专注APT攻击与防御
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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： 192.168.1.5 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

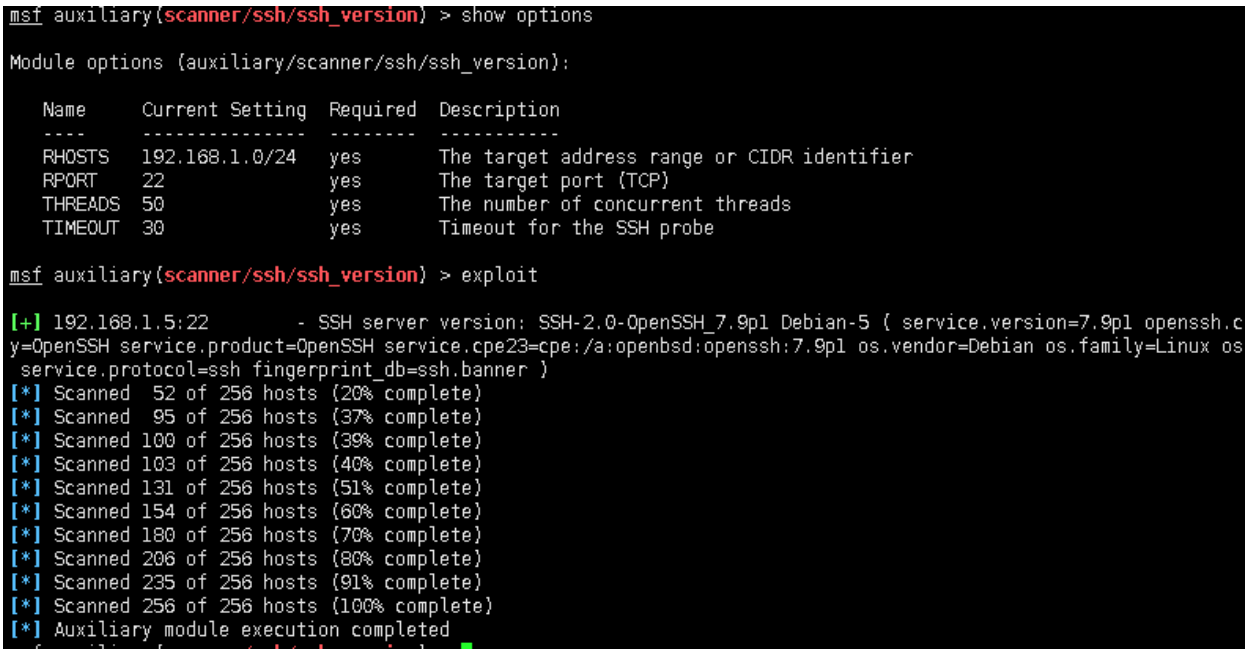
第二季主要介绍scanner下的五个模块，辅助发现内网存活主机，分别为：

- 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

- 六：基于auxiliary/scanner/ssh/ssh_version发现SSH服务

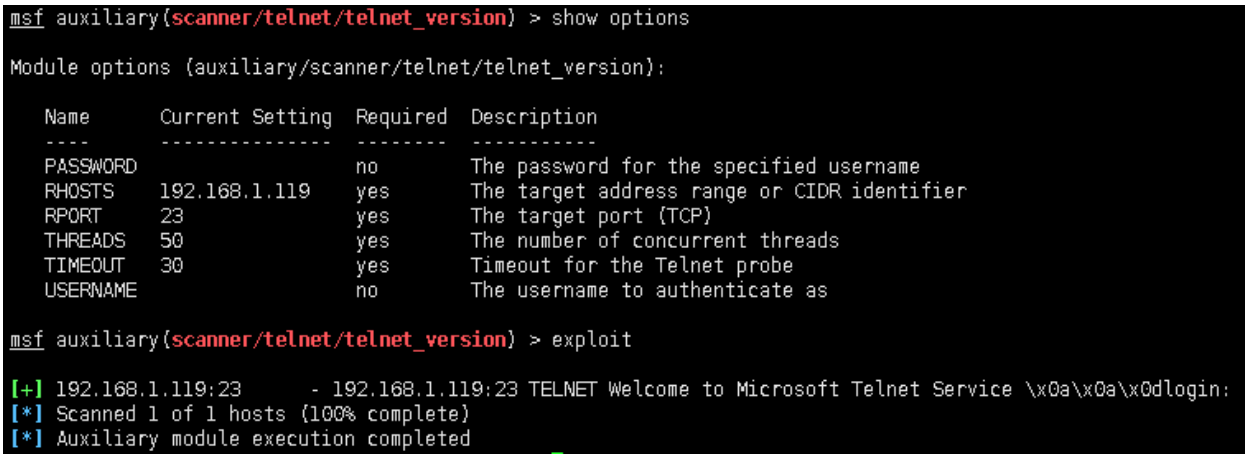
```
msf auxiliary(scanner/ssh/ssh_version) > show options

Module options (auxiliary/scanner/ssh/ssh_version):

 Name Current Setting Required Description
```

```
6   ---- --------------- -------- -----------
7   RHOSTS 192.168.1.0/24 yes The target address range or CIDR identifier
8   RPORT 22 yes The target port (TCP)
9   THREADS 50 yes The number of concurrent threads
10   TIMEOUT 30 yes Timeout for the SSH probe
11
12  msf auxiliary(scanner/ssh/ssh_version) > exploit
13
14  [+] 192.168.1.5:22 - SSH server version: SSH-2.0-OpenSSH_7.9p1 Debian-
5 ( service.version=7.9p1 openssh.comment=Debian-5 service.vendor=OpenBSD
service.family=OpenSSH service.product=OpenSSH service.cpe23=cpe:/a:openb
sd:openssh:7.9p1 os.vendor=Debian os.family=Linux os.product=Linux os.cpe
23=cpe:/o:debian:debian_linux:- service.protocol=ssh fingerprint_db=ssh.b
anner )
15  [*] Scanned 52 of 256 hosts (20% complete)
16  [*] Scanned 95 of 256 hosts (37% complete)
17  [*] Scanned 100 of 256 hosts (39% complete)
18  [*] Scanned 103 of 256 hosts (40% complete)
19  [*] Scanned 131 of 256 hosts (51% complete)
20  [*] Scanned 154 of 256 hosts (60% complete)
21  [*] Scanned 180 of 256 hosts (70% complete)
22  [*] Scanned 206 of 256 hosts (80% complete)
23  [*] Scanned 235 of 256 hosts (91% complete)
24  [*] Scanned 256 of 256 hosts (100% complete)
25  [*] Auxiliary module execution completed
```



- 七：基于auxiliary/scanner/telnet/telnet_version发现TELNET服务

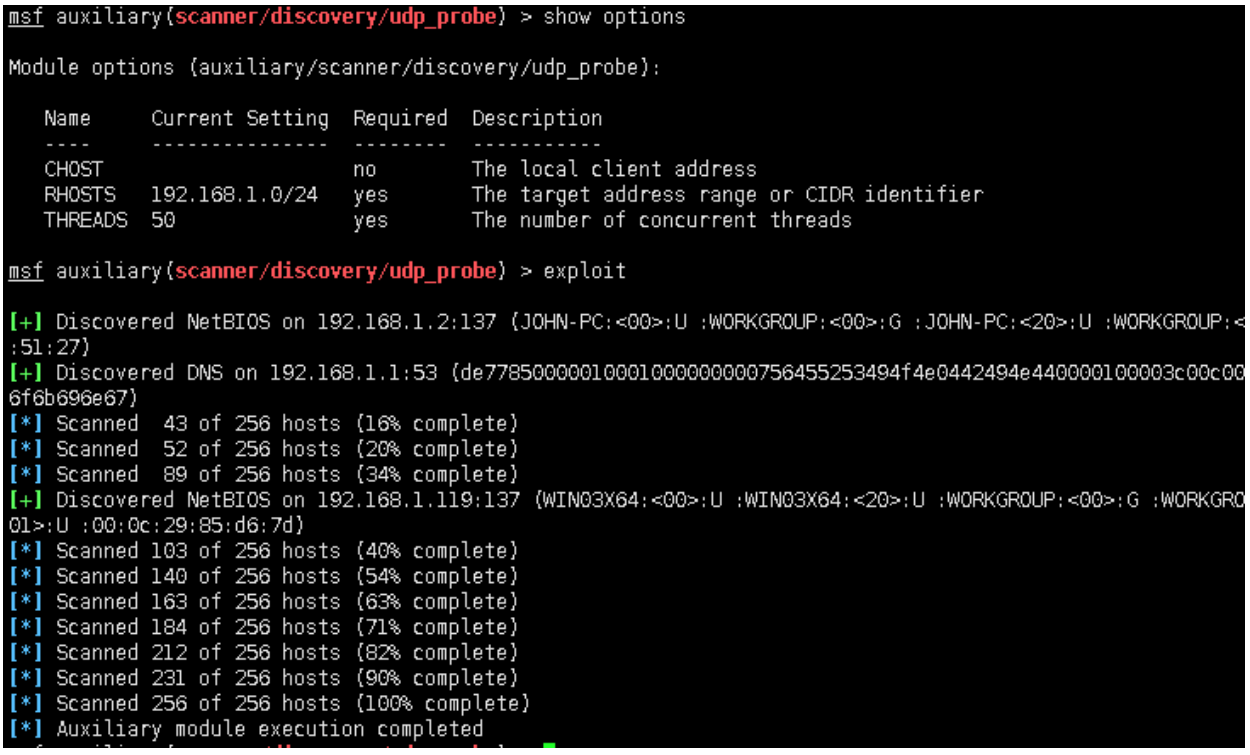
```
msf auxiliary(scanner/telnet/telnet_version) > show options

Module options (auxiliary/scanner/telnet/telnet_version):

 Name Current Setting Required Description
 ---- --------------- -------- -----------
 PASSWORD no The password for the specified username
 RHOSTS 192.168.1.119 yes The target address range or CIDR identifier
 RPORT 23 yes The target port (TCP)
  THREADS 50 yes The number of concurrent threads
  TIMEOUT 30 yes Timeout for the Telnet probe
  USERNAME no The username to authenticate as

 msf auxiliary(scanner/telnet/telnet_version) > exploit

 [+] 192.168.1.119:23 - 192.168.1.119:23 TELNET Welcome to Microsoft Te
lnet Service \x0a\x0a\x0dlogin:
 [*] Scanned 1 of 1 hosts (100% complete)
 [*] Auxiliary module execution completed
```



- 八：基于scanner/discovery/udp_probe发现内网存活主机

```
msf auxiliary(scanner/discovery/udp_probe) > show options

Module options (auxiliary/scanner/discovery/udp_probe):

 Name Current Setting Required Description
 ---- --------------- -------- -----------
 CHOST no The local client address
```

```
RHOSTS 192.168.1.0/24 yes The target address range or CIDR identifier
THREADS 50 yes The number of concurrent threads

msf auxiliary(scanner/discovery/udp_probe) > exploit

[+] Discovered NetBIOS on 192.168.1.2:137 (JOHN-PC:<00>:U :WORKGROUP:
<00>:G :JOHN-PC:<20>:U :WORKGROUP:<1e>:G :WORKGROUP:<1d>:U :__MSBROWSE__
<01>:G :4c:cc:6a:e3:51:27)
[+] Discovered DNS on 192.168.1.1:53 (de778500000100010000000007564552
53494f4e0442494e440000100003c00c00100003000000001001a19737572656c7920796f7
5206d757374206265206a6f6b696e67)
[*] Scanned 43 of 256 hosts (16% complete)
[*] Scanned 52 of 256 hosts (20% complete)
[*] Scanned 89 of 256 hosts (34% complete)
[+] Discovered NetBIOS on 192.168.1.119:137 (WIN03X64:<00>:U :WIN03X6
4:<20>:U :WORKGROUP:<00>:G :WORKGROUP:<1e>:G :WIN03X64:<03>:U :ADMINISTRA
TOR:<03>:U :WIN03X64:<01>:U :00:0c:29:85:d6:7d)
[*] Scanned 103 of 256 hosts (40% complete)
[*] Scanned 140 of 256 hosts (54% complete)
[*] Scanned 163 of 256 hosts (63% complete)
[*] Scanned 184 of 256 hosts (71% complete)
[*] Scanned 212 of 256 hosts (82% complete)
[*] Scanned 231 of 256 hosts (90% complete)
[*] Scanned 256 of 256 hosts (100% complete)
[*] Auxiliary module execution completed
```



