

# **Scan of the Month #28**

Submitted by Rick Hayes

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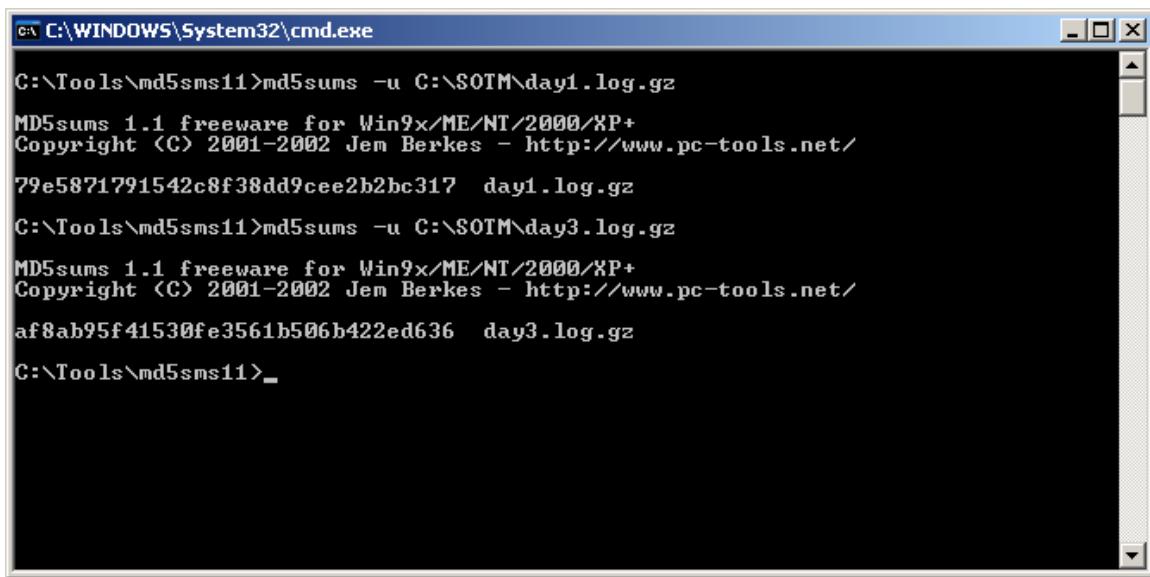
## **The Challenge**

Members of the [AT&T Mexico Honeynet](#) captured a unique attack. As common, what is interesting is not how the attackers broke in, but what they did afterwards. Your mission is to analyze the network capture of the attacker's activity and decode the attacker's actions. There are two binary log files. Day1 captured the break in; Day3 captures some unique activity following the compromise. The honeypot in question is IP 192.168.100.28.

## **Analysis**

### **Verification of the log signature**

Analysis was performed entirely on a Windows XP machine. To begin the analysis, first it was necessary to download the log and verify its authenticity. I then had to extract the actual log must be from the compressed archive:



C:\>Tools\md5sums11>md5sums -u C:\SOTM\day1.log.gz  
MD5sums 1.1 freeware for Win9x/ME/NT/2000/XP+  
Copyright (C) 2001-2002 Jem Berkes - http://www.pc-tools.net/  
79e5871791542c8f38dd9cee2b2bc317 day1.log.gz  
C:\>Tools\md5sums11>md5sums -u C:\SOTM\day3.log.gz  
MD5sums 1.1 freeware for Win9x/ME/NT/2000/XP+  
Copyright (C) 2001-2002 Jem Berkes - http://www.pc-tools.net/  
af8ab95f41530fe3561b506b422ed636 day3.log.gz  
C:\>Tools\md5sums11>\_

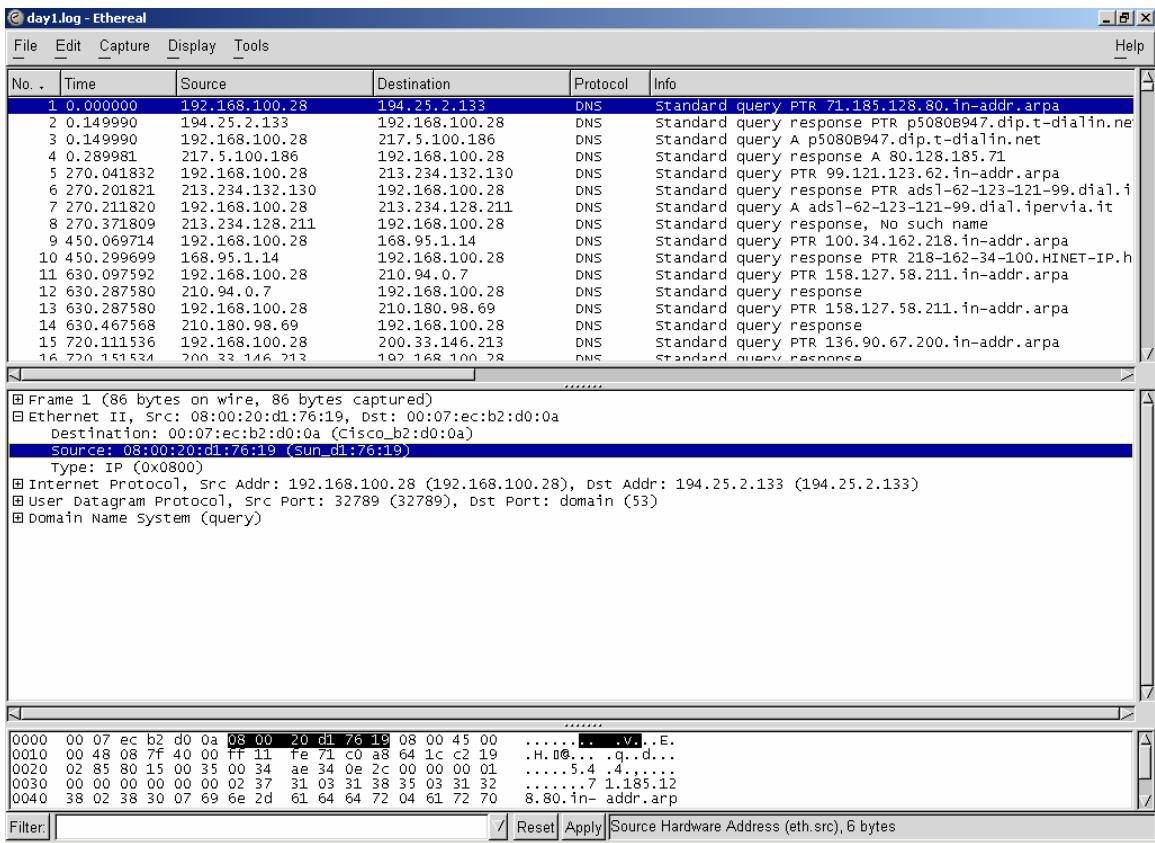
## Tools Used

During the analysis of this scan, we used the following tools:

Tool	Description	Location
md5sum	Calculates a checksum of a file. Often used to verify downloads.	<a href="http://www.pc-tools.net/win32/freeware/md5sums/">http://www.pc-tools.net/win32/freeware/md5sums/</a>
windump	Used to capture packets from the network, or to read previously saved packets.	<a href="http://windump.polito.it/">http://windump.polito.it/</a>
ethereal	Similar to tcpdump, but has a GUI frontend, and several helpful features.	<a href="http://www.ethereal.com">http://www.ethereal.com</a>
snort	A network based intrusion detection system.	<a href="http://www.snort.org">http://www.snort.org</a>

## Process

First, I opened the log with Ethereal to begin the process of checking for the operating system of the victim.



This yielded some information about the source and destinations. It also allowed me to be able to see the TTL, window size, etc. I used this information along with the Passive Fingerprinting Default TTL values whitepaper to conclude the operating system of the honeypot. After looking through Ethereal it became apparent that several of these attempts were simply DNS queries and responses. Several interesting frames were found that indicated more than DNS queries were being performed. Two rather interesting packets were attempts to perform NetBIOS queries. I decided to take the two logs and run them through snort.

```
C:\Windows\System32\cmd.exe - snort.exe -vde -r c:\SOTM\day1.log\day1.log -c c:\snort\etc\snort.conf -1 c:\snort\log
Running in IDS mode
Log directory = c:\snort\log
TCPDUMP file reading mode.
Reading network traffic from "c:\SOTM\day1.log\day1.log" file.
snaplen = 1514

    === Initializing Snort ===
Initializing Output Plugins!
Initializing Preprocessors!
Initializing Plug-ins!
Parsing Rules file c:\snort\etc\snort.conf

+++++
Initializing rule chains...
No arguments to frag2 directive, setting defaults to:
    Fragment timeout: 60 seconds
    Fragment memory cap: 4194304 bytes
    Fragment min_ttl: 0
    Fragment ttl_limit: 5
    Fragment Problems: 0
    Self preservation threshold: 500
    Self preservation period: 90
```

This provided some assurances that what was visible with Ethereal was certainly suspicious activity. Now I needed to see who the primary participants were. So, I then ran the logs through tethereal to determine this.

```
C:\Select C:\Windows\System32\cmd.exe

C:\Perl\scripts>c:\Program^1\ethereal\tethereal.exe -nr c:\sotm\day1\log\day1.log
! perl sumsrcdst.pl > traffic.stats
tethereal: The file "c:\sotm\day1\log\day1.log" does not exist.

C:\Perl\scripts>c:\Program^1\ethereal\tethereal.exe -nr c:\sotm\day1\log\day1.log
! perl sumsrcdst.pl > traffic.stats

C:\Perl\scripts>dir
Volume in drive C has no label.
Volume Serial Number is 68BD-56F3

Directory of C:\Perl\scripts

05/15/2003  10:56 AM    <DIR>
05/15/2003  10:56 AM    <DIR>          .
05/15/2003  10:54 AM           494 sumsrcdst.pl
05/15/2003  10:57 AM           43,014 traffic.stats
              2 File(s)        43,508 bytes
              2 Dir(s)   17,751,916,544 bytes free

C:\Perl\scripts>c:\Program^1\ethereal\tethereal.exe -nr c:\sotm\day3\log\day3.log
! perl sumsrcdst.pl > traffic.stats3

C:\Perl\scripts>
```

### Day 1: Protocol Statistics

206.252.192.195 -> 192.168.100.28	TCP	2162
192.168.100.28 -> 206.252.192.195	TCP	1928
61.219.90.180 -> 192.168.100.28	TCP	1879
192.168.100.28 -> 61.219.90.180	TCP	1853
62.211.66.53 -> 192.168.100.28	HTTP	1291
192.168.100.28 -> 61.134.3.11	ICMP	846
192.168.100.28 -> 217.116.38.10	ICMP	846
192.168.100.28 -> 62.211.66.53	TCP	819
192.18.99.122 -> 192.168.100.28	FTP-DATA	784
192.168.100.28 -> 192.18.99.122	TCP	707

148.244.153.91 -> 192.168.100.28 DNS	454
192.168.100.28 -> 148.244.153.91 DNS	405
192.168.100.28 -> 80.117.14.44 Gryphon	257
80.117.14.44 -> 192.168.100.28 TCP	255
62.211.66.16 -> 192.168.100.28 FTP-DATA	174
80.117.14.44 -> 192.168.100.28 Gryphon	163
192.168.100.28 -> 80.117.14.44 TCP	146
192.168.100.28 -> 62.211.66.16 TCP	140
192.168.100.28 -> 200.33.146.213 DNS	53
200.33.146.213 -> 192.168.100.28 DNS	52
192.12.94.30 -> 192.168.100.28 DNS	52
192.168.100.28 -> 192.12.94.30 DNS	52
192.168.100.28 -> 192.31.80.30 DNS	51
192.31.80.30 -> 192.168.100.28 DNS	51
192.168.100.28 -> 140.135.18.25 DNS	44
192.168.100.28 -> 200.33.146.217 DNS	38
200.33.146.217 -> 192.168.100.28 DNS	37
192.168.100.28 -> 192.5.6.30 DNS	36
192.5.6.30 -> 192.168.100.28 DNS	36
140.135.18.25 -> 192.168.100.28 DNS	34
200.33.213.66 -> 192.168.100.28 DNS	32
192.168.100.28 -> 200.33.213.66 DNS	32
62.211.66.16 -> 192.168.100.28 TCP	30
192.35.51.30 -> 192.168.100.28 DNS	29
192.168.100.28 -> 192.35.51.30 DNS	29
63.250.206.138 -> 192.168.100.28 DNS	26
192.168.100.28 -> 63.250.206.138 DNS	26
192.168.100.196 -> 192.168.100.28 DNS	25
192.168.100.28 -> 192.168.100.196 DNS	25
192.18.99.122 -> 192.168.100.28 FTP	24
192.41.162.30 -> 192.168.100.28 DNS	21
192.100.59.110 -> 192.168.100.28 DNS	21
192.168.100.28 -> 192.26.92.30 DNS	21
192.168.100.28 -> 192.41.162.30 DNS	21
192.26.92.30 -> 192.168.100.28 DNS	21
192.168.100.28 -> 192.33.14.30 DNS	21
192.168.100.28 -> 192.100.59.110 DNS	21
192.33.14.30 -> 192.168.100.28 DNS	21
192.42.93.30 -> 192.168.100.28 DNS	20
192.168.100.28 -> 192.42.93.30 DNS	20
192.54.112.30 -> 192.168.100.28 DNS	18
192.168.100.28 -> 192.54.112.30 DNS	18
206.98.114.20 -> 192.168.100.28 DNS	18
62.211.66.16 -> 192.168.100.28 FTP	18
192.168.100.28 -> 206.98.114.20 DNS	18
192.52.178.30 -> 192.168.100.28 DNS	17
192.168.100.28 -> 200.33.148.193 DNS	17
192.168.100.28 -> 205.152.0.5 DNS	17
192.168.100.28 -> 192.52.178.30 DNS	17
192.168.100.28 -> 210.180.98.69 DNS	17
210.180.98.69 -> 192.168.100.28 DNS	17
205.152.0.5 -> 192.168.100.28 DNS	17
192.168.100.28 -> 210.94.0.7 DNS	17
200.33.148.193 -> 192.168.100.28 DNS	17
210.94.0.7 -> 192.168.100.28 DNS	17
192.168.100.28 -> 198.133.199.110 DNS	16
192.168.100.28 -> 62.211.66.16 FTP	15

