专注APT攻击与防御
https://micropoor.blogspot.com/

注：请多喝点热水或者凉白开，可预防**肾结石**，**通风**等。
痛风可伴发肥胖症、高血压病、糖尿病、脂代谢紊乱等多种代谢性疾病。

攻击机： 192.168.1.102 Debian
靶机： 192.168.1.2 Windows 7
192.168.1.115 Windows 2003
192.168.1.119 Windows 2003

第一季主要介绍scanner下的五个模块，辅助发现内网存活主机，分别为：

- auxiliary/scanner/discovery/arp_sweep
- auxiliary/scanner/discovery/udp_sweep
- auxiliary/scanner/ftp/ftp_version
- auxiliary/scanner/http/http_version
- auxiliary/scanner/smb/smb_version

第二季主要介绍scanner下的五个模块，辅助发现内网存活主机，分别为：

- auxiliary/scanner/ssh/ssh_version
- auxiliary/scanner/telnet/telnet_version
- auxiliary/scanner/discovery/udp_probe
- auxiliary/scanner/dns/dns_amp
- auxiliary/scanner/mysql/mysql_version

第三季主要介绍scanner下的五个模块，辅助发现内网存活主机，分别为：

- auxiliary/scanner/netbios/nbname
- auxiliary/scanner/http/title
- auxiliary/scanner/db2/db2_version
- auxiliary/scanner/portscan/ack
- auxiliary/scanner/portscan/tcp

第四季主要介绍scanner下的五个模块，辅助发现内网存活主机，分别为：

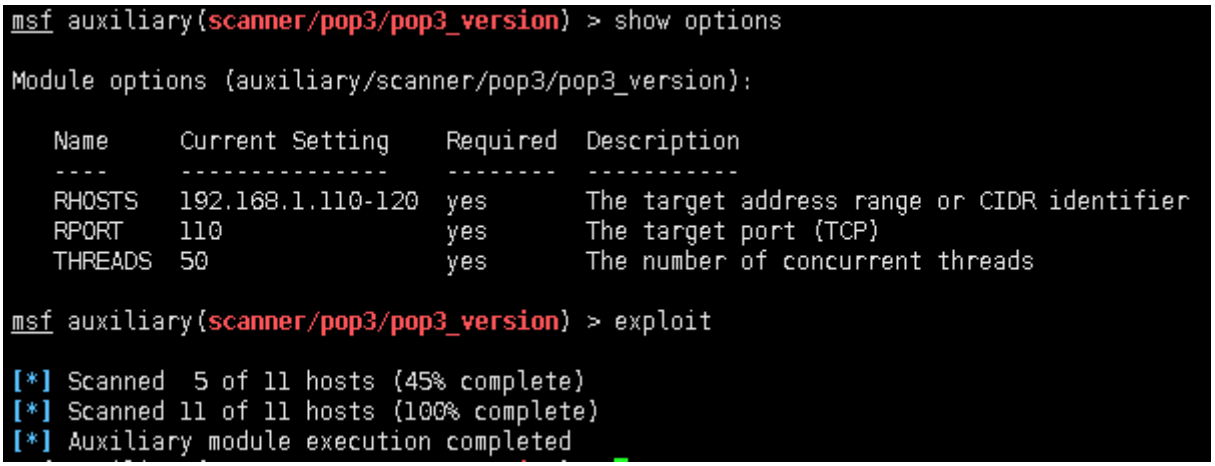
- auxiliary/scanner/portscan/syn
- auxiliary/scanner/portscan/ftpbounce
- auxiliary/scanner/portscan/xmas
- auxiliary/scanner/rdp/rdp_scanner
- auxiliary/scanner/smtp/smtp_version

第五季主要介绍scanner下的三个模块，以及db_nmap辅助发现内网存活主机，分别为：

- auxiliary/scanner/pop3/pop3_version
- auxiliary/scanner/postgres/postgres_version
- auxiliary/scanner/ftp/anonymous
- db_nmap

