

# Global Information Assurance Certification Paper

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\*\*\* Northcutt, there are some really nice reads in this practical don't miss detect 2! I hadn't seen that before so the bonus gets added. The research is good on attacks and source addresses. Good use of an analysis process. Bravo! 95 \*

*Note*: Detects are from either systems outside our corporate firewall or from systems connected to a cable modem (cable modem land is kinda scary!!!). In all cases a host-based firewall was used. Most addresses have been changed to protect the guilty/innocent. Packet dumps were read via Ethereal (<a href="http://ethereal.zing.org">http://ethereal.zing.org</a>), an open source network protocol analyzer. I think our next step will be to implement a SHADOW system at work!

Detect #1						
Time	Source	Destination	Protocol	Info		
11:16:43.6230	219.80.x.x	cablemodem.net	TCP 3516 > 21	[SYN] Seq=14937903	Ack=0 Win=8192	Len=0
11:16:59.8209	219.80.x.x	cablemodem.net	TCP 3517 > 21	[SYN] Seq=14937916	Ack=0 Win=8192	Len=0
11:16:59.8209	219.80.x.x	cablemodem.net	TCP 3518 > 21	[SYN] Seq=14937928	Ack=0 Win=8192	Len=0
11:16:59.8240	219.80.x.x	cablemodem.net	TCP 3519 > 21	[SYN] Seq=14937939	Ack=0 Win=8192	Len=0
11:16:59.8240	219.80.x.x	cablemodem.net	TCP 3516 > 21	[SYN] Seq=14937903	Ack=0 Win=8192	Len=0
11:16:59.8240	219.80.x.x	cablemodem.net	TCP 3520 > 21	[SYN] Seq=14937949	Ack=0 Win=8192	Len=0
11:16:59.8240	219.80.x.x	cablemodem.net	TCP 3517 > 21	[SYN] Seq=14937916	Ack=0 Win=8192	Len=0
11:16:59.8300	219.80.x.x	cablemodem.net	TCP 3521 > 21	[SYN] Seq=14937958	Ack=0 Win=8192	Len=0
11:16:59.8300	219.80.x.x	cablemodem.net	TCP 3518 > 21	[SYN] Seq=14937928	Ack=0 Win=8192	Len=0
11:16:59.8300	219.80.x.x	cablemodem.net	TCP 3522 > 21	[SYN] Seq=14937966	Ack=0 Win=8192	Len=0
11:16:59.8300	219.80.x.x	cablemodem.net	TCP 3519 > 21	[SYN] Seq=14937939	Ack=0 Win=8192	Len=0
11:16:59.8339	219.80.x.x	cablemodem.net	TCP 3523 > 21	[SYN] Seq=14937973	Ack=0 Win=8192	Len=0
11:16:59.8339	219.80.x.x	cablemodem.net	TCP 3520 > 21	[SYN] Seq=14937949	Ack=0 Win=8192	Len=0
11:16:59.8339	219.80.x.x	cablemodem.net	TCP 3524 > 21	[SYN] Seq=14937980	Ack=0 Win=8192	Len=0
11:16:59.8339	219.80.x.x	cablemodem.net	TCP 3521 > 21	[SYN] Seq=14937958	Ack=0 Win=8192	Len=0
11:16:59.8389	219.80.x.x	cablemodem.net	TCP 3525 > 21	[SYN] Seq=14937986	Ack=0 Win=8192	Len=0
11:16:59.8389	219.80.x.x	cablemodem.net	TCP 3522 > 21	[SYN] Seq=14937966	Ack=0 Win=8192	Len=0
11:16:59.8389	219.80.x.x	cablemodem.net	TCP 3526 > 21	[SYN] Seq=14937991	Ack=0 Win=8192	Len=0
11:16:59.8389	219.80.x.x	cablemodem.net	TCP 3523 > 21	[SYN] Seq=14937973	Ack=0 Win=8192	Len=0
11:16:59.8439	219.80.x.x	cablemodem.net	TCP 3527 > 21	[SYN] Seq=14937995	Ack=0 Win=8192	Len=0
11:16:59.8439	219.80.x.x	cablemodem.net	TCP 3516 > 21	[SYN] Seq=14937903	Ack=0 Win=8192	Len=0
11:16:59.8439	219.80.x.x	cablemodem.net	TCP 3524 > 21	[SYN] Seq=14937980	Ack=0 Win=8192	Len=0
11:16:59.8439		cablemodem.net	TCP 3528 > 21	[SYN] Seq=14937998	Ack=0 Win=8192	Len=0
11:16:59.8489	219.80.x.x	cablemodem.net	TCP 3517 > 21	[SYN] Seq=14937916	Ack=0 Win=8192	Len=0
11:16:59.8489	219.80.x.x	cablemodem.net	TCP 3525 > 21	[SYN] Seq=14937986	Ack=0 Win=8192	Len=0
History	Take	en from a computer attac	thed to a cable mode	m. I had not seen any previo	ous activity from the sou	arce address. The
•	attac	ck lasted for several minu	ites.		-	
Active Targeting						