192.168.100.28 -> 200.23.1.1 DNS	15
148.244.153.82 -> 192.168.100.28 DNS	15
200.23.1.1 -> 192.168.100.28 DNS	15
192.168.100.28 -> 192.18.99.122 FTP	14
206.98.114.10 -> 192.168.100.28 DNS	14
192.18.99.122 -> 192.168.100.28 TCP	14
192.168.100.28 -> 206.98.114.10 DNS	14
192.168.100.28 -> 128.63.2.53 DNS	13
192.168.100.28 -> 206.252.192.195 IRC	13
204.176.88.5 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 66.28.255.130 ICMP	13
192.168.100.28 -> 64.15.251.198 ICMP	13
192.168.100.28 -> 148.244.153.82 DNS	13
128.63.2.53 -> 192.168.100.28 DNS	13
64.0.96.12 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 213.61.6.2 ICMP	13
192.168.100.28 -> 212.62.17.145 ICMP	13
192.168.100.72 -> 192.168.100.28 DNS	13
64.14.117.10 -> 192.168.100.28 ICMP	13
213.61.6.2 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 208.185.54.14 ICMP	13
63.218.7.130 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 64.14.117.10 ICMP	13
64.15.251.198 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 63.218.7.130 ICMP	13
192.168.100.28 -> 213.234.132.130 DNS	13
192.168.100.28 -> 192.168.100.72 DNS	13
208.185.54.14 -> 192.168.100.28 ICMP	13
66.28.255.130 -> 192.168.100.28 ICMP	13
192.168.100.28 -> 64.0.96.12 ICMP	13
213.234.132.130 -> 192.168.100.28 DNS	13
192.168.100.28 -> 204.176.88.5 ICMP	13
212.62.17.145 -> 192.168.100.28 ICMP	13
205.152.0.20 -> 192.168.100.28 DNS	12
192.168.100.28 -> 200.23.242.193 DNS	12
198.133.199.110 -> 192.168.100.28 DNS	12
192.168.100.28 -> 204.176.177.10 DNS	12
192.168.100.28 -> 205.152.0.20 DNS	12
200.23.242.193 -> 192.168.100.28 DNS	12
128.242.107.15 -> 192.168.100.28 DNS	12
204.176.177.10 -> 192.168.100.28 DNS	11
192.168.100.28 -> 204.70.57.242 DNS	11
204.70.57.242 -> 192.168.100.28 DNS	11
192.168.100.28 -> 192.58.128.30 DNS	11
132.248.253.1 -> 192.168.100.28 DNS	11
192.58.128.30 -> 192.168.100.28 DNS	11
192.168.100.28 -> 213.234.128.211 DNS	10
192.168.100.28 -> 193.0.0.193 DNS	10
193.0.0.193 -> 192.168.100.28 DNS	10
66.28.47.162 -> 192.168.100.28 ICMP	10
192.168.100.28 -> 66.28.47.162 ICMP	10
213.234.128.211 -> 192.168.100.28 DNS	10
192.168.100.28 -> 192.43.172.30 DNS	10
192.168.100.28 -> 168.95.1.14 DNS	10
168.95.1.14 -> 192.168.100.28 DNS	10
64.0.96.22 -> 192.168.100.28 DNS	10
192.168.100.28 -> 64.0.96.22 DNS	10

192.43.172.30 -> 192.168.100.28 DNS	10
200.33.146.201 -> 192.168.100.28 DNS	10
192.168.100.28 -> 200.33.146.201 DNS	10
192.168.100.28 -> 216.73.82.10 ICMP	9
63.210.142.26 -> 192.168.100.28 DNS	9
216.73.82.10 -> 192.168.100.28 ICMP	9
192.168.100.28 -> 61.144.145.243 TCP	9
192.48.79.30 -> 192.168.100.28 DNS	9
192.168.100.28 -> 64.14.76.206 DNS	9
192.168.100.28 -> 63.210.142.26 DNS	9
63.121.106.134 -> 192.168.100.28 DNS	9
192.168.100.28 -> 63.121.106.134 DNS	9
64.14.76.206 -> 192.168.100.28 DNS	9
61.144.145.243 -> 192.168.100.28 TCP	9
192.168.100.28 -> 192.48.79.30 DNS	9
206.79.230.10 -> 192.168.100.28 DNS	8
192.41.162.32 -> 192.168.100.28 DNS	8
192.168.100.28 -> 140.135.18.15 DNS	8
192.168.100.28 -> 192.168.100.198 DNS	8
192.168.100.28 -> 211.216.50.150 DNS	8
192.168.100.28 -> 64.15.251.221 DNS	8
192.168.100.28 -> 192.41.162.32 DNS	8
192.168.100.198 -> 192.168.100.28 DNS	8
192.168.100.28 -> 151.164.1.1 DNS	8
192.168.100.28 -> 206.79.230.10 DNS	8
151.164.1.1 -> 192.168.100.28 DNS	8
211.216.50.150 -> 192.168.100.28 DNS	8
64.15.251.221 -> 192.168.100.28 DNS	8
168.95.192.14 -> 192.168.100.28 DNS	8
192.168.100.28 -> 168.95.192.14 DNS	8
64.58.77.85 -> 192.168.100.28 DNS	8
192.168.100.28 -> 64.58.77.85 DNS	8
192.168.100.28 -> 211.216.50.130 DNS	7
192.168.100.28 -> 132.248.253.1 DNS	7
216.32.120.21 -> 192.168.100.28 DNS	7
192.168.100.28 -> 216.32.120.21 DNS	7
199.2.117.66 -> 192.168.100.28 DNS	7
140.135.18.15 -> 192.168.100.28 DNS	7
192.168.100.28 -> 209.132.1.28 DNS	7
192.168.100.28 -> 199.2.117.66 DNS	7
192.55.83.30 -> 192.168.100.28 DNS	7
209.132.1.28 -> 192.168.100.28 DNS	7
211.216.50.130 -> 192.168.100.28 DNS	7
192.168.100.28 -> 192.55.83.30 DNS	7
192.168.100.28 -> 65.54.248.222 DNS	7
65.54.248.222 -> 192.168.100.28 DNS	7
192.168.100.28 -> 210.81.13.179 DNS	6
206.252.192.195 -> 192.168.100.28 IRC	6
216.32.126.150 -> 192.168.100.28 DNS	6
192.168.100.28 -> 12.129.72.181 DNS	6
207.82.198.150 -> 192.168.100.28 DNS	6
192.168.100.28 -> 216.32.65.14 DNS	6
216.32.65.14 -> 192.168.100.28 DNS	6
206.252.192.5 -> 192.168.100.28 DNS	6
12.129.72.181 -> 192.168.100.28 DNS	6
192.168.100.28 -> 207.82.198.150 DNS	6
192.168.100.28 -> 206.252.192.5 DNS	6

192.168.100.28 -> 216.239.38.10 DNS	6
216.239.38.10 -> 192.168.100.28 DNS	6
192.168.100.28 -> 216.32.126.150 DNS	6
192.168.100.28 -> 207.248.240.42 DNS	5
192.168.100.28 -> 167.216.196.131 DNS	5
192.168.100.28 -> 192.115.106.11 DNS	5
192.168.100.28 -> 203.255.234.103 DNS	5
192.168.100.28 -> 63.123.77.194 ICMP	5
192.168.100.28 -> 66.28.255.153 DNS	5
192.115.106.11 -> 192.168.100.28 DNS	5
167.216.196.131 -> 192.168.100.28 DNS	5
192.168.100.28 -> 205.138.3.20 DNS	5
203.255.234.103 -> 192.168.100.28 DNS	5
63.123.77.194 -> 192.168.100.28 ICMP	5
192.168.100.28 -> 206.252.192.6 DNS	5
205.138.3.20 -> 192.168.100.28 DNS	5
66.28.255.153 -> 192.168.100.28 DNS	5
206.252.192.6 -> 192.168.100.28 DNS	5
207.248.240.42 -> 192.168.100.28 DNS	5
210.81.13.179 -> 192.168.100.28 DNS	5
192.168.100.28 -> 208.211.225.10 DNS	4
200.34.163.34 -> 192.168.100.28 DNS	4
192.168.100.28 -> 211.47.45.22 DNS	4
207.46.138.20 -> 192.168.100.28 DNS	4
192.168.100.28 -> 192.115.106.10 DNS	4
192.168.100.28 -> 151.164.1.7 DNS	4
63.218.7.158 -> 192.168.100.28 DNS	4
151.164.1.7 -> 192.168.100.28 DNS	4
192.168.100.28 -> 169.158.128.136 DNS	4
212.62.17.141 -> 192.168.100.28 DNS	4
192.168.100.28 -> 209.185.188.14 DNS	4
213.199.144.151 -> 192.168.100.28 DNS	4
200.23.242.201 -> 192.168.100.28 DNS	4
192.168.100.28 -> 212.62.17.141 DNS	4
211.47.45.22 -> 192.168.100.28 DNS	4
192.168.100.28 -> 64.14.117.6 DNS	4
64.24.196.50 -> 192.168.100.28 TCP	4
192.168.100.28 -> 208.254.75.130 ICMP	4
64.14.117.6 -> 192.168.100.28 DNS	4
151.99.125.2 -> 192.168.100.28 DNS	4
192.168.100.28 -> 208.185.54.23 DNS	4
192.168.100.28 -> 200.23.242.201 DNS	4
192.168.100.28 -> 207.46.138.20 DNS	4
192.168.100.28 -> 64.24.196.50 TCP	4
192.168.100.28 -> 209.1.235.120 DNS	4
192.168.100.28 -> 213.199.144.151 DNS	4
209.1.235.120 -> 192.168.100.28 DNS	4
209.185.188.14 -> 192.168.100.28 DNS	4
204.253.104.10 -> 192.168.100.28 DNS	4
208.211.225.10 -> 192.168.100.28 DNS	4
192.115.106.10 -> 192.168.100.28 DNS	4
192.168.100.28 -> 204.253.104.10 DNS	4
192.168.100.28 -> 63.218.7.158 DNS	4
192.168.100.28 -> 194.25.0.125 DNS	4
192.168.100.28 -> 151.99.125.2 DNS	4
208.185.54.23 -> 192.168.100.28 DNS	4
192.168.100.28 -> 200.34.163.34 DNS	4

192.168.100.28 -> 192.149.252.21 DNS	4
208.254.75.130 -> 192.168.100.28 ICMP	4
192.168.100.28 -> 169.158.128.156 DNS	4
203.248.240.31 -> 192.168.100.28 DNS	3
203.199.107.187 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 202.130.158.130 ICMP	3
137.39.1.3 -> 192.168.100.28 DNS	3
193.205.245.5 -> 192.168.100.28 DNS	3
64.124.186.66 -> 192.168.100.28 ICMP	3
200.33.148.201 -> 192.168.100.28 DNS	3
216.39.69.65 -> 192.168.100.28 ICMP	3
62.211.66.53 -> 192.168.100.28 TCP	3
192.168.100.163 -> 192.168.100.28 DNS	3
192.168.100.28 -> 67.195.152.135 TCP	3
192.168.100.28 -> 66.218.71.63 DNS	3
192.168.100.28 -> 192.83.166.11 DNS	3
192.168.100.28 -> 203.197.173.129 ICMP	3
204.248.36.130 -> 192.168.100.28 DNS	3
192.168.100.28 -> 63.215.198.79 DNS	3
193.0.0.237 -> 192.168.100.28 DNS	3
192.168.100.28 -> 216.21.234.73 DNS	3
192.168.100.28 -> 202.12.28.131 DNS	3
192.168.100.28 -> 203.248.240.31 DNS	3
64.160.228.206 -> 192.168.100.28 TCP	3
128.8.10.90 -> 192.168.100.28 DNS	3
192.168.100.28 -> 193.0.0.237 DNS	3
66.236.129.66 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 195.20.224.98 DNS	3
24.167.44.129 -> 192.168.100.28 TCP	3
192.168.100.28 -> 128.8.10.90 DNS	3
192.168.100.28 -> 129.70.132.100 DNS	3
192.36.125.2 -> 192.168.100.28 DNS	3
192.168.100.28 -> 202.54.111.72 ICMP	3
202.54.111.72 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 203.239.31.60 TCP	3
203.197.173.129 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 64.124.186.66 ICMP	3
192.168.100.28 -> 217.12.4.104 DNS	3
216.21.234.73 -> 192.168.100.28 DNS	3
202.12.28.131 -> 192.168.100.28 DNS	3
192.168.100.28 -> 64.160.228.206 TCP	3
64.231.37.135 -> 192.168.100.28 TCP	3
211.214.125.74 -> 192.168.100.28 TCP	3
207.46.245.230 -> 192.168.100.28 DNS	3
192.168.100.28 -> 65.203.232.2 ICMP	3
211.14.0.99 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 192.31.80.32 DNS	3
192.168.100.28 -> 203.199.107.187 ICMP	3
192.168.100.28 -> 209.10.34.55 DNS	3
192.168.100.28 -> 192.168.100.158 Syslog	3
192.168.100.28 -> 192.36.125.2 DNS	3
216.34.88.17 -> 192.168.100.28 ICMP	3
67.36.28.116 -> 192.168.100.28 TCP	3
192.168.100.28 -> 217.5.100.185 DNS	3
212.113.82.90 -> 192.168.100.28 DNS	3
192.168.100.28 -> 137.39.1.3 DNS	3
192.168.100.28 -> 66.236.129.66 ICMP	3

203.239.31.60 -> 192.168.100.28 TCP	3
216.74.133.194 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 24.167.44.129 TCP	3
192.149.252.21 -> 192.168.100.28 DNS	3
195.20.224.98 -> 192.168.100.28 DNS	3
202.130.158.130 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 203.89.210.82 ICMP	3
192.168.100.28 -> 193.205.245.5 DNS	3
64.14.42.16 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 216.34.88.17 ICMP	3
192.168.100.28 -> 67.36.28.116 TCP	3
192.168.100.28 -> 64.231.37.135 TCP	3
192.168.100.28 -> 192.168.100.163 DNS	3
217.12.4.104 -> 192.168.100.28 DNS	3
192.168.100.28 -> 211.214.125.74 TCP	3
192.31.80.32 -> 192.168.100.28 DNS	3
65.203.232.2 -> 192.168.100.28 ICMP	3
67.195.152.135 -> 192.168.100.28 TCP	3
192.168.100.28 -> 204.248.36.130 DNS	3
192.168.100.28 -> 216.21.226.73 DNS	3
192.168.100.28 -> 64.14.42.16 ICMP	3
192.168.100.28 -> 216.74.133.194 ICMP	3
192.168.100.28 -> 212.113.82.90 DNS	3
203.89.210.82 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 216.39.69.65 ICMP	3
192.168.100.28 -> 193.205.245.8 DNS	3
63.215.198.79 -> 192.168.100.28 DNS	3
192.168.100.28 -> 211.14.0.99 ICMP	3
192.168.100.28 -> 200.33.148.201 DNS	3
217.5.100.185 -> 192.168.100.28 DNS	3
192.168.100.28 -> 207.46.245.230 DNS	3
193.205.245.8 -> 192.168.100.28 ICMP	3
129.70.132.100 -> 192.168.100.28 DNS	3
66.218.71.63 -> 192.168.100.28 DNS	3
192.83.166.11 -> 192.168.100.28 DNS	2
192.168.100.28 -> 64.12.51.132 DNS	2
216.136.155.4 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.149.252.22 DNS	2
192.168.100.28 -> 209.164.7.66 ICMP	2
192.168.100.28 -> 216.73.83.10 ICMP	2
192.168.100.28 -> 216.35.213.248 DNS	2
192.168.100.28 -> 12.110.133.131 DNS	2
128.121.101.11 -> 192.168.100.28 DNS	2
192.168.100.28 -> 203.248.240.141 DNS	2
192.168.100.28 -> 64.37.246.2 ICMP	2
192.168.100.28 -> 213.61.6.5 DNS	2
63.241.199.50 -> 192.168.100.28 DNS	2
192.168.100.28 -> 148.244.240.195 DNS	2
192.94.163.152 -> 192.168.100.28 DNS	2
192.5.5.241 -> 192.168.100.28 DNS	2
192.168.100.28 -> 209.41.31.13 DNS	2
206.65.191.194 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 148.244.153.69 DNS	2
213.133.105.2 -> 192.168.100.28 DNS	2
192.168.100.28 -> 203.73.24.8 DNS	2
192.168.100.28 -> 63.215.198.78 DNS	2
207.44.0.1 -> 192.168.100.28 DNS	2