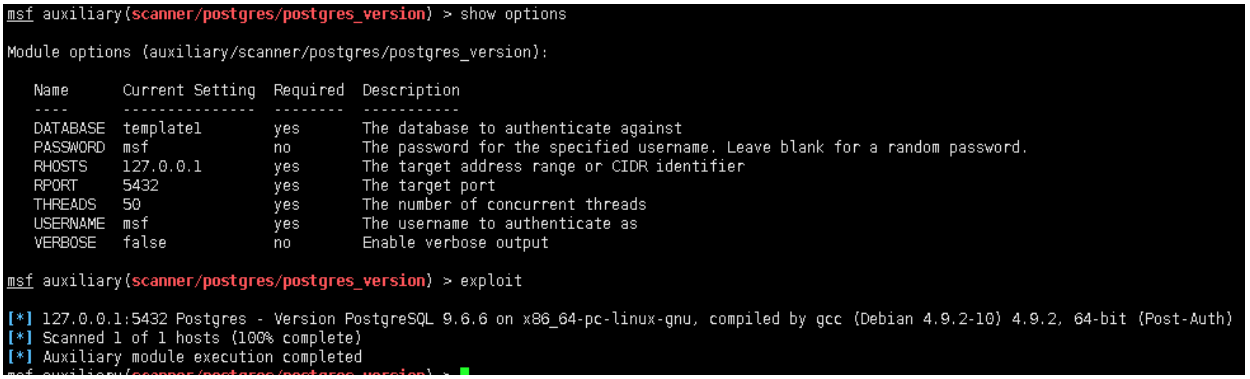
- 二十一：基于auxiliary/scanner/pop3/pop3_version发现内网存活主机

```
msf auxiliary(scanner/pop3/pop3_version) > show options

Module options (auxiliary/scanner/pop3/pop3_version):

   Name  Current Setting  Required  Description
   ----  ---------------  --------  -----------
   RHOSTS  192.168.1.110-120  yes  The target address range or CIDR identifier
   RPORT  110  yes  The target port (TCP)
   THREADS  50  yes  The number of concurrent threads

msf auxiliary(scanner/pop3/pop3_version) > exploit

[*] Scanned 5 of 11 hosts (45% complete)
[*] Scanned 11 of 11 hosts (100% complete)
[*] Auxiliary module execution completed
```



- 二十二：基于auxiliary/scanner/postgres/postgres_version发现内网存活主机

```
msf auxiliary(scanner/postgres/postgres_version) > show options

Module options (auxiliary/scanner/postgres/postgres_version):

 Name Current Setting Required Description
 ---- --------------- -------- -----------
 DATABASE template1 yes The database to authenticate against
 PASSWORD msf no The password for the specified username. Leave blank for a random password.
 RHOSTS 127.0.0.1 yes The target address range or CIDR identifier
 RPORT 5432 yes The target port
 THREADS 50 yes The number of concurrent threads
 USERNAME msf yes The username to authenticate as
 VERBOSE false no Enable verbose output

msf auxiliary(scanner/postgres/postgres_version) > exploit

[*] 127.0.0.1:5432 Postgres - Version PostgreSQL 9.6.6 on x86_64-pc-linux-gnu, compiled by gcc (Debian 4.9.2-10) 4.9.2, 64-bit (Post-Auth)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```



- 二十三：基于auxiliary/scanner/ftp/anonymous发现内网存活主机

```
msf auxiliary(scanner/ftp/anonymous) > show options

Module options (auxiliary/scanner/ftp/anonymous):

   Name      Current Setting             Required  Description
   ----      ---------------             --------  -----------
   FTPPASS   mozilla@example.com         no        The password for the specified username
   FTPUSER   anonymous                   no        The username to authenticate as
   RHOSTS    192.168.1.100-120           yes       The target address range or CIDR identifier
   RPORT     21                          yes       The target port (TCP)
   THREADS   50                          yes       The number of concurrent threads

msf auxiliary(scanner/ftp/anonymous) > exploit

[+] 192.168.1.115:21 - 192.168.1.115:21 - Anonymous READ (220 Slyar Ftpserver)
[+] 192.168.1.119:21 - 192.168.1.119:21 - Anonymous READ (220 FTPserver)
[*] Scanned 3 of 21 hosts (14% complete)
[*] Scanned 6 of 21 hosts (28% complete)
[*] Scanned 17 of 21 hosts (80% complete)
[*] Scanned 21 of 21 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
msf auxiliary(scanner/ftp/anonymous) > show options

Module options (auxiliary/scanner/ftp/anonymous):

   Name     Current Setting      Required  Description
   ----     ---------------      --------  -----------
   FTPPASS  mozilla@example.com  no        The password for the specified username
   FTPUSER  anonymous            no        The username to authenticate as
   RHOSTS   192.168.1.100-120    yes       The target address range or CIDR identifier
   RPORT    21                   yes       The target port (TCP)
   THREADS  50                   yes       The number of concurrent threads

msf auxiliary(scanner/ftp/anonymous) > exploit

[+] 192.168.1.115:21      - 192.168.1.115:21 - Anonymous READ (220 Slyar Ftpserver)
[+] 192.168.1.119:21      - 192.168.1.119:21 - Anonymous READ (220 FTPserver)
[*] Scanned  3 of 21 hosts (14% complete)
[*] Scanned  6 of 21 hosts (28% complete)
[*] Scanned 17 of 21 hosts (80% complete)
[*] Scanned 21 of 21 hosts (100% complete)
[*] Auxiliary module execution completed
```

- 二十四：基于db_nmap发现内网存活主机

MSF内置强大的端口扫描工具Nmap，为了更好的区别，内置命令为：db_nmap，并且会自动存储nmap扫描结果到数据库中，方便快速查询已知存活主机，以及更快捷的进行团队协同作战，使用方法与nmap一致。也是在实战中最常用到的发现内网存活主机方式之一。

例：