Criticality	2	Home computer without any critical data.			
Lethality	4	DoS attack.			
System Countermeasures	4	OS is up to date.			
Network Countermeasures	4	Host-based firewall is installed.			
Severity	-2	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)			
Notes	Appears to be a DoS attack against port 21 (FTP) based upon the intervals and duration. The above attack lasted for				
	several minutes. Source address belongs to an ISP.				

ime	Source	Destination	Protocol	Info					
3:03:19.9379	206.251.4.210	cablemodem.net	UDP	Source port: 1070	Destination port: 371				
9:53:45.7975	206.251.4.210	cablemodem.net	UDP	Source port: 1045	Destination port: 371				
9:53:51.5325	206.251.4.210	cablemodem.net	UDP	Source port: 1031	Destination port: 371				
9:54:01.8435	206.251.4.210	cablemodem.net	UDP	Source port: 1077	Destination port: 371				
9:54:14.5085	206.251.4.210	cablemodem.net	UDP	Source port: 1075	Destination port: 371				
9:54:23.7125	206.251.4.210	cablemodem.net	UDP	Source port: 1072	Destination port: 371				
1:26:09.8009	206.251.4.210	cablemodem.net	UDP	Source port: 1055	Destination port: 373				
1:26:13.1410	206.251.4.210	cablemodem.net	UDP	Source port: 1050	Destination port: 371				
1:26:19.0080	206.251.4.210	cablemodem.net	UDP	Source port: 1033	Destination port: 371				
1:26:29.6579	206.251.4.210	cablemodem.net	UDP	Source port: 1074	Destination port: 371				
1:26:39.9379	206.251.4.210	cablemodem.net	UDP	Source port: 1031	Destination port: 371				
1:26:51.1130	206.251.4.210	cablemodem.net	UDP	Source port: 1053	Destination port: 371				
3:52:48.6009	206.251.4.210	cablemodem.net	UDP	Source port: 1071	Destination port: 371				
3:52:51.4320	206.251.4.210	cablemodem.net	UDP	Source port: 1067	Destination port: 371				
3:52:57.4079	206.251.4.210	cablemodem.net	UDP	Source port: 1067	Destination port: 371				
3:53:07.0520	206.251.4.210	cablemodem.net	UDP	Source port: 1075	Destination port: 371				
3:53:18.1679	206.251.4.210	cablemodem.net	UDP	Source port: 1069	Destination port: 371				
3:53:29.7580	206.251.4.210	cablemodem.net	UDP	Source port: 1077	Destination port: 371				
6:18:04.8079	206.251.4.210	cablemodem.net	UDP	Source port: 1060	Destination port: 371				
6:18:08.1380	206.251.4.210	cablemodem.net	UDP	Source port: 1059	Destination port: 371				
6:18:12.2910	206.251.4.210	cablemodem.net	UDP	Source port: 1078	Destination port: 371				
6:18:22.4620	206.251.4.210	cablemodem.net	UDP	Source port: 1031	Destination port: 371				
6:18:37.6380	206.251.4.210	cablemodem.net	UDP	Source port: 1060	Destination port: 371				
6:18:48.6879	206.251.4.210	cablemodem.net	UDP	Source port: 1067	Destination port: 371				
istory	Taken f	rom a friend's Compag Pre	sario attached to a	a cable modem. The abo	ove scans were very comm				
06:18:08.1380       206.251.4.210       cablemodem.net       UDP       Source port: 1059       Destination port: 371         06:18:12.2910       206.251.4.210       cablemodem.net       UDP       Source port: 1078       Destination port: 371         06:18:22.4620       206.251.4.210       cablemodem.net       UDP       Source port: 1031       Destination port: 371         06:18:37.6380       206.251.4.210       cablemodem.net       UDP       Source port: 1060       Destination port: 371									