134.106.1.7 -> 192.168.100.28 DNS	2
192.109.42.4 -> 192.168.100.28 DNS	2
210.65.0.28 -> 192.168.100.28 DNS	2
192.168.100.28 -> 202.30.50.50 DNS	2
63.209.5.253 -> 192.168.100.28 DNS	2
192.168.100.28 -> 209.209.37.11 DNS	2
195.20.225.40 -> 192.168.100.28 DNS	2
192.168.100.28 -> 164.124.101.31 DNS	2
192.168.100.28 -> 210.65.0.28 DNS	2
192.168.100.28 -> 38.8.50.2 DNS	2
206.65.170.100 -> 192.168.100.28 DNS	2
192.168.100.28 -> 200.10.202.3 DNS	2
152.163.159.232 -> 192.168.100.28 DNS	2
192.168.100.28 -> 213.133.105.2 DNS	2
205.188.157.232 -> 192.168.100.28 DNS	2
64.28.86.226 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 207.68.128.151 DNS	2
192.168.100.28 -> 62.211.66.53 HTTP	2
63.215.198.78 -> 192.168.100.28 DNS	2
192.168.100.28 -> 206.65.183.71 DNS	2
192.149.252.22 -> 192.168.100.28 DNS	2
207.158.192.40 -> 192.168.100.28 DNS	2
192.168.100.28 -> 64.215.170.28 DNS	2
200.73.172.25 -> 192.168.100.28 DNS	2
209.164.7.66 -> 192.168.100.28 ICMP	2
206.65.183.71 -> 192.168.100.28 DNS	2
205.180.85.6 -> 192.168.100.28 DNS	2
192.168.100.28 -> 216.73.84.10 ICMP	2
194.85.119.1 -> 192.168.100.28 DNS	2
192.168.100.28 -> 207.158.192.40 DNS	2
159.226.6.178 -> 192.168.100.28 DNS	2
192.168.100.28 -> 216.136.217.67 DNS	2
192.168.100.28 -> 216.239.36.10 DNS	2
192.168.100.28 -> 200.73.172.25 DNS	2
62.53.3.68 -> 192.168.100.28 DNS	2
192.168.100.28 -> 205.180.85.6 DNS	2
209.10.34.55 -> 192.168.100.28 DNS	2
203.73.24.8 -> 192.168.100.28 DNS	2
192.168.100.28 -> 63.241.199.50 DNS	2
192.168.100.28 -> 205.188.157.232 DNS	2
128.9.0.107 -> 192.168.100.28 DNS	2
141.1.27.248 -> 192.168.100.28 DNS	2
216.239.32.10 -> 192.168.100.28 DNS	2
209.209.37.11 -> 192.168.100.28 DNS	2
192.168.100.28 -> 134.106.1.7 DNS	2
204.69.234.1 -> 192.168.100.28 DNS	2
192.168.100.28 -> 217.32.247.132 DNS	2
192.168.100.28 -> 194.246.96.49 DNS	2
192.168.100.28 -> 192.168.100.71 DNS	2
63.236.5.157 -> 192.168.100.28 DNS	2
204.74.101.1 -> 192.168.100.28 DNS	2
192.168.100.28 -> 168.95.192.2 DNS	2
192.168.100.28 -> 192.112.36.4 DNS	2
192.203.230.10 -> 192.168.100.28 DNS	2
192.168.100.28 -> 194.246.96.79 DNS	2
4.2.49.2 -> 192.168.100.28 DNS	2
192.168.100.28 -> 207.44.0.1 DNS	2

192.168.100.28 -> 148.244.249.75 DNS	2
192.168.100.28 -> 192.203.230.10 DNS	2
192.168.100.28 -> 128.121.101.11 DNS	2
192.168.100.28 -> 192.5.5.241 DNS	2
216.136.217.67 -> 192.168.100.28 DNS	2
200.33.246.1 -> 192.168.100.28 DNS	2
38.8.50.2 -> 192.168.100.28 DNS	2
192.168.100.28 -> 202.12.29.60 DNS	2
192.168.100.28 -> 211.216.50.160 DNS	2
192.168.100.28 -> 151.99.125.138 DNS	2
216.35.213.248 -> 192.168.100.28 DNS	2
194.246.96.79 -> 192.168.100.28 DNS	2
192.168.100.28 -> 64.95.61.36 DNS	2
192.168.100.28 -> 63.236.5.157 DNS	2
192.168.100.28 -> 192.36.148.17 DNS	2
66.135.207.138 -> 192.168.100.28 DNS	2
192.168.100.28 -> 216.136.155.4 DNS	2
192.168.100.28 -> 192.33.4.12 DNS	2
192.168.100.28 -> 216.136.217.66 DNS	2
192.168.100.28 -> 159.226.6.178 DNS	2
205.188.132.235 -> 192.168.100.28 DNS	2
164.124.101.31 -> 192.168.100.28 DNS	2
209.41.31.13 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.94.163.152 DNS	2
148.244.153.69 -> 192.168.100.28 DNS	2
192.168.100.28 -> 206.65.191.194 ICMP	2
192.168.100.28 -> 150.100.2.3 DNS	2
192.168.100.28 -> 4.2.49.2 DNS	2
192.168.100.28 -> 204.69.234.1 DNS	2
192.168.100.28 -> 165.193.217.2 ICMP	2
168.95.192.2 -> 192.168.100.28 DNS	2
192.168.100.28 -> 128.9.0.107 DNS	2
192.168.100.28 -> 141.1.27.248 DNS	2
192.168.100.28 -> 195.20.225.40 DNS	2
64.215.170.28 -> 192.168.100.28 DNS	2
203.248.240.141 -> 192.168.100.28 DNS	2
150.100.2.3 -> 192.168.100.28 DNS	2
192.168.100.28 -> 209.209.37.6 DNS	2
192.168.100.28 -> 128.242.107.15 DNS	2
66.135.207.137 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.109.42.4 DNS	2
192.168.100.28 -> 205.188.132.235 DNS	2
192.168.100.28 -> 151.99.250.2 DNS	2
213.61.6.5 -> 192.168.100.28 DNS	2
195.129.12.74 -> 192.168.100.28 DNS	2
202.12.29.60 -> 192.168.100.28 DNS	2
192.168.100.28 -> 62.53.3.68 DNS	2
192.168.100.28 -> 209.10.66.55 DNS	2
207.68.128.151 -> 192.168.100.28 DNS	2
64.95.61.36 -> 192.168.100.28 DNS	2
216.136.217.66 -> 192.168.100.28 DNS	2
192.168.100.28 -> 152.163.159.232 DNS	2
12.110.133.131 -> 192.168.100.28 DNS	2
192.168.100.28 -> 208.225.197.194 ICMP	2
192.168.100.28 -> 66.135.207.138 DNS	2
165.193.217.2 -> 192.168.100.28 ICMP	2
192.36.148.17 -> 192.168.100.28 DNS	2

12.47.217.11 -> 192.168.100.28 DNS	2
192.168.100.28 -> 66.135.207.137 DNS	2
192.168.100.28 -> 206.65.170.100 DNS	2
216.64.158.11 -> 192.168.100.28 DNS	2
148.244.153.69 -> 192.168.100.28 ICMP	2
217.32.247.132 -> 192.168.100.28 DNS	2
4.22.49.75 -> 192.168.100.28 DNS	2
192.168.100.28 -> 12.47.217.11 DNS	2
192.168.100.28 -> 130.206.1.2 DNS	2
192.168.100.28 -> 216.64.158.11 DNS	2
64.12.51.132 -> 192.168.100.28 DNS	2
151.99.125.138 -> 192.168.100.28 DNS	2
192.168.100.28 -> 200.33.246.1 DNS	2
192.168.100.28 -> 4.22.49.75 DNS	2
192.168.100.28 -> 195.129.12.74 DNS	2
192.168.100.28 -> 63.209.5.253 DNS	2
151.99.250.2 -> 192.168.100.28 DNS	2
192.33.4.12 -> 192.168.100.28 DNS	2
211.216.50.160 -> 192.168.100.28 DNS	2
148.244.249.75 -> 192.168.100.28 DNS	2
209.10.66.55 -> 192.168.100.28 DNS	2
216.239.36.10 -> 192.168.100.28 DNS	2
194.246.96.49 -> 192.168.100.28 DNS	2
148.244.240.195 -> 192.168.100.28 DNS	2
192.168.100.28 -> 204.74.101.1 DNS	2
192.168.100.28 -> 198.6.1.181 DNS	2
209.209.37.6 -> 192.168.100.28 DNS	2
216.73.84.10 -> 192.168.100.28 ICMP	2
130.206.1.2 -> 192.168.100.28 DNS	2
64.37.246.2 -> 192.168.100.28 ICMP	2
216.73.83.10 -> 192.168.100.28 ICMP	2
200.10.202.3 -> 192.168.100.28 DNS	2
198.6.1.181 -> 192.168.100.28 DNS	2
192.168.100.28 -> 194.85.119.1 DNS	2
208.225.197.194 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 64.28.86.226 ICMP	2
192.168.100.71 -> 192.168.100.28 DNS	2
192.168.100.28 -> 216.239.32.10 DNS	2
192.168.100.28 -> 195.145.119.189 DNS	1
193.205.245.66 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.61.5.28 DNS	1
216.32.65.105 -> 192.168.100.28 DNS	1
64.226.28.33 -> 192.168.100.28 DNS	1
192.168.100.28 -> 200.4.48.13 DNS	1
192.168.100.28 -> 204.253.104.11 DNS	1
207.227.117.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.205.245.66 DNS	1
192.168.100.28 -> 216.218.131.2 DNS	1
12.129.11.44 -> 192.168.100.28 DNS	1
192.168.100.28 -> 10.12.9.141 ICMP	1
63.209.29.138 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.172.60.17 DNS	1
192.168.100.28 -> 63.98.240.201 DNS	1
128.32.206.9 -> 192.168.100.28 DNS	1
209.126.152.242 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.109.58.202 DNS	1
65.206.228.71 -> 192.168.100.28 DNS	1

194.237.107.6 -> 192.168.100.28 DNS	1
192.168.100.28 -> 128.32.206.9 DNS	1
64.26.0.23 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.53.64.30 DNS	1
192.168.100.28 -> 203.136.232.67 DNS	1
200.52.132.83 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.133.104.2 DNS	1
192.168.100.28 -> 209.133.1.96 DNS	1
192.168.100.28 -> 65.163.234.133 DNS	1
192.168.100.28 -> 193.79.163.118 ICMP	1
192.168.100.28 -> 151.99.125.3 DNS	1
213.152.145.16 -> 192.168.100.28 DNS	1
192.168.100.28 -> 139.130.4.5 DNS	1
192.168.100.28 -> 64.39.29.212 DNS	1
192.168.100.28 -> 63.71.94.5 DNS	1
192.168.100.28 -> 207.235.16.2 DNS	1
192.168.100.28 -> 200.52.66.125 DNS	1
192.168.100.28 -> 192.134.0.49 DNS	1
192.168.100.28 -> 12.129.11.44 DNS	1
209.249.55.102 -> 192.168.100.28 DNS	1
192.168.100.28 -> 198.6.1.114 DNS	1
192.168.100.28 -> 194.109.218.36 DNS	1
209.68.217.194 -> 192.168.100.28 ICMP	1
151.99.125.3 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.113.128.58 DNS	1
208.172.80.140 -> 192.168.100.28 DNS	1
206.65.183.21 -> 192.168.100.28 DNS	1
16.1.0.18 -> 192.168.100.28 DNS	1
192.168.100.28 -> 202.144.78.2 ICMP	1
192.168.100.28 -> 207.248.240.41 DNS	1
192.168.100.28 -> 200.171.38.61 ICMP	1
63.211.121.147 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.108.91.3 DNS	1
192.109.42.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 61.221.179.26 TCP	1
192.168.100.28 -> 66.111.73.173 DNS	1
192.168.100.28 -> 168.95.192.10 DNS	1
192.168.100.28 -> 65.206.228.71 DNS	1
192.168.100.28 -> 209.225.41.200 DNS	1
192.168.100.28 -> 216.136.225.202 DNS	1
210.155.137.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.152.145.16 DNS	1
192.168.100.28 -> 207.182.224.10 DNS	1
202.12.29.59 -> 192.168.100.28 DNS	1
192.168.100.28 -> 210.8.213.35 DNS	1
212.77.231.12 -> 192.168.100.28 DNS	1
216.218.131.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 218.17.158.135 ICMP	1
192.168.100.28 -> 212.49.128.65 DNS	1
216.52.244.144 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.20.224.95 DNS	1
152.163.209.129 -> 192.168.100.28 DNS	1
209.133.1.96 -> 192.168.100.28 DNS	1
213.244.173.25 -> 192.168.100.28 DNS	1
211.13.227.66 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 216.32.65.105 DNS	1
192.168.100.28 -> 158.43.193.80 DNS	1