```
msf exploit(multi/handler) > db_nmap -p 445 -T4 -sT 192.168.1.115-120 --open
[*] Nmap: Starting Nmap 7.70 ( https://nmap.org ) at 2019-02-17 15:17 EST
[*] Nmap: Nmap scan report for 192.168.1.115
[*] Nmap: Host is up (0.0025s latency).
[*] Nmap: PORT STATE SERVICE
[*] Nmap: 445/tcp open microsoft-ds
[*] Nmap: MAC Address: 00:0C:29:AF:CE:CC (VMware)
[*] Nmap: Nmap scan report for 192.168.1.119
[*] Nmap: Host is up (0.0026s latency).
[*] Nmap: PORT STATE SERVICE
[*] Nmap: 445/tcp open microsoft-ds
[*] Nmap: MAC Address: 00:0C:29:85:D6:7D (VMware)
[*] Nmap: Nmap done: 6 IP addresses (2 hosts up) scanned in 13.35 seconds
```

```
msf exploit(multi/handler) > db_nmap -p 445 -T4 -sT 192.168.1.115-120 --open
[*] Nmap: Starting Nmap 7.70 ( https://nmap.org ) at 2019-02-17 15:17 EST
[*] Nmap: Nmap scan report for 192.168.1.115
[*] Nmap: Host is up (0.0025s latency).
[*] Nmap: PORT    STATE SERVICE
[*] Nmap: 445/tcp open  microsoft-ds
[*] Nmap: MAC Address: 00:0C:29:AF:CE:CC (VMware)
[*] Nmap: Nmap scan report for 192.168.1.119
[*] Nmap: Host is up (0.0026s latency).
[*] Nmap: PORT    STATE SERVICE
[*] Nmap: 445/tcp open  microsoft-ds
[*] Nmap: MAC Address: 00:0C:29:85:D6:7D (VMware)
[*] Nmap: Nmap done: 6 IP addresses (2 hosts up) scanned in 13.35 seconds
```

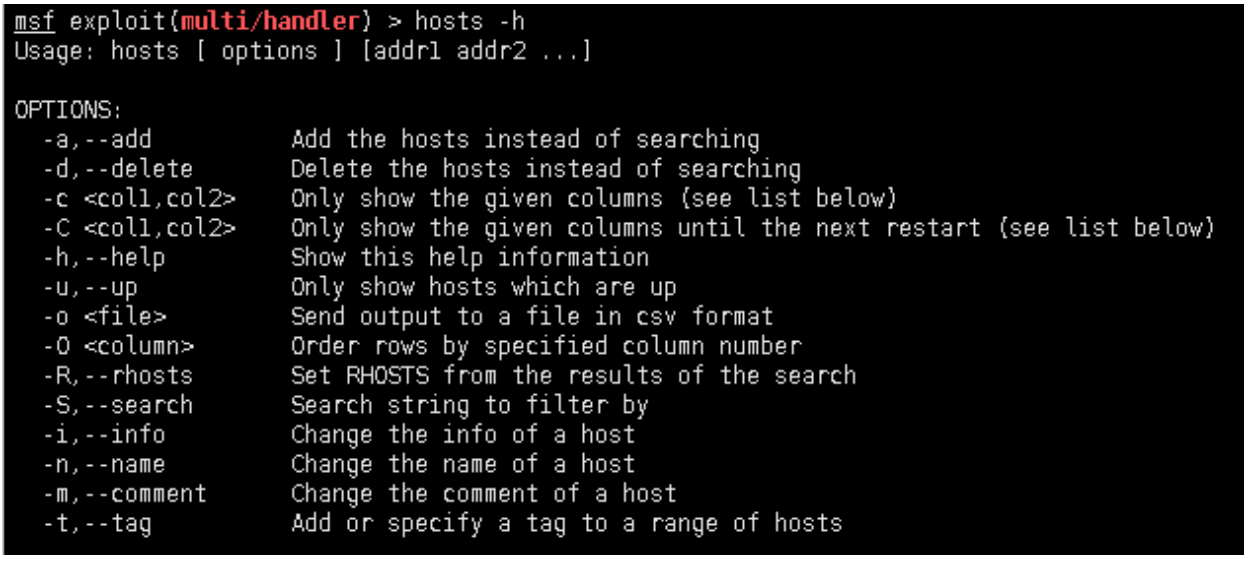
命令hosts查看数据库中已发现的内网存活主机

