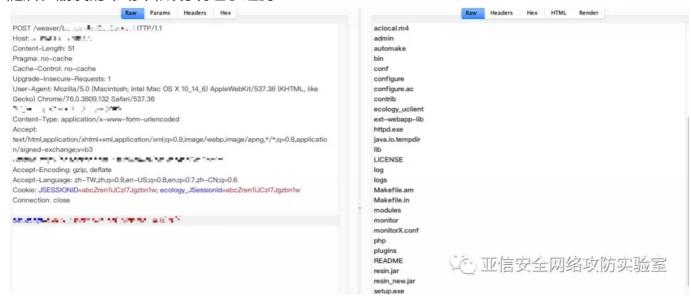
Evaluate

(全) 亚信安全网络攻防实验室

发现也成功了,但部分版本未成功,因为其做了全局函数过滤,需要绕过



#### 随后在朋友的帮助下,成功绕过了过滤



### 鸣谢(排名不分先后)

pyn3rd thesoul(404) lufei

#### Reference

Beanshell官方指南:

https://beanshell.github.io/

补丁包下载:

https://www.weaver.com.cn/cs/securityDownload.asp