212.49.128.65 -> 192.168.100.28 DNS	1
207.248.240.41 -> 192.168.100.28 DNS	1
216.239.34.10 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.34.88.151 DNS	1
192.168.100.28 -> 204.59.144.222 DNS	1
210.117.65.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 64.152.2.36 DNS	1
63.71.94.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.74.112.1 DNS	1
192.168.100.28 -> 137.189.6.21 DNS	1
192.168.100.28 -> 165.76.0.98 DNS	1
192.168.100.28 -> 211.75.30.52 TCP	1
64.39.29.212 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.171.255.34 DNS	1
212.38.191.82 -> 192.168.100.28 DNS	1
209.216.124.211 -> 192.168.100.28 DNS	1
216.221.162.111 -> 192.168.100.28 DNS	1
216.156.2.3 -> 192.168.100.28 DNS	1
192.168.100.28 -> 217.5.100.186 DNS	1
62.4.74.66 -> 192.168.100.28 ICMP	1
193.0.14.129 -> 192.168.100.28 DNS	1
195.20.225.36 -> 192.168.100.28 DNS	1
192.168.100.28 -> 207.227.117.2 DNS	1
192.168.100.28 -> 209.68.217.194 ICMP	1
192.168.100.28 -> 212.121.130.5 DNS	1
192.168.100.28 -> 132.235.64.1 DNS	1
168.95.192.1 -> 192.168.100.28 DNS	1
193.171.255.34 -> 192.168.100.28 DNS	1
216.113.128.58 -> 192.168.100.28 DNS	1
192.9.9.3 -> 192.168.100.28 DNS	1
194.69.254.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 12.127.16.70 DNS	1
192.168.100.28 -> 63.150.183.46 DNS	1
192.168.100.28 -> 212.74.64.34 DNS	1
213.61.5.28 -> 192.168.100.28 DNS	1
192.168.100.28 -> 200.73.183.198 DNS	1
66.28.34.130 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 203.69.233.93 TCP	1
198.6.1.65 -> 192.168.100.28 DNS	1
192.168.100.28 -> 217.29.76.4 DNS	1
202.32.86.139 -> 192.168.100.28 DNS	1
4.2.49.3 -> 192.168.100.28 DNS	1
200.160.0.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 202.186.13.228 DNS	1
140.111.1.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 199.202.200.2 DNS	1
207.235.16.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 206.20.254.33 DNS	1
193.158.124.130 -> 192.168.100.28 DNS	1
213.86.246.21 -> 192.168.100.28 DNS	1
198.6.1.114 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.5.6.32 DNS	1
154.32.105.90 -> 192.168.100.28 DNS	1
63.209.170.136 -> 192.168.100.28 DNS	1
200.52.66.125 -> 192.168.100.28 DNS	1
194.25.2.130 -> 192.168.100.28 DNS	1
200.33.246.3 -> 192.168.100.28 DNS	1

192.168.100.28 -> 63.209.29.138 DNS	1
200.171.38.61 -> 192.168.100.28 NBNS	1
61.221.179.26 -> 192.168.100.28 TCP	1
200.33.146.193 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.158.124.130 DNS	1
209.225.41.200 -> 192.168.100.28 DNS	1
194.109.218.36 -> 192.168.100.28 DNS	1
193.108.91.93 -> 192.168.100.28 DNS	1
194.25.0.125 -> 192.168.100.28 DNS	1
218.17.158.135 -> 192.168.100.28 NBNS	1
192.168.100.28 -> 4.2.49.3 DNS	1
192.168.100.28 -> 192.9.9.3 DNS	1
212.172.60.17 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.248.36.131 DNS	1
207.228.252.101 -> 192.168.100.28 DNS	1
192.168.100.28 -> 81.19.67.2 DNS	1
192.168.100.28 -> 193.125.152.3 DNS	1
63.71.94.4 -> 192.168.100.28 DNS	1
63.219.179.130 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 194.25.2.133 DNS	1
192.168.100.28 -> 216.39.68.40 DNS	1
192.168.100.28 -> 160.45.10.13 DNS	1
200.4.48.13 -> 192.168.100.28 DNS	1
192.168.100.28 -> 146.20.43.251 DNS	1
192.168.100.28 -> 129.70.4.55 DNS	1
192.168.100.28 -> 140.111.1.2 DNS	1
192.168.100.28 -> 200.33.246.3 DNS	1
209.247.108.228 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.108.91.159 DNS	1
192.168.100.28 -> 209.249.55.102 DNS	1
192.168.100.28 -> 64.124.186.252 DNS	1
192.168.100.28 -> 63.208.48.42 DNS	1
148.245.244.157 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.209.170.136 DNS	1
193.159.170.187 -> 192.168.100.28 DNS	1
163.138.96.11 -> 192.168.100.28 DNS	1
192.168.100.28 -> 134.75.30.1 DNS	1
203.50.0.137 -> 192.168.100.28 DNS	1
194.67.57.4 -> 192.168.100.28 DNS	1
199.202.200.2 -> 192.168.100.28 DNS	1
207.171.171.132 -> 192.168.100.28 DNS	1
192.168.100.28 -> 209.126.152.242 DNS	1
216.52.1.33 -> 192.168.100.28 DNS	1
213.133.104.11 -> 192.168.100.28 DNS	1
12.127.16.70 -> 192.168.100.28 DNS	1
192.168.100.28 -> 198.6.1.182 DNS	1
192.168.100.28 -> 213.86.246.21 DNS	1
206.20.254.33 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.110.128.201 DNS	1
192.168.100.28 -> 64.226.28.33 DNS	1
192.168.100.28 -> 198.186.202.136 DNS	1
213.133.104.2 -> 192.168.100.28 DNS	1
216.148.227.68 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.71.94.4 DNS	1
192.168.100.28 -> 194.25.2.130 DNS	1
132.235.64.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 203.37.255.97 DNS	1

192.168.100.28 -> 202.160.241.130 ICMP	1
195.13.2.13 -> 192.168.100.28 DNS	1
192.168.100.28 -> 64.26.0.23 DNS	1
192.168.100.28 -> 62.13.128.20 DNS	1
212.53.64.30 -> 192.168.100.28 DNS	1
192.168.100.28 -> 163.138.96.11 DNS	1
149.174.211.8 -> 192.168.100.28 DNS	1
192.168.100.28 -> 152.163.209.129 DNS	1
192.168.100.28 -> 194.98.19.1 DNS	1
216.39.68.40 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.133.104.11 DNS	1
192.168.100.28 -> 208.172.80.140 DNS	1
65.163.234.133 -> 192.168.100.28 DNS	1
192.168.100.28 -> 128.242.107.5 DNS	1
64.58.79.83 -> 192.168.100.28 DNS	1
202.144.78.2 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 216.35.213.247 DNS	1
204.59.144.222 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.221.162.111 DNS	1
192.168.100.28 -> 207.228.252.101 DNS	1
192.134.0.49 -> 192.168.100.28 DNS	1
192.168.100.28 -> 64.58.79.83 DNS	1
207.44.96.129 -> 192.168.100.28 DNS	1
192.168.100.28 -> 168.144.68.8 DNS	1
195.66.240.130 -> 192.168.100.28 DNS	1
192.168.100.28 -> 207.171.171.132 DNS	1
192.168.100.28 -> 216.169.161.225 DNS	1
128.242.107.5 -> 192.168.100.28 DNS	1
209.41.31.14 -> 192.168.100.28 DNS	1
202.160.241.130 -> 192.168.100.28 ICMP	1
210.81.97.184 -> 192.168.100.28 DNS	1
203.136.232.67 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.219.179.130 ICMP	1
195.167.217.34 -> 192.168.100.28 DNS	1
192.168.100.28 -> 200.160.0.5 DNS	1
192.168.100.28 -> 202.12.27.33 DNS	1
192.168.100.28 -> 16.1.0.18 DNS	1
192.168.100.28 -> 63.211.121.147 DNS	1
63.215.198.86 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.76.144.16 DNS	1
192.76.144.16 -> 192.168.100.28 DNS	1
192.5.6.32 -> 192.168.100.28 DNS	1
192.168.100.28 -> 194.168.4.237 DNS	1
192.168.100.28 -> 212.38.191.82 DNS	1
169.158.128.136 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.159.170.187 DNS	1
192.168.100.28 -> 206.65.183.21 DNS	1
192.168.100.28 -> 62.4.74.66 ICMP	1
208.138.153.11 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.77.231.12 DNS	1
64.152.2.36 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.188.72.21 DNS	1
192.168.100.28 -> 192.35.51.32 DNS	1
192.168.100.28 -> 148.245.244.157 DNS	1
202.12.27.33 -> 192.168.100.28 DNS	1
192.168.100.28 -> 208.184.139.82 ICMP	1
192.168.100.28 -> 216.148.227.68 DNS	1

192.35.51.34 -> 192.168.100.28 DNS	1
195.5.64.2 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.239.34.10 DNS	1
64.124.186.252 -> 192.168.100.28 DNS	1
66.28.103.87 -> 192.168.100.28 TCP	1
192.168.100.28 -> 149.174.211.8 DNS	1
192.168.100.28 -> 195.167.217.34 DNS	1
203.37.255.97 -> 192.168.100.28 DNS	1
63.210.142.65 -> 192.168.100.28 DNS	1
130.59.211.10 -> 192.168.100.28 DNS	1
200.73.183.198 -> 192.168.100.28 DNS	1
192.168.100.28 -> 128.86.1.20 DNS	1
81.19.67.2 -> 192.168.100.28 DNS	1
139.130.4.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 130.59.211.10 DNS	1
160.45.10.13 -> 192.168.100.28 DNS	1
168.95.192.10 -> 192.168.100.28 DNS	1
210.8.213.35 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.66.240.130 DNS	1
192.168.100.197 -> 192.168.100.28 DNS	1
202.186.13.228 -> 192.168.100.28 DNS	1
192.168.100.28 -> 211.13.227.66 ICMP	1
192.168.100.28 -> 194.237.107.6 DNS	1
168.144.1.177 -> 192.168.100.28 DNS	1
192.168.100.28 -> 194.69.254.2 DNS	1
192.168.100.28 -> 202.32.86.139 DNS	1
192.168.100.28 -> 65.214.50.130 ICMP	1
193.108.91.159 -> 192.168.100.28 DNS	1
212.111.32.38 -> 192.168.100.28 DNS	1
206.65.183.70 -> 192.168.100.28 DNS	1
212.3.247.25 -> 192.168.100.28 DNS	1
192.168.100.28 -> 200.52.132.83 DNS	1
192.168.100.28 -> 209.247.108.228 DNS	1
192.168.100.28 -> 203.178.136.63 DNS	1
192.168.100.28 -> 212.3.247.25 DNS	1
192.168.100.28 -> 202.12.29.59 DNS	1
202.30.50.50 -> 192.168.100.28 DNS	1
192.168.100.28 -> 210.155.137.2 DNS	1
192.168.100.28 -> 64.73.138.71 DNS	1
192.168.100.28 -> 193.108.91.93 DNS	1
216.249.24.15 -> 192.168.100.28 DNS	1
192.112.36.4 -> 192.168.100.28 DNS	1
209.66.103.20 -> 192.168.100.28 DNS	1
204.253.104.11 -> 192.168.100.28 DNS	1
192.168.100.28 -> 194.67.57.4 DNS	1
192.168.100.28 -> 206.65.183.70 DNS	1
203.69.233.93 -> 192.168.100.28 TCP	1
194.168.4.237 -> 192.168.100.28 DNS	1
212.121.130.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 207.44.96.129 DNS	1
212.109.58.202 -> 192.168.100.28 DNS	1
218.14.182.224 -> 192.168.100.28 NBNS	1
198.186.202.136 -> 192.168.100.28 DNS	1
217.5.100.186 -> 192.168.100.28 DNS	1
193.214.57.194 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 66.28.103.87 TCP	1
193.108.91.3 -> 192.168.100.28 DNS	1

192.168.100.28 -> 205.138.3.243 DNS	1
192.168.100.28 -> 204.127.198.33 DNS	1
212.74.64.34 -> 192.168.100.28 DNS	1
193.232.212.12 -> 192.168.100.28 DNS	1
129.70.4.55 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.35.51.34 DNS	1
216.52.1.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.52.244.144 DNS	1
192.168.100.28 -> 66.35.250.12 DNS	1
192.168.100.28 -> 216.147.1.120 DNS	1
165.76.0.98 -> 192.168.100.28 DNS	1
192.168.100.28 -> 203.120.14.5 DNS	1
203.178.136.63 -> 192.168.100.28 DNS	1
192.168.100.28 -> 203.133.1.8 DNS	1
63.98.240.201 -> 192.168.100.28 DNS	1
216.34.88.151 -> 192.168.100.28 DNS	1
192.168.100.28 -> 154.32.105.90 DNS	1
212.80.175.2 -> 192.168.100.28 DNS	1
198.6.1.182 -> 192.168.100.28 DNS	1
216.220.40.243 -> 192.168.100.28 DNS	1
206.132.160.36 -> 192.168.100.28 DNS	1
63.150.183.46 -> 192.168.100.28 DNS	1
168.144.68.8 -> 192.168.100.28 DNS	1
204.248.36.131 -> 192.168.100.28 DNS	1
66.111.73.173 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.13.2.13 DNS	1
192.168.100.28 -> 212.111.32.38 DNS	1
192.168.100.28 -> 212.66.160.8 DNS	1
204.174.223.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 208.138.153.11 DNS	1
192.168.100.28 -> 209.41.31.14 DNS	1
192.168.100.28 -> 216.156.2.3 DNS	1
195.145.119.189 -> 192.168.100.28 DNS	1
216.35.213.247 -> 192.168.100.28 DNS	1
194.67.35.252 -> 192.168.100.28 DNS	1
62.13.128.20 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.199.1.132 DNS	1
192.168.100.28 -> 198.6.1.65 DNS	1
212.66.160.8 -> 192.168.100.28 DNS	1
65.214.50.130 -> 192.168.100.28 ICMP	1
64.73.138.71 -> 192.168.100.28 DNS	1
192.168.100.28 -> 209.216.124.211 DNS	1
192.168.100.28 -> 216.249.24.15 DNS	1
63.209.5.254 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.227.58.206 DNS	1
63.208.48.42 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.5.64.2 DNS	1
192.168.100.28 -> 216.220.40.243 DNS	1
192.168.100.28 -> 200.33.146.193 DNS	1
207.182.224.10 -> 192.168.100.28 DNS	1
192.168.100.28 -> 210.117.65.2 DNS	1
66.35.250.12 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.168.100.197 DNS	1
192.168.100.28 -> 63.210.142.65 DNS	1
212.227.58.206 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.209.5.254 DNS	1
137.189.6.21 -> 192.168.100.28 DNS	1

192.168.100.28 -> 193.232.212.12 DNS	1
216.136.225.199 -> 192.168.100.28 DNS	1
216.136.225.202 -> 192.168.100.28 DNS	1
203.120.14.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 218.14.182.224 ICMP	1
193.79.163.118 -> 192.168.100.28 NBNS	1
128.86.1.20 -> 192.168.100.28 DNS	1
158.43.193.80 -> 192.168.100.28 DNS	1
192.188.72.21 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.136.225.199 DNS	1
192.168.100.28 -> 63.215.198.86 DNS	1
194.25.2.133 -> 192.168.100.28 DNS	1
213.199.1.132 -> 192.168.100.28 DNS	1
10.12.9.141 -> 192.168.100.28 NBNS	1
192.168.100.28 -> 203.50.0.137 DNS	1
192.168.100.28 -> 216.52.1.1 DNS	1
192.168.100.28 -> 209.66.103.20 DNS	1
192.168.100.28 -> 216.52.1.33 DNS	1
211.75.30.52 -> 192.168.100.28 TCP	1
192.168.100.28 -> 168.95.192.1 DNS	1
193.110.128.201 -> 192.168.100.28 DNS	1
192.168.100.28 -> 168.144.1.177 DNS	1
192.168.100.28 -> 210.81.97.184 DNS	1
192.168.100.28 -> 66.28.34.130 ICMP	1
192.168.100.28 -> 213.244.173.25 DNS	1
203.133.1.8 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.174.223.1 DNS	1
194.98.19.1 -> 192.168.100.28 DNS	1
195.20.224.95 -> 192.168.100.28 DNS	1
217.29.76.4 -> 192.168.100.28 DNS	1
205.138.3.243 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.109.42.5 DNS	1
192.168.100.28 -> 194.67.35.252 DNS	1
192.35.51.32 -> 192.168.100.28 DNS	1
192.168.100.28 -> 206.132.160.36 DNS	1
146.20.43.251 -> 192.168.100.28 DNS	1
216.169.161.225 -> 192.168.100.28 DNS	1
193.125.152.3 -> 192.168.100.28 DNS	1
192.168.100.28 -> 212.80.175.2 DNS	1
192.168.100.28 -> 195.20.225.36 DNS	1
192.168.100.28 -> 193.214.57.194 ICMP	1
204.74.112.1 -> 192.168.100.28 DNS	1
208.184.139.82 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 193.0.14.129 DNS	1
204.127.198.33 -> 192.168.100.28 DNS	1
216.147.1.120 -> 192.168.100.28 DNS	1

Total: 18843

### Day 3: Protocol Statistics

192.168.100.28 -> 195.130.233.20 TCP	57978
192.168.100.28 -> 205.177.13.231 TCP	18680
195.130.233.20 -> 192.168.100.28 TCP	11706
192.168.100.28 -> 192.114.144.52 TCP	5196
206.252.192.195 -> 192.168.100.28 TCP	2690
192.168.100.28 -> 206.252.192.195 TCP	2425

192.168.100.28 -> 195.130.233.20 IP	2319
192.168.100.28 -> 195.130.233.20 UDP	2245
192.168.100.28 -> 195.130.233.20 ICMP	2219
62.211.66.55 -> 192.168.100.28 HTTP	1617
195.130.233.20 -> 192.168.100.28 ICMP	1397
62.101.108.86 -> 192.168.100.28 TCP	1042
192.168.100.28 -> 61.134.3.11 ICMP	1036
192.168.100.28 -> 62.211.66.55 TCP	1021
192.168.100.28 -> 62.101.108.86 TCP	913
2001:6b8:0:400::5d0e -> 2001:750:2:0:202:a5ff:fef0:aac7 IRC	912
2001:750:2:0:202:a5ff:fef0:aac7 -> 2001:6b8:0:400::5d0e TCP	896
12.122.12.62 -> 192.168.100.28 ICMP	881
2001:750:2:0:202:a5ff:fef0:aac7 -> 2001:6b8:0:400::5d0e IRC	853
192.168.100.28 -> 217.116.38.10 ICMP	760
61.134.3.11 -> 192.168.100.28 ICMP	757
80.117.14.222 -> 192.168.100.28 TCP	735
2001:6b8:0:400::5d0e -> 2001:750:2:0:202:a5ff:fef0:aac7 TCP	673
205.177.13.231 -> 192.168.100.28 TCP	519
192.168.100.28 -> 80.117.14.222 Gryphon	476
192.168.100.28 -> 80.117.14.222 TCP	471
192.114.144.52 -> 192.168.100.28 TCP	280
80.117.14.222 -> 192.168.100.28 Gryphon	203
12.123.17.57 -> 192.168.100.28 ICMP	156
12.122.2.226 -> 192.168.100.28 ICMP	111
148.244.153.91 -> 192.168.100.28 DNS	95
192.168.100.28 -> 148.244.153.91 DNS	85
192.168.100.28 -> 192.168.100.158 Syslog	63
192.168.100.28 -> 140.135.18.25 DNS	28
140.135.18.25 -> 192.168.100.28 DNS	24
12.122.2.225 -> 192.168.100.28 ICMP	24
192.58.128.30 -> 192.168.100.28 DNS	19
192.168.100.28 -> 192.5.6.30 DNS	18
192.168.100.28 -> 200.33.146.213 DNS	18
192.41.162.30 -> 192.168.100.28 DNS	18
200.33.146.213 -> 192.168.100.28 DNS	18
193.0.0.193 -> 192.168.100.28 DNS	18
192.5.6.30 -> 192.168.100.28 DNS	18
12.122.12.13 -> 192.168.100.28 ICMP	17
192.26.92.30 -> 192.168.100.28 DNS	17
192.168.100.28 -> 192.26.92.30 DNS	17
192.168.100.28 -> 192.41.162.30 DNS	17
192.168.100.28 -> 200.33.213.66 DNS	16
200.33.213.66 -> 192.168.100.28 DNS	16
192.168.100.28 -> 192.58.128.30 DNS	16
192.31.80.30 -> 192.168.100.28 DNS	15
200.33.148.193 -> 192.168.100.28 DNS	15
128.63.2.53 -> 192.168.100.28 DNS	15
192.168.100.28 -> 128.63.2.53 DNS	15
192.42.93.30 -> 192.168.100.28 DNS	14
192.168.100.28 -> 193.0.0.193 DNS	14
12.122.10.73 -> 192.168.100.28 ICMP	14
12.122.12.45 -> 192.168.100.28 ICMP	14
192.168.100.28 -> 192.42.93.30 DNS	14
192.168.100.28 -> 192.31.80.30 DNS	14
206.98.114.20 -> 192.168.100.28 DNS	13
192.168.100.28 -> 200.33.148.193 DNS	13
192.168.100.28 -> 206.98.114.20 DNS	13

192.168.100.28 -> 210.180.98.69 DNS	12
210.94.0.7 -> 192.168.100.28 DNS	12
192.168.100.28 -> 192.43.172.30 DNS	12
210.180.98.69 -> 192.168.100.28 DNS	12
192.168.100.28 -> 206.98.114.10 DNS	12
192.168.100.28 -> 210.94.0.7 DNS	12
192.43.172.30 -> 192.168.100.28 DNS	12
192.100.59.110 -> 192.168.100.28 DNS	11
211.216.50.150 -> 192.168.100.28 DNS	11
205.152.0.5 -> 192.168.100.28 DNS	11
192.168.100.28 -> 192.48.79.30 DNS	11
192.168.100.28 -> 192.168.100.72 DNS	11
206.98.114.10 -> 192.168.100.28 DNS	11
192.48.79.30 -> 192.168.100.28 DNS	11
192.168.100.28 -> 211.216.50.150 DNS	11
192.168.100.28 -> 192.100.59.110 DNS	11
192.168.100.28 -> 205.152.0.5 DNS	11
205.152.0.20 -> 192.168.100.28 DNS	10
12.122.10.77 -> 192.168.100.28 ICMP	10
192.168.100.28 -> 205.152.0.20 DNS	10
192.168.100.72 -> 192.168.100.28 DNS	10
192.168.100.28 -> 213.234.132.130 DNS	9
213.234.132.130 -> 192.168.100.28 DNS	9
192.168.100.28 -> 198.133.199.110 DNS	8
192.168.100.28 -> 64.0.96.12 ICMP	8
192.35.51.30 -> 192.168.100.28 DNS	8
64.0.96.12 -> 192.168.100.28 ICMP	8
192.168.100.28 -> 200.23.242.193 DNS	8
192.168.100.28 -> 192.35.51.30 DNS	8
198.133.199.110 -> 192.168.100.28 DNS	8
132.248.253.1 -> 192.168.100.28 DNS	8
202.12.28.131 -> 192.168.100.28 DNS	7
192.42.93.32 -> 192.168.100.28 DNS	7
213.234.128.211 -> 192.168.100.28 DNS	7
192.168.100.28 -> 213.234.128.211 DNS	7
192.168.100.28 -> 168.95.192.14 DNS	7
168.95.192.14 -> 192.168.100.28 DNS	7
200.33.146.217 -> 192.168.100.28 DNS	7
211.47.45.22 -> 192.168.100.28 DNS	7
192.168.100.28 -> 211.47.45.22 DNS	7
192.41.162.32 -> 192.168.100.28 DNS	7
192.168.100.28 -> 202.12.28.131 DNS	7
200.23.242.193 -> 192.168.100.28 DNS	7
192.168.100.28 -> 192.42.93.32 DNS	7
192.168.100.28 -> 200.33.146.217 DNS	7
192.168.100.28 -> 206.252.192.6 DNS	7
192.168.100.28 -> 192.41.162.32 DNS	7
206.252.192.6 -> 192.168.100.28 DNS	7
64.15.251.198 -> 192.168.100.28 ICMP	6
192.33.14.30 -> 192.168.100.28 DNS	6
192.168.100.28 -> 213.61.6.2 ICMP	6
192.168.100.28 -> 192.33.14.30 DNS	6
192.168.100.28 -> 64.14.117.10 ICMP	6
62.101.108.86 -> 192.168.100.28 ICMP	6
192.168.100.28 -> 64.15.251.198 ICMP	6
63.218.7.130 -> 192.168.100.28 ICMP	6
192.168.100.28 -> 168.95.1.14 DNS	6

192.168.100.28 -> 208.185.54.14 ICMP	6
192.168.100.28 -> 63.218.7.130 ICMP	6
204.176.88.5 -> 192.168.100.28 ICMP	6
192.54.112.30 -> 192.168.100.28 DNS	6
212.62.17.145 -> 192.168.100.28 ICMP	6
192.168.100.28 -> 204.176.88.5 ICMP	6
213.61.6.2 -> 192.168.100.28 ICMP	6
192.168.100.28 -> 212.62.17.145 ICMP	6
192.168.100.28 -> 192.54.112.30 DNS	6
208.185.54.14 -> 192.168.100.28 ICMP	6
168.95.1.14 -> 192.168.100.28 DNS	6
64.14.117.10 -> 192.168.100.28 ICMP	6
192.168.100.28 -> 132.248.253.1 DNS	6
192.168.100.28 -> 206.252.192.5 DNS	5
192.168.100.28 -> 192.52.178.30 DNS	5
192.168.100.28 -> 192.12.94.32 DNS	5
203.255.234.103 -> 192.168.100.28 DNS	5
192.168.100.28 -> 216.73.82.10 ICMP	5
192.12.94.32 -> 192.168.100.28 DNS	5
206.252.192.5 -> 192.168.100.28 DNS	5
192.52.178.30 -> 192.168.100.28 DNS	5
192.168.100.28 -> 163.162.170.173 ICMP	5
12.122.9.157 -> 192.168.100.28 ICMP	5
192.168.100.28 -> 66.28.255.130 ICMP	5
66.28.255.130 -> 192.168.100.28 ICMP	5
192.114.144.52 -> 192.168.100.28 ICMP	5
192.168.100.28 -> 203.255.234.103 DNS	5
216.73.82.10 -> 192.168.100.28 ICMP	5
192.168.100.28 -> 198.41.0.4 DNS	4
200.23.1.1 -> 192.168.100.28 DNS	4
198.41.0.4 -> 192.168.100.28 DNS	4
192.168.100.28 -> 166.130.113.157 TCP	4
151.99.125.138 -> 192.168.100.28 DNS	4
164.124.101.31 -> 192.168.100.28 DNS	4
192.168.100.28 -> 151.99.125.138 DNS	4
192.115.106.10 -> 192.168.100.28 DNS	4
192.168.100.28 -> 192.115.106.10 DNS	4
192.168.100.28 -> 192.115.106.11 DNS	4
192.115.106.11 -> 192.168.100.28 DNS	4
192.168.100.28 -> 200.23.1.1 DNS	4
192.168.100.28 -> 164.124.101.31 DNS	4
192.168.100.28 -> 140.135.18.15 DNS	4
192.168.100.28 -> 192.168.100.71 DNS	4
166.130.113.157 -> 192.168.100.28 TCP	4
140.111.1.2 -> 192.168.100.28 DNS	4
192.168.100.71 -> 192.168.100.28 DNS	4
64.14.76.206 -> 192.168.100.28 DNS	3
192.168.100.28 -> 131.154.1.3 DNS	3
192.168.100.28 -> 192.12.94.30 DNS	3
192.168.100.28 -> 195.130.233.20 RX	3
192.168.100.28 -> 204.70.57.242 DNS	3
192.168.100.28 -> 151.99.125.2 DNS	3
192.168.100.28 -> 151.164.1.1 DNS	3
200.23.242.201 -> 192.168.100.28 DNS	3
192.168.100.28 -> 128.9.0.107 DNS	3
192.12.94.30 -> 192.168.100.28 DNS	3
66.135.207.138 -> 192.168.100.28 DNS	3

192.168.100.28 -> 66.135.207.138 DNS	3
192.168.100.28 -> 200.23.242.201 DNS	3
128.8.10.90 -> 192.168.100.28 DNS	3
62.211.66.55 -> 192.168.100.28 TCP	3
131.154.1.3 -> 192.168.100.28 DNS	3
151.164.1.7 -> 192.168.100.28 DNS	3
12.122.9.158 -> 192.168.100.28 ICMP	3
192.168.100.28 -> 192.55.83.30 DNS	3
209.132.221.43 -> 192.168.100.28 DNS	3
128.9.0.107 -> 192.168.100.28 DNS	3
192.55.83.30 -> 192.168.100.28 DNS	3
151.99.125.2 -> 192.168.100.28 DNS	3
192.168.100.28 -> 209.132.221.43 DNS	3
192.168.100.28 -> 151.164.1.7 DNS	3
192.168.100.28 -> 128.8.10.90 DNS	3
148.244.249.75 -> 192.168.100.28 DNS	3
151.164.1.1 -> 192.168.100.28 DNS	3
192.168.100.28 -> 148.244.249.75 DNS	3
204.70.57.242 -> 192.168.100.28 DNS	3
192.168.100.28 -> 64.14.76.206 DNS	3
140.135.18.15 -> 192.168.100.28 DNS	3
192.168.100.28 -> 151.99.250.2 DNS	2
192.168.100.28 -> 211.216.50.160 DNS	2
192.149.252.22 -> 192.168.100.28 DNS	2
192.168.100.28 -> 198.32.64.12 DNS	2
192.168.100.28 -> 193.205.245.8 DNS	2
192.168.100.197 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.36.148.17 DNS	2
192.168.100.164 -> 192.168.100.28 DNS	2
192.168.100.28 -> 207.82.198.150 DNS	2
192.168.100.28 -> 216.32.120.21 DNS	2
209.10.66.55 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.149.252.22 DNS	2
192.168.100.28 -> 64.15.251.221 DNS	2
192.220.125.10 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.5.6.32 DNS	2
168.95.192.2 -> 192.168.100.28 DNS	2
fe80::c0a8:641c -> ff02::1:ffff8:e01c ICMPv6	2
192.168.100.28 -> 148.244.153.69 DNS	2
193.205.245.8 -> 192.168.100.28 DNS	2
192.168.100.28 -> 140.111.1.2 DNS	2
192.168.100.28 -> 192.220.125.10 DNS	2
64.28.86.226 -> 192.168.100.28 ICMP	2
151.92.2.34 -> 192.168.100.28 DNS	2
63.215.198.78 -> 192.168.100.28 DNS	2
198.32.64.12 -> 192.168.100.28 DNS	2
151.99.250.2 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.168.100.197 DNS	2
192.168.100.28 -> 66.28.47.162 ICMP	2
fe80::206:5bff:fe04:5e95 -> ff02::1:ff00:5d0f ICMPv6	2
194.25.2.130 -> 192.168.100.28 DNS	2
211.216.50.130 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.168.100.164 DNS	2
192.168.100.28 -> 194.25.2.130 DNS	2
209.10.34.55 -> 192.168.100.28 DNS	2
216.239.36.10 -> 192.168.100.28 DNS	2
192.168.100.28 -> 203.73.24.8 DNS	2

192.168.100.28 -> 64.14.117.6 DNS	2
192.168.100.28 -> 202.12.29.60 DNS	2
202.12.27.33 -> 192.168.100.28 DNS	2
192.168.100.28 -> 63.215.198.78 DNS	2
203.73.24.8 -> 192.168.100.28 DNS	2
200.33.148.201 -> 192.168.100.28 DNS	2
192.168.100.28 -> 62.101.108.86 ICMP	2
203.37.255.97 -> 192.168.100.28 DNS	2
193.0.14.129 -> 192.168.100.28 DNS	2
64.14.117.6 -> 192.168.100.28 DNS	2
203.133.1.8 -> 192.168.100.28 DNS	2
200.33.146.201 -> 192.168.100.28 DNS	2
192.168.100.28 -> 203.248.240.141 DNS	2
64.15.251.221 -> 192.168.100.28 DNS	2
192.168.100.28 -> 64.37.246.2 ICMP	2
202.12.29.60 -> 192.168.100.28 DNS	2
192.168.100.28 -> 217.42.126.229 TCP	2
203.248.240.141 -> 192.168.100.28 DNS	2
192.168.100.28 -> 203.37.255.97 DNS	2
192.168.100.28 -> 209.10.34.55 DNS	2
207.82.198.150 -> 192.168.100.28 DNS	2
192.168.100.28 -> 211.216.50.130 DNS	2
192.168.100.28 -> 193.0.14.129 DNS	2
192.168.100.28 -> 202.12.27.33 DNS	2
192.168.100.28 -> 192.33.4.12 DNS	2
66.28.47.162 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 216.239.36.10 DNS	2
192.36.125.2 -> 192.168.100.28 DNS	2
192.5.6.32 -> 192.168.100.28 DNS	2
192.168.100.28 -> 198.41.3.39 DNS	2
148.244.153.69 -> 192.168.100.28 DNS	2
129.70.132.100 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.36.125.2 DNS	2
192.168.100.28 -> 65.203.232.2 ICMP	2
66.28.34.130 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 200.33.148.201 DNS	2
192.33.4.12 -> 192.168.100.28 DNS	2
192.168.100.28 -> 209.10.66.55 DNS	2
192.5.5.241 -> 192.168.100.28 DNS	2
192.168.100.28 -> 151.92.2.34 DNS	2
192.168.100.28 -> 129.70.132.100 DNS	2
64.37.246.2 -> 192.168.100.28 ICMP	2
217.42.126.229 -> 192.168.100.28 TCP	2
fe80::c0a8:641c -> ff02::1:ff00:5d0e ICMPv6	2
192.168.100.28 -> 66.28.34.130 ICMP	2
192.168.100.28 -> 62.211.66.55 HTTP	2
211.216.50.160 -> 192.168.100.28 DNS	2
65.203.232.2 -> 192.168.100.28 ICMP	2
192.168.100.28 -> 203.133.1.8 DNS	2
216.32.120.21 -> 192.168.100.28 DNS	2
198.41.3.39 -> 192.168.100.28 DNS	2
192.168.100.28 -> 200.33.146.201 DNS	2
192.168.100.28 -> 64.28.86.226 ICMP	2
192.33.14.32 -> 192.168.100.28 DNS	2
192.168.100.28 -> 192.33.14.32 DNS	2
192.168.100.28 -> 168.95.192.2 DNS	2
192.168.100.28 -> 192.5.5.241 DNS	2

192.168.100.28 -> 203.50.0.137 DNS	1
143.248.1.177 -> 192.168.100.28 DNS	1
200.34.163.34 -> 192.168.100.28 DNS	1
192.168.100.28 -> 208.129.201.10 DNS	1
192.168.100.28 -> 216.130.214.82 DNS	1
192.168.100.28 -> 203.197.173.129 ICMP	1
192.168.100.28 -> 193.214.57.194 ICMP	1
192.168.100.28 -> 192.31.80.34 DNS	1
192.168.100.28 -> 64.226.28.33 DNS	1
216.239.32.10 -> 192.168.100.28 DNS	1
192.168.100.28 -> 65.206.228.70 DNS	1
192.168.100.28 -> 195.130.233.20 SRVLOC	1
192.168.100.28 -> 213.61.5.28 DNS	1
202.160.241.130 -> 192.168.100.28 ICMP	1
193.205.245.66 -> 192.168.100.28 DNS	1
64.226.28.33 -> 192.168.100.28 DNS	1
209.225.31.197 -> 192.168.100.28 DNS	1
192.168.100.28 -> 205.158.108.194 ICMP	1
192.168.100.28 -> 195.130.233.20 SlIMP3	1
192.168.100.28 -> 66.28.255.153 DNS	1
192.168.100.28 -> 209.185.188.14 DNS	1
198.5.148.6 -> 192.168.100.28 ICMP	1
205.158.108.194 -> 192.168.100.28 ICMP	1
209.185.188.14 -> 192.168.100.28 DNS	1
192.168.100.28 -> 199.191.128.105 DNS	1
192.168.100.28 -> 193.205.245.66 DNS	1
192.168.100.28 -> 64.154.81.20 DNS	1
216.21.234.73 -> 192.168.100.28 DNS	1
192.168.100.28 -> 202.160.241.130 ICMP	1
192.168.100.28 -> 192.76.144.16 DNS	1
207.46.245.230 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.151.111.83 ICMP	1
192.76.144.16 -> 192.168.100.28 DNS	1
65.206.228.71 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.70.128.1 DNS	1
194.25.2.132 -> 192.168.100.28 DNS	1
195.129.12.74 -> 192.168.100.28 DNS	1
192.168.100.28 -> 139.130.4.5 DNS	1
192.168.100.28 -> 211.14.0.99 ICMP	1
207.248.240.42 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.74.101.1 DNS	1
216.32.126.150 -> 192.168.100.28 DNS	1
00000000.0000 -> 00000000.0000 Vines	1
192.168.100.28 -> 152.163.209.129 DNS	1
209.73.164.76 -> 192.168.100.28 DNS	1
208.172.128.158 -> 192.168.100.28 DNS	1
192.168.100.28 -> 192.203.230.10 DNS	1
192.168.100.28 -> 198.6.1.83 DNS	1
192.168.100.28 -> 192.106.1.31 DNS	1
63.211.121.147 -> 192.168.100.28 DNS	1
192.168.100.28 -> 202.175.245.2 ICMP	1
192.168.100.28 -> 216.148.227.68 DNS	1
192.168.100.28 -> 61.221.179.26 TCP	1
64.12.51.132 -> 192.168.100.28 DNS	1
192.168.100.28 -> 65.206.228.71 DNS	1
192.168.100.28 -> 203.133.1.6 DNS	1
192.168.100.28 -> 192.168.100.198 DNS	1

192.168.100.28 -> 200.34.163.34 DNS	1
204.176.88.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 194.25.0.125 DNS	1
204.70.49.234 -> 192.168.100.28 DNS	1
192.168.100.28 -> 206.228.179.10 DNS	1
199.2.117.66 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.239.32.10 DNS	1
192.168.100.28 -> 213.157.130.12 TCP	1
192.168.100.28 -> 199.2.117.66 DNS	1
192.168.100.28 -> 200.160.0.5 DNS	1
192.168.100.28 -> 212.62.17.141 DNS	1
192.168.100.28 -> 64.12.51.132 DNS	1
207.46.72.123 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.210.142.26 DNS	1
63.218.7.158 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.211.121.147 DNS	1
192.168.100.28 -> 216.74.57.197 DNS	1
192.168.100.28 -> 209.104.33.252 DNS	1
152.163.209.129 -> 192.168.100.28 DNS	1
199.191.128.105 -> 192.168.100.28 DNS	1
192.168.100.28 -> 209.73.164.76 DNS	1
212.111.32.38 -> 192.168.100.28 DNS	1
198.6.1.83 -> 192.168.100.28 DNS	1
65.206.228.70 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.130.233.20 MGCP	1
62.4.74.66 -> 192.168.100.28 ICMP	1
64.35.7.130 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 216.32.126.150 DNS	1
147.28.0.39 -> 192.168.100.28 DNS	1
192.168.100.28 -> 206.25.8.69 DNS	1
213.61.5.28 -> 192.168.100.28 DNS	1
192.18.99.5 -> 192.168.100.28 DNS	1
209.104.33.252 -> 192.168.100.28 DNS	1
192.168.100.28 -> 217.29.76.4 DNS	1
134.75.30.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 193.108.91.42 DNS	1
fe80::206:5bff:fe04:5e95 -> ff02::1:ff04:5e95 ICMPv6	1
216.74.57.197 -> 192.168.100.28 DNS	1
192.168.100.28 -> 66.7.130.1 DNS	1
192.168.100.28 -> 217.5.100.186 DNS	1
192.168.100.28 -> 216.21.234.73 DNS	1
206.228.179.10 -> 192.168.100.28 DNS	1
203.133.1.6 -> 192.168.100.28 DNS	1
192.168.100.28 -> 217.116.224.1 DNS	1
192.168.100.28 -> 212.31.251.66 ICMP	1
203.50.5.200 -> 192.168.100.28 DNS	1
192.168.100.28 -> 143.248.1.177 DNS	1
218.90.41.105 -> 192.168.100.28 NBNS	1
193.214.57.194 -> 192.168.100.28 ICMP	1
212.31.251.66 -> 192.168.100.28 ICMP	1
168.95.192.1 -> 192.168.100.28 DNS	1
64.154.81.20 -> 192.168.100.28 DNS	1
192.168.100.28 -> 62.4.74.66 ICMP	1
192.168.100.28 -> 195.130.233.20 DDTP	1
192.168.100.28 -> 209.73.176.204 DNS	1
192.168.100.28 -> 202.30.50.50 DNS	1
206.25.8.69 -> 192.168.100.28 DNS	1

200.160.0.5 -> 192.168.100.28 DNS	1
192.168.100.28 -> 65.54.248.222 DNS	1
211.14.0.99 -> 192.168.100.28 ICMP	1
213.200.82.49 -> 192.168.100.28 ICMP	1
192.36.148.17 -> 192.168.100.28 DNS	1
129.70.4.55 -> 192.168.100.28 DNS	1
208.211.225.10 -> 192.168.100.28 DNS	1
202.175.245.2 -> 192.168.100.28 NBNS	1
192.168.100.28 -> 204.253.104.10 DNS	1
61.221.179.26 -> 192.168.100.28 TCP	1
12.122.12.58 -> 192.168.100.28 ICMP	1
206.79.230.10 -> 192.168.100.28 DNS	1
63.210.142.65 -> 192.168.100.28 DNS	1
192.168.100.28 -> 213.41.76.66 ICMP	1
204.71.116.25 -> 192.168.100.28 DNS	1
192.168.100.28 -> 129.70.4.55 DNS	1
192.168.100.28 -> 216.231.111.14 DNS	1
192.168.100.28 -> 208.211.225.10 DNS	1
192.168.100.28 -> 195.130.233.20 NBNS	1
194.25.0.125 -> 192.168.100.28 DNS	1
139.130.4.5 -> 192.168.100.28 DNS	1
209.21.0.72 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.130.233.20 RADIUS	1
192.168.100.28 -> 194.25.2.132 DNS	1
64.70.38.180 -> 192.168.100.28 DNS	1
216.130.214.82 -> 192.168.100.28 DNS	1
:: -> ff02::1:ff00:5d0f ICMPv6	1
207.68.128.151 -> 192.168.100.28 DNS	1
192.168.100.28 -> 202.12.29.25 DNS	1
216.151.111.83 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 203.50.5.200 DNS	1
192.168.100.28 -> 198.5.148.6 ICMP	1
192.168.100.28 -> 192.9.9.3 DNS	1
192.168.100.28 -> 208.254.75.130 ICMP	1
209.73.176.204 -> 192.168.100.28 DNS	1
65.54.248.222 -> 192.168.100.28 DNS	1
192.168.100.28 -> 64.35.7.130 ICMP	1
192.168.100.28 -> 204.70.49.234 DNS	1
192.168.100.28 -> 192.18.99.5 DNS	1
206.65.183.70 -> 192.168.100.28 DNS	1
216.231.111.14 -> 192.168.100.28 DNS	1
66.7.130.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 208.185.54.23 DNS	1
192.168.100.28 -> 207.248.240.42 DNS	1
192.168.100.28 -> 212.111.32.38 DNS	1
192.168.100.28 -> 64.154.80.20 DNS	1
192.168.100.28 -> 204.71.116.25 DNS	1
192.168.100.28 -> 147.28.0.39 DNS	1
213.199.1.132 -> 192.168.100.28 DNS	1
209.132.221.44 -> 192.168.100.28 DNS	1
192.168.100.28 -> 206.79.230.10 DNS	1
204.70.128.1 -> 192.168.100.28 DNS	1
192.168.100.28 -> 63.210.142.65 DNS	1
192.168.100.28 -> 206.65.183.70 DNS	1
192.168.100.28 -> 213.199.1.132 DNS	1
204.253.104.10 -> 192.168.100.28 DNS	1
151.92.2.35 -> 192.168.100.28 DNS	1

192.168.100.28 -> 207.68.128.151 DNS	1
192.168.100.28 -> 63.218.7.158 DNS	1
208.254.75.130 -> 192.168.100.28 ICMP	1
195.130.233.20 -> 192.168.100.28 UDP	1
192.168.100.28 -> 207.46.72.123 DNS	1
217.5.100.186 -> 192.168.100.28 DNS	1
192.168.100.28 -> 209.132.221.44 DNS	1
192.168.100.28 -> 218.90.41.105 ICMP	1
204.74.101.1 -> 192.168.100.28 DNS	1
64.0.96.22 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.130.233.20 AODV6	1
217.116.224.1 -> 192.168.100.28 DNS	1
212.62.17.141 -> 192.168.100.28 DNS	1
192.168.100.28 -> 207.46.245.230 DNS	1
213.157.130.12 -> 192.168.100.28 TCP	1
192.168.100.28 -> 168.95.192.1 DNS	1
208.129.201.10 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.129.12.74 DNS	1
fe80::206:5bff:fe04:5e95 -> ff02::2:d64f:8980 ICMPv6	1
192.168.100.28 -> 134.75.30.1 DNS	1
202.12.29.25 -> 192.168.100.28 DNS	1
66.28.255.153 -> 192.168.100.28 DNS	1
217.29.76.4 -> 192.168.100.28 DNS	1
64.154.80.20 -> 192.168.100.28 DNS	1
203.50.0.137 -> 192.168.100.28 DNS	1
216.148.227.68 -> 192.168.100.28 DNS	1
192.168.100.28 -> 204.176.88.1 DNS	1
192.168.100.28 -> 208.172.128.158 DNS	1
192.168.100.28 -> 209.225.31.197 DNS	1
216.73.84.10 -> 192.168.100.28 ICMP	1
192.31.80.34 -> 192.168.100.28 DNS	1
192.106.1.31 -> 192.168.100.28 DNS	1
192.168.100.28 -> 216.73.84.10 ICMP	1
192.168.100.28 -> 64.0.96.22 DNS	1
203.197.173.129 -> 192.168.100.28 ICMP	1
192.168.100.28 -> 151.92.2.35 DNS	1
208.185.54.23 -> 192.168.100.28 DNS	1
192.168.100.28 -> 64.70.38.180 DNS	1
192.168.100.198 -> 192.168.100.28 DNS	1
193.108.91.42 -> 192.168.100.28 DNS	1
213.41.76.66 -> 192.168.100.28 ICMP	1
192.203.230.10 -> 192.168.100.28 DNS	1
192.168.100.28 -> 195.130.233.20 DLSw	1
192.168.100.28 -> 209.21.0.72 DNS	1

Total: 123123

With this information I was now able to focus on just a few specific machines. I decided to go back to Ethereal and begin to look for packets that corresponded with the information obtained from Snort. I then noticed the numerous DNS queries and few NBTSTAT queries. These packets were responded to with ICMP "destination unreachable" replies. These packets were followed by some interesting packets sent to port 1433 (ms-sql-s). These reports were responded to with a RST, ACK indicating that the victim did not have the particular port open. As I continued to scan down within Ethereal I noticed the next batch of packets being sent to port 6112. A google search of this port

indicated that this port is used for 'dtspcd'. This information combined with the previously obtained about the possible victim's operating system proved to be quite interesting.

Now I moved back to the snort outputs to obtain the information about the "skillz" ICMP packets. This was quite easy since snort indicated that this was a DDOS Stacheldraht agent->handler.

I now attempted to determine the nationality of the attacker and used whois to provide me with the country of origin based upon the owner of the IP blocks.

## **Q1 Answer**

**What is the operating system of the honeypot? How did you determine that?**

It appears that the honeypot is a Sun Solaris 5.8 system. This is based upon the ethereal analysis of the Source and Destination MAC addresses. This information was validated with the Passive Fingerprinting Default TTL values of both TCP and UDP packets. The TTL value displayed by Ethereal is 255 which correspond to a Solaris system below 7. Ethereal provided the final piece of information between frames 569 and 574 where the operating system is reported to the attacker from the victim as SunOS 5.8.

## **Q2 Answer**

**How did the attacker(s) break into the system?**

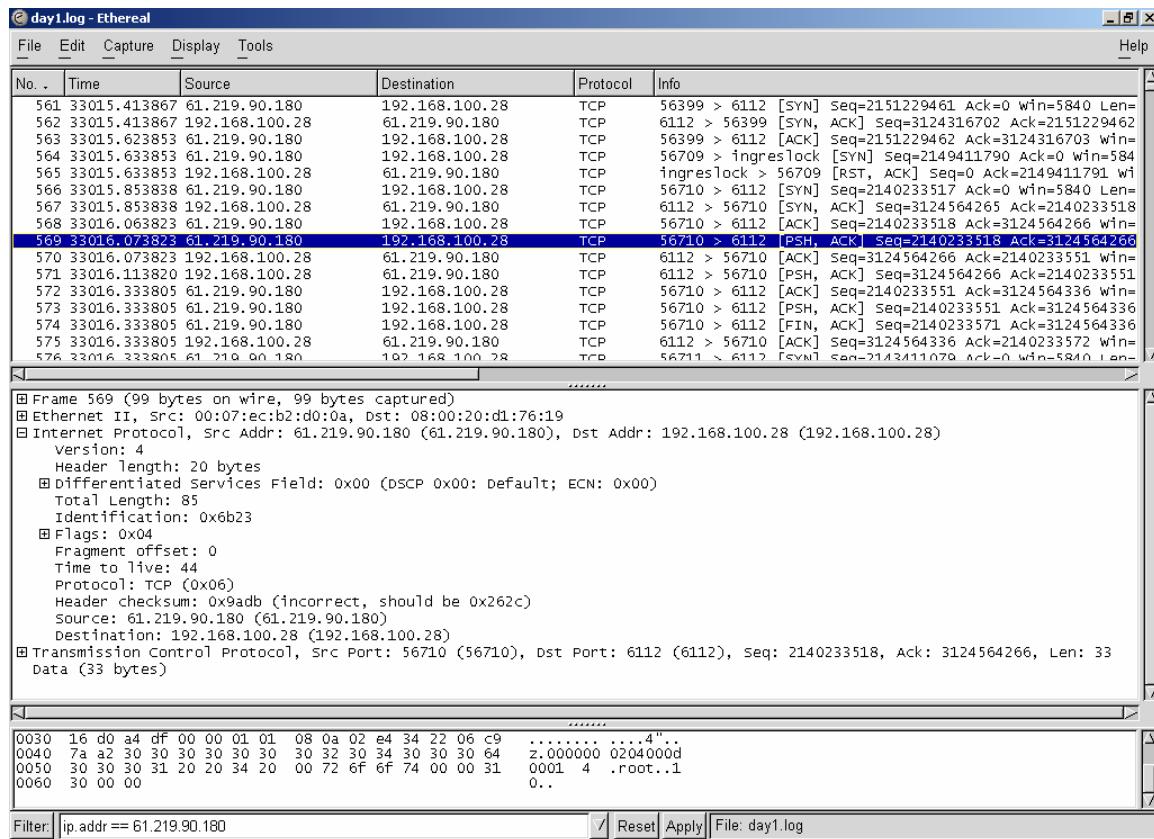
It appears that the attacker(s) gained access to the system using TCP a destination port 6112 which is used for 'dtspcd'. According to the CERT Vulnerability Note VU#172583 (<http://www.kb.cert.org/vuls/id/172583>) this could affect both SunOS 5.8, 5.8\_x86 systems. A remotely exploitable buffer overflow exists in the Common Desktop Environment (CDE) Subprocess Control Service (dtspcd). An attacker who successfully exploits this vulnerability can execute arbitrary code as root.

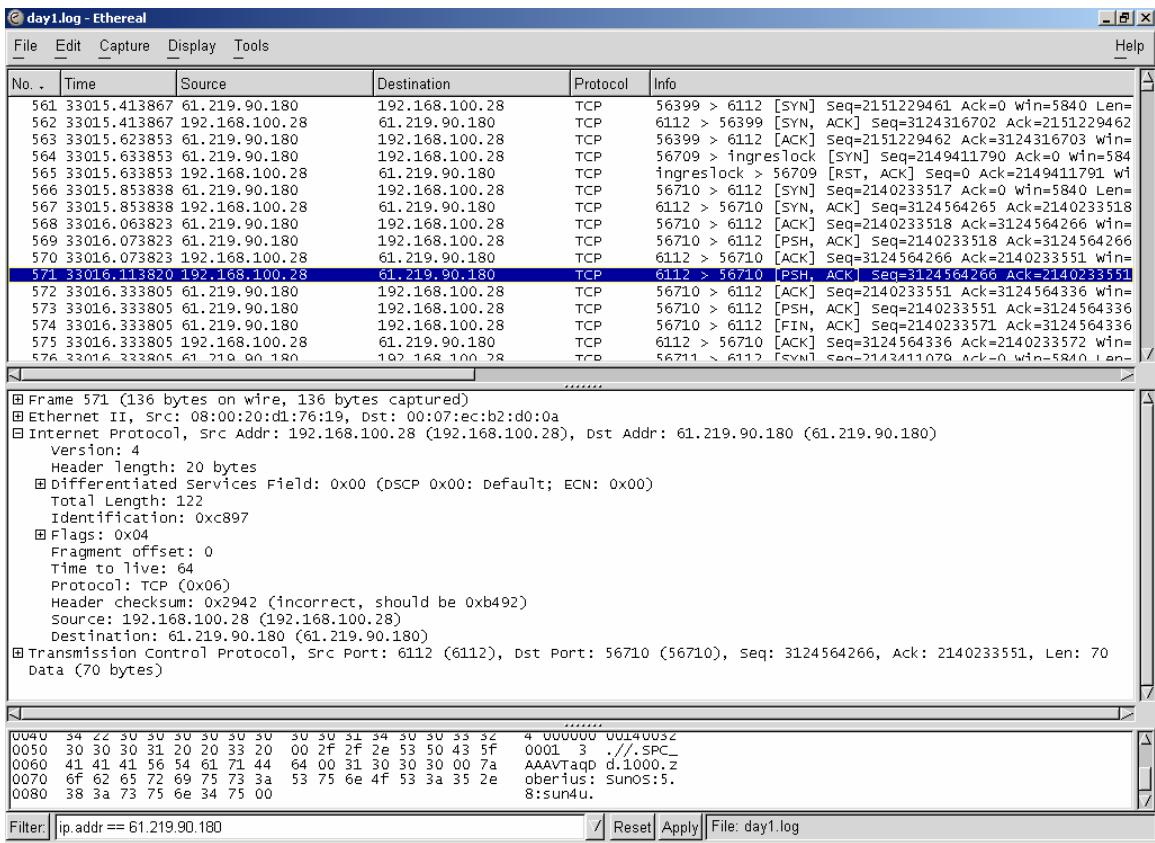
## **Q3 Answer**

**Which systems were used in this attack, and how?**

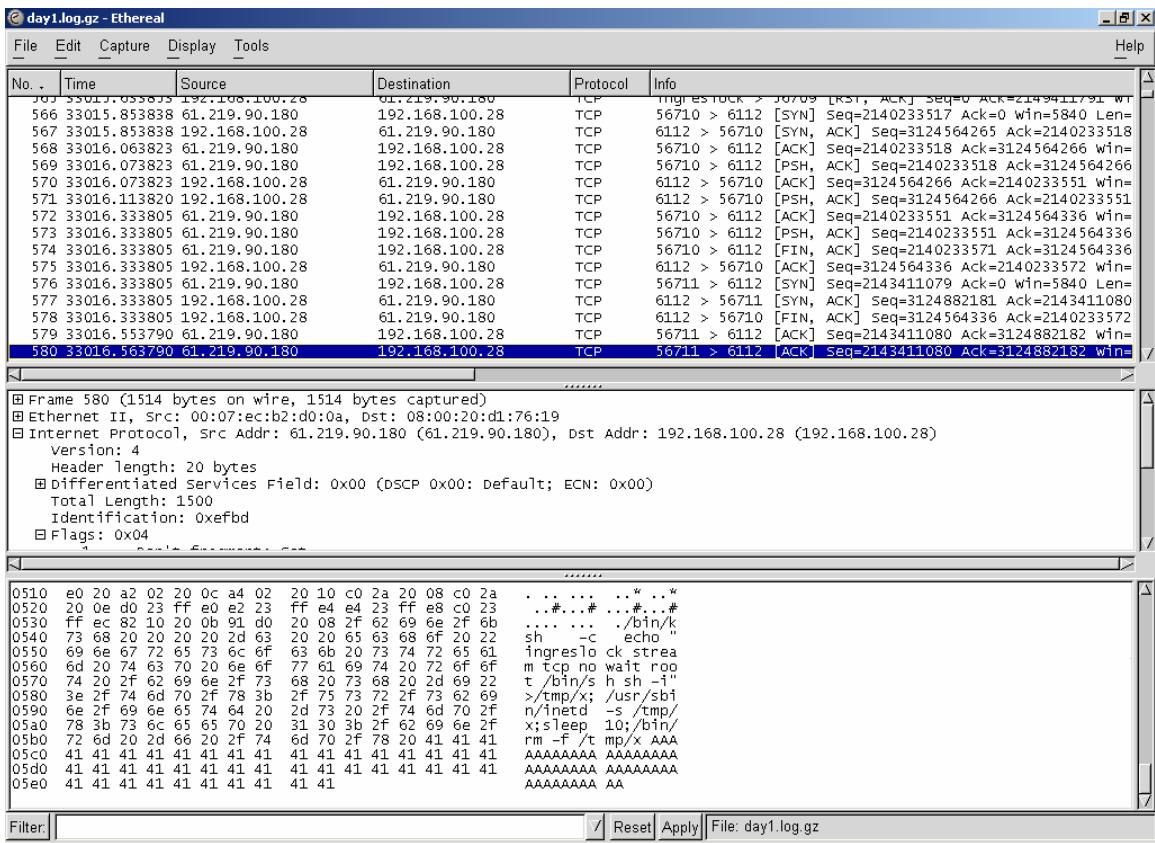
61.219.90.180 - began the attack with SYN packet sent to destination port 6112. Once it received an SYN/ACK, it completed the three way handshake with an ACK. This system then attempted to access the victim via port 1524 (Ingreslock) which is probably an attempt to exploit a

root shell exploit using Ingreslock. The system then went back to work on the original dtspcd exploit. As you can see with Frame 569 the attacker now has control of our victim. You can also see the operating system is SunOS 5.8



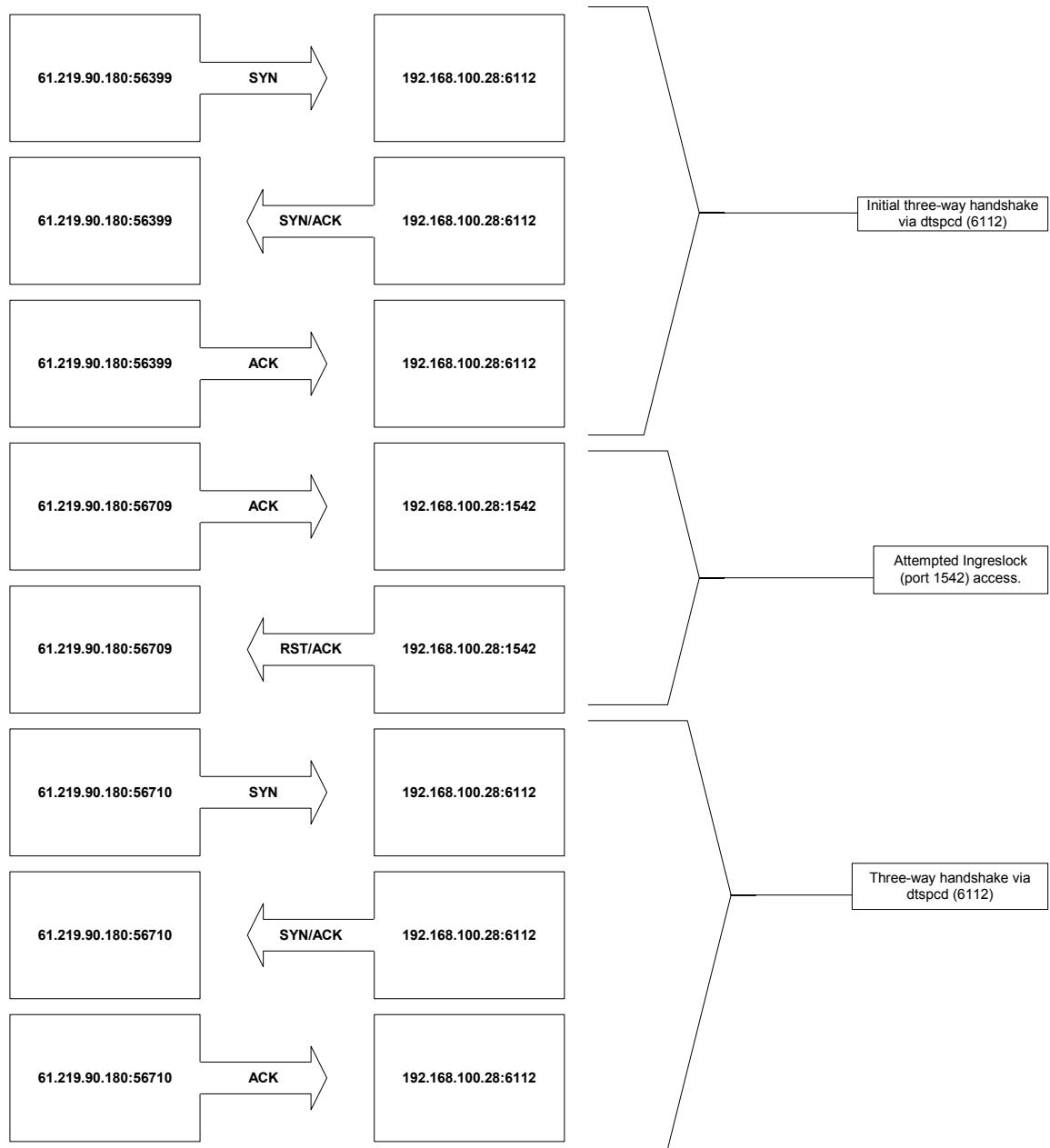


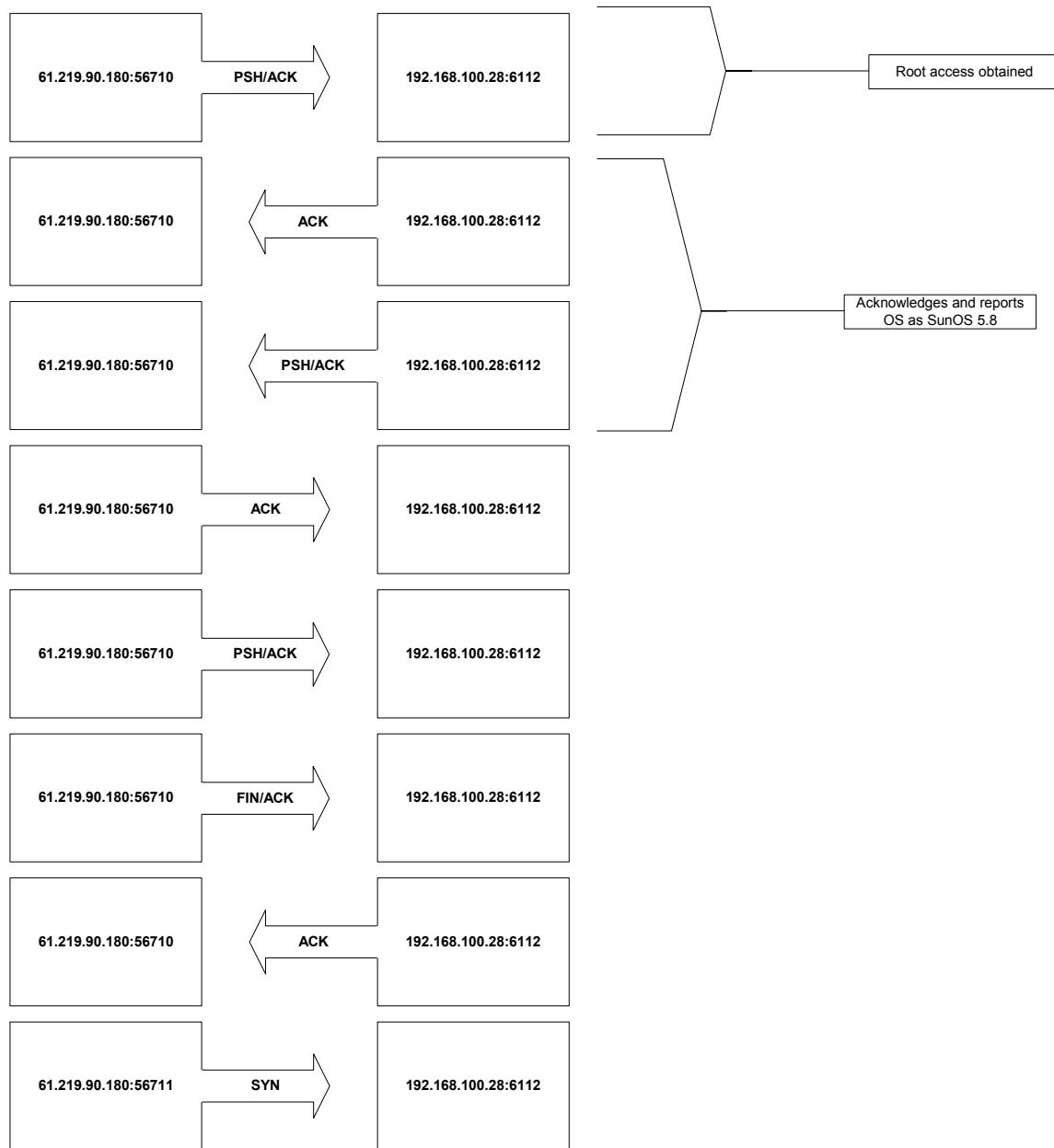
The attacker then added the Ingreslock entry to inetd with the newly acquired shell access.

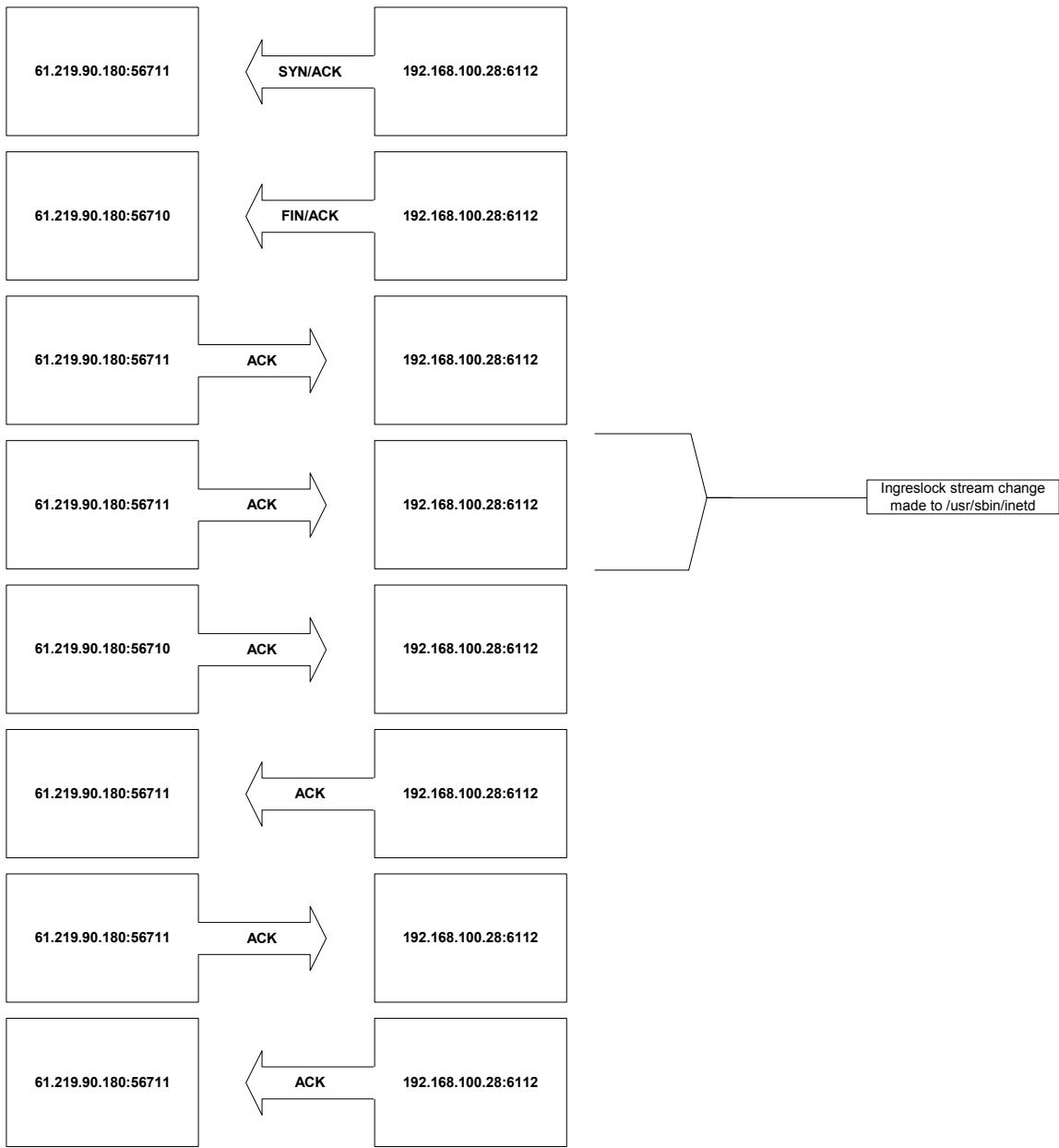


## Q4 Answer

Create a diagram that demonstrates the sequences involved in the attack.



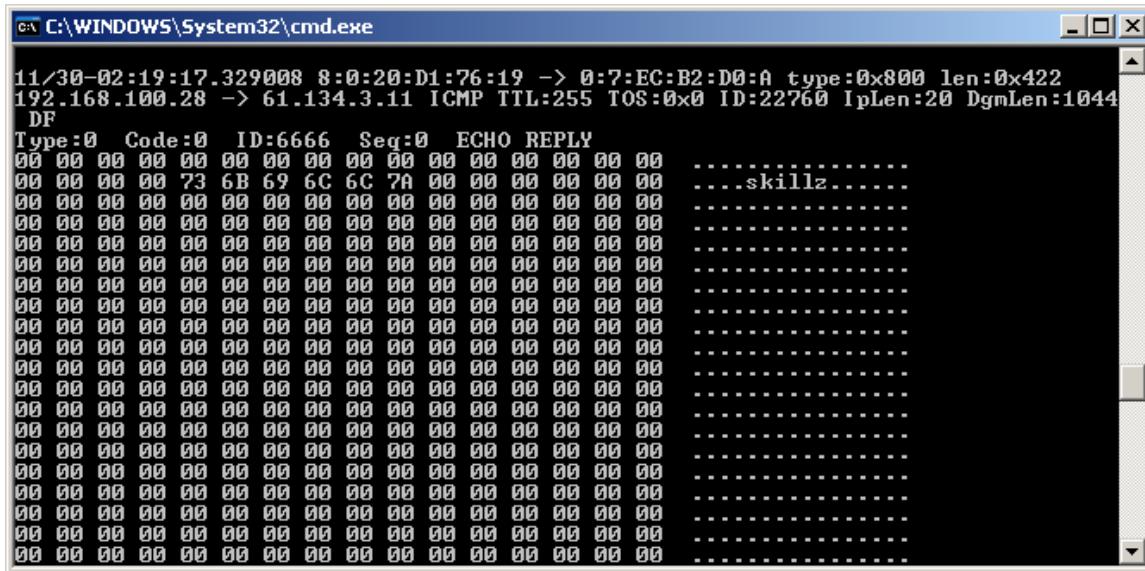




## Q5 Answer

What is the purpose/reason of the ICMP packets with 'skillz' in them?

The ICMP packets with 'skillz' in them are an indication of a DDOS Stacheldraht agent->handler (skillz). Stacheldraht were originally found in binary form on a number of Solaris 2.x systems, which were identified as having been compromised by exploitation of buffer overrun bugs in the RPC services "statd", "cmsd" and "ttdbserverd".



```
11/30-02:19:17.329008 8:0:20:D1:76:19 -> 0:7:EC:B2:D0:A type:0x800 len:0x422
192.168.100.28 -> 61.134.3.11 ICMP TTL:255 TOS:0x0 ID:22760 IpLen:20 DgmLen:1044
DF
Type:0 Code:0 ID:6666 Seq:0 ECHO REPLY
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 73 6B 69 6C 6C 7A 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

## Q6 Answer

Following the attack, the attacker(s) enabled a unique protocol that one would not expect to find on an IPv4 network. Can you identify that protocol and why it was used?

Gryphon Communication Protocol was found on day 3 at frame 1188. Dearborn Group's Gryphon product is a device that serves as a gateway between automotive / industrial automation networks and a TCP/IP network. Communication between Gryphon and a user's application takes place over a TCP/IP link. Applications may execute on remote networked nodes or on Gryphon itself. Communication between user applications (clients) and Gryphon (the server) is established via the Gryphon Communication Protocol (<http://www.dgtech.com/gryphon/docs/html/GCprotocol/>). This is obviously not normal for transmission on the internet. The reason appears to be to communicate with psyBNC 2.2.1 server. A bnc is short for a 'bouncer.' A bnc acts as a proxy for irc, allowing you to hide your real IP address and use a vhost. It was used to connect to other irc servers.

## Q7 Answer

Can you identify the nationality of the attacker?

Whois reveals that the 61.216.0.0 - 61.219.255.255 IP address block assignments could indicate that the initial attack came from Taiwan.

## Bonus Question Answer

What are the implications of using the unusual IP protocol to the Intrusion Detection industry?

The implications are that obviously the hackers are becoming more aware of unique protocols that exist and in fact choosing to use them as another means of hiding or obscuring their communications. It seems that since the industry is focused primarily on common protocols that perhaps unusual protocols will not be noticed. If you happen to have an IDS that uses canned rules and does not allow you to create your own that you are truly exposed and have no way of resolving the problem.

What tools exist that can decode this protocol?

Ethereal can decode DG Gryphon Protocol (gryphon)