Criticality	5	Home computer with personal/financial data on it.				
Lethality	3	Not sure how to rate this one, but since system updated may be installed by this, I gave it a 3.				
System Countermeasures	4	OS is up to date.				
<b>Network Countermeasures</b>	4	Host-based firewall installed.				
Severity	0	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)				
Notes	After	seeing the above activity I did an nslookup on 206.251.4.210, which returned Compaq as the owner. Being				
		as why Compaq would scan their customer's computers, I did a little research. UPD 371 is associated with				
	either	Clearcase, which is source control product from Rational Software				
	(http://	//www.rational.com/products/clearcase/index.jtmpl) or Backweb (http://www.backweb.com/), which is a push				
	based	software distribution solution. A quick search of Backweb's site verified the Compaq relationship				
	(http://	//www.backweb.com/html/compaq.html). On the client computer an application named <i>Compaq Service</i>				
	Conn	ection is automatically started upon boot up. The software allows Compaq to deliver software updates and				
	patch	es automatically. I'm not sure I like that idea! In any case we configured the firewall to trust this address so the				
	updat	es could be delivered.				

Detect #3					
Time 20:05:29.0659		Destination cablemodem.	Protocol net TCP	Inf 23 > 23 [	o ACK   Seq=475530002 Ack=2045767734 Win=1028 Len=0
20:10:04.6150 20:10:04.6150	208.x.x.x	cablemodem.	net TCP		FIN, SYN] Seq=777055218 Ack=596894454 Win=1028 Len=0
20:20:36.5310		35:f6:08 f		_	
History		Taken from a frie previous activity	-	attached to a c	able modem. I was not able to dig through the logs and look for
Active Targeting	g?	Yes.			
Criticality		5 Home con	nputer with pers	sonal/financial	data on it.
Lethality	Lethality 5 Probably an <i>sscan</i> probe.				
System Counter	System Countermeasures 4 OS is up to date.				
Network Countermeasures 4 Host-based firewall installed.					
Severity		2 Severity =	= (Criticality + 1	Lethality) – (Sy	ystem Countermeasures + Network Countermeasures)

Notes	The first thing I noticed about the above activity was the single ACK being sent to port 23 (telnet). Several minutes
	later port 23 was probed again with the FIN SIN flags set from source port 4. At the same time port 23 was probed
	from source port 5 with the PSH flag set. This pattern is <i>similar</i> to that of an sscan probe
	( <a href="http://www.cert.org/incident_notes/IN-99-01.html">http://www.cert.org/incident_notes/IN-99-01.html</a> ), but the above traffic doesn't completely match the CERT
	Incident Note. Typically an sscan script will not continue if the first probe to port 23 fails, and several other source
	ports are typically used along with ports 4 & 5 in the probe. Additionally other behavior associated with sscan was
	not detected. With this in mind I can't be certain that this is an sscan probe. The combination of flags set may be an
	attempt to identify the OS running. Good thing the firewall was installed!
	I traced this back to a shipping company in California. Their technical contact did not respond to my emails and
	voicemails concerning this activity.

Detect #4					
Time	Source	Destination	Protocol	l Info	
02:32:14.3108	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.3108	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.3108	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.3108	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.3208	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.3309	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.4610	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.4610	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.4610	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.4711	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.4811	my.lan.com		ICMP	Destination unreachable	
02:32:14.6213	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.6213	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.6213	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.6613	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.6613	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.6613	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.7615	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.7615	my.lan.com	4.2.74.139	ICMP	Destination unreachable	
02:32:14.8917 my.lan.com			ICMP	Destination unreachable	
History	1	None.			
Active Targeting	g? [	Jnknown.			
Criticality	3	My workstation.	_		
Lethality	2	Low.			

System Countermeasures	4	OS is up to date.						
Network Countermeasures	4	Host-based firewall.						
Severity	-3	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)						
Notes	I was	using trying out a web based telephony service called Dialpad ( <a href="http://www.dialpad.com/">http://www.dialpad.com/</a> ) when the above						
	activit	y was logged. Moments after this activity came in, the audio portion of Dialpad quit working. At first I thought						
	some	one was using spoofed addresses for a DoS attack. Upon further investigation the destination address was valid						
	(fa0.e	waldc-egw46.bbnplanet.net). I did a whois and got the contact information for the destination address and						
	called	. After getting transferred to several different people, the individual I finally spoke with indicated that they						
	have b	been getting similar reