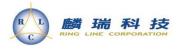


# 談UDP放大攻擊

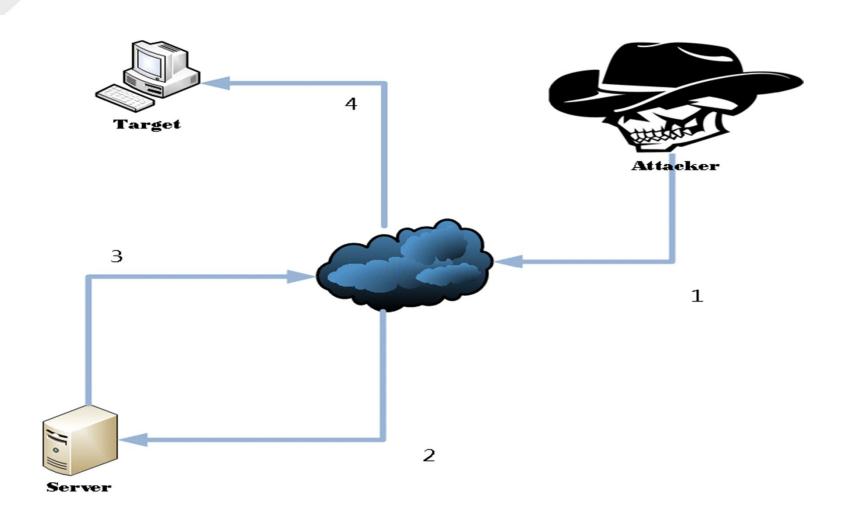
#### Jonce kuo



2014/05/21



# 常見的攻擊型態







# 常見的攻擊型態

通訊協定	頻寬放大倍率	具有弱點的指令
DNS	28~54	DNS 遞迴查詢
NTP	556.9	monlist
SNMPv2	6.3	GetBulk request
NetBIOS	3.8	Name resolution
SSDP	30.8	SEARCH request
CharGEN	358.8	Character generation request
QOTD	3.8	Quote request
BitTorrent	16.3	Peer list exchange
Quake Network Protocol	63.9	Server info exchange
Steam Protocol	5.5	Server info exchange





# 常見的攻擊型態NTP ntpdc -c monlist SERVERIP

```
Sterting Namp 6.40 ( http://nmmp.org ) at 2014-02-28 17:12 CST
Namp scan report for a perit delivers in the state of the s
                              ղջինի - Բերթու/հրատ / james # nmap -sU -pU:123 -Pn --script=ntp-monlist անդերական և մեն
```





## 常見的攻擊型態Chargen

\$ telnet localhost chargen

Trying 127.0.0.1...

Connected to localhost.

Escape character is '^]'.

telnet> quit

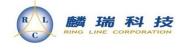
Connection closed.





### DNS UDP放大攻擊對策

```
停用DNS Server的遞迴查詢功能
options {
  allow-query-cache { none; };
  recursion no;
} ;
僅允許內部網路能來做遞迴查詢:(此例中允許任何IP做查詢,但是只允許192.168.1.0/24, 192.168.2.0/24 來做遞迴查詢)
acl corpnets { 192.168.1.0/24; 192.168.2.0/24; };
options {
 allow-query { any; };
 allow-recursion { corpnets; };
};
限制查詢的頻率:(此例子中限制為一秒5個查詢,bind 9.8以後支援)
rate-limit {
  responses-per-second 5;
  window 5;
};
```

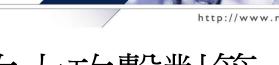




修改ntpd的設定檔,在Un\*x系列上預設是在/etc/ntp.conf

restrict default kod nomodify notrap nopeer noquery restrict -6 default kod nomodify notrap nopeer noquery





## SNMP UDP放大攻擊對策

### snmp-server community cisco-rlc RO 66

#此行指令設定唯讀(RO Read Only)的snmp community為cisco-rlc並且指定套用存取列表66

snmp-server community rlc-cisco RW 77

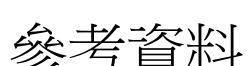
#此行指令設定讀寫(RW Read Write)的snmp community為rlc-cisco並且指定套用存取列表77

access-list 66 permit ip host 172.16.6.100

access-list 77 permit ip host 172.16.6.101

這兩行存取列表 66僅允許172.16.6.100 ,存取列表77僅允許 172.16.6.101





- http://www.us-cert.gov/ncas/alerts/TA14-017A
- http://www.us-cert.gov/ncas/alerts/TA13-088A
- http://www.us-cert.gov/ncas/alerts/TA14-013A
- <a href="http://www.cisco.com/c/en/us/support/docs/ip/simple-network-management-protocol-snmp/20370-snmpsecurity-20370.html">http://www.cisco.com/c/en/us/support/docs/ip/simple-network-management-protocol-snmp/20370-snmpsecurity-20370.html</a>