- 九：基于auxiliary/scanner/dns/dns_amp发现内网存活主机

```
msf auxiliary(scanner/dns/dns_amp) > show options

Module options (auxiliary/scanner/dns/dns_amp):

 Name Current Setting Required Description
 ---- --------------- -------- -----------
 BATCHSIZE 256 yes The number of hosts to probe in each set
 DOMAINNAME isc.org yes Domain to use for the DNS request
 FILTER no The filter string for capturing traffic
  INTERFACE no The name of the interface
  PCAPFILE no The name of the PCAP capture file to process
 QUERYTYPE ANY yes Query type(A, NS, SOA, MX, TXT, AAAA, RRSIG,
DNSKEY, ANY)
  RHOSTS 192.168.1.0/24 yes The target address range or CIDR identifier
  RPORT 53 yes The target port (UDP)
  SNAPLEN 65535 yes The number of bytes to capture
  THREADS 50 yes The number of concurrent threads
  TIMEOUT 500 yes The number of seconds to wait for new data

msf auxiliary(scanner/dns/dns_amp) > exploit

[*] Sending DNS probes to 192.168.1.0->192.168.1.255 (256 hosts)
[*] Sending 67 bytes to each host using the IN ANY isc.org request
[+] 192.168.1.1:53 - Response is 530 bytes [7.91x Amplification]
[*] Scanned 256 of 256 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
msf auxiliary(scanner/dns/dns_amp) > show options

Module options (auxiliary/scanner/dns/dns_amp):

   Name        Current Setting  Required  Description
   ----        ---------------  --------  -----------
   BATCHSIZE   256              yes       The number of hosts to probe in each set
   DOMAINNAME  isc.org          yes       Domain to use for the DNS request
   FILTER                       no        The filter string for capturing traffic
   INTERFACE                    no        The name of the interface
   PCAPFILE                     no        The name of the PCAP capture file to process
   QUERYTYPE   ANY              yes       Query type(A, NS, SOA, MX, TXT, AAAA, RRSIG, DNSKEY, ANY)
   RHOSTS      192.168.1.0/24   yes       The target address range or CIDR identifier
   RPORT       53               yes       The target port (UDP)
   SNAPLEN     65535            yes       The number of bytes to capture
   THREADS     50               yes       The number of concurrent threads
   TIMEOUT     500              yes       The number of seconds to wait for new data

msf auxiliary(scanner/dns/dns_amp) > exploit

[*] Sending DNS probes to 192.168.1.0->192.168.1.255 (256 hosts)
[*] Sending 67 bytes to each host using the IN ANY isc.org request
[+] 192.168.1.1:53 - Response is 530 bytes [7.91x Amplification]
[*] Scanned 256 of 256 hosts (100% complete)
[*] Auxiliary module execution completed
```

- 十：基于auxiliary/scanner/mysql/mysql_version发现mysql服务

```
msf auxiliary(scanner/mysql/mysql_version) > show options

Module options (auxiliary/scanner/mysql/mysql_version):

 Name Current Setting Required Description
 ---- --------------- -------- -----------
 RHOSTS 192.168.1.115 yes The target address range or CIDR identifier
 RPORT 3306 yes The target port (TCP)
 THREADS 50 yes The number of concurrent threads

msf auxiliary(scanner/mysql/mysql_version) > exploit

[+] 192.168.1.115:3306 - 192.168.1.115:3306 is running MySQL 5.1.52-community (protocol 10)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
msf auxiliary(scanner/mysql/mysql_version) > show options

Module options (auxiliary/scanner/mysql/mysql_version):

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOSTS   192.168.1.115    yes       The target address range or CIDR identifier
   RPORT    3306             yes       The target port (TCP)
   THREADS  50               yes       The number of concurrent threads

msf auxiliary(scanner/mysql/mysql_version) > exploit

[+] 192.168.1.115:3306    - 192.168.1.115:3306 is running MySQL 5.1.52-community (protocol 10)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

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