```
msf exploit(multi/handler) > hosts

Hosts
=====

address mac name os_name os_flavor os_sp purpose info comments
------- --- ---- ------- --------- ----- ------- ---- --------
1.34.37.188 firewall
10.0.0.2 00:24:1d:dc:3b:16
 10.0.0.3 00:e0:81:bf:b9:7b
 10.0.0.4 00:30:6e:ca:10:b8
 10.0.0.5 9c:8e:99:c4:63:74 2013XXXXX Windows 2008 SP1 client
 ...
 10.0.0.242 00:13:57:01:d4:71
 10.0.0.243 00:13:57:01:d4:73
 ....
 10.162.110.30 firewall
 59.125.110.178 firewall
 127.0.0.1 Unknown device
 172.16.204.8 WIN-6FEAACQJ691 Windows 2012 server
 172.16.204.9 WIN-6FEAACQJ691 Windows 2012 server
 172.16.204.21 IDS Windows 2003 SP2 server
 192.168.1.5 JOHN-PC Windows 7 SP1 client
 192.168.1.101 JOHN-PC Windows 7 Ultimate SP1 client
 192.168.1.103 LAPTOP-9994K8RP Windows 10 client
 192.168.1.115 00:0c:29:af:ce:cc VM_2003X86 Windows 2003 SP2 server
 192.168.1.116 WIN-S4H51RDJQ3M Windows 2012 server
```

```
192.168.1.119 00:0c:29:85:d6:7d WIN03X64 Windows 2003 SP2 server
192.168.1.254 Unknown device
192.168.50.30 WINDOWS-G4MMTV8 Windows 7 SP1 client
192.168.100.2 Unknown device
192.168.100.10
```

同样hosts命令也支持数据库中查询与搜索，方便快速对应目标存活主机。

```
msf exploit(multi/handler) > hosts -h
Usage: hosts [ options ] [addr1 addr2 ...]

OPTIONS:
  -a,--add Add the hosts instead of searching
  -d,--delete Delete the hosts instead of searching
  -c <col1,col2> Only show the given columns (see list below)
  -C <col1,col2> Only show the given columns until the next restart (see list below)
  -h,--help Show this help information
  -u,--up Only show hosts which are up
  -o <file> Send output to a file in csv format
  -O <column> Order rows by specified column number
  -R,--rhosts Set RHOSTS from the results of the search
  -S,--search Search string to filter by
  -i,--info Change the info of a host
  -n,--name Change the name of a host
  -m,--comment Change the comment of a host
  -t,--tag Add or specify a tag to a range of hosts
```



```
msf exploit(multi/handler) > hosts -S 192

Hosts
=====

address mac name os_name os_flavor os_sp purpose info comments
------- --- ---- ------- --------- ----- ------- ---- --------
192.168.1.5 JOHN-PC Windows 7 SP1 client
192.168.1.101 JOHN-PC Windows 7 Ultimate SP1 client
 192.168.1.103 LAPTOP-9994K8RP Windows 10 client
 192.168.1.115 00:0c:29:af:ce:cc VM_2003X86 Windows 2003 SP2 server
 192.168.1.116 WIN-S4H51RDJQ3M Windows 2012 server
 192.168.1.119 00:0c:29:85:d6:7d WIN03X64 Windows 2003 SP2 server
 192.168.1.254 Unknown device
 192.168.50.30 WINDOWS-G4MMTV8 Windows 7 SP1 client
 192.168.100.2 Unknown device
 192.168.100.10
```

```
msf exploit(multi/handler) > hosts -S 192

Hosts
=====

address         mac               name            os_name      os_flavor  os_sp  purpose  info  comments
-------         ---               ----            -------      ---------  -----  -------  ----  --------
192.168.1.5                       JOHN-PC         Windows 7               SP1    client
192.168.1.101                     JOHN-PC         Windows 7    Ultimate   SP1    client
192.168.1.103                     LAPTOP-9994K8RP Windows 10              client
192.168.1.115   00:0c:29:af:ce:cc  VM_2003X86      Windows 2003            SP2    server
192.168.1.116                     WIN-S4H51RDJQ3M Windows 2012            server
192.168.1.119   00:0c:29:85:d6:7d  WIN03X64        Windows 2003            SP2    server
192.168.1.254                                     Unknown                 device
192.168.50.30                     WINDOWS-G4MMTV8 Windows 7               SP1    client
192.168.100.2                                     Unknown                 device
192.168.100.10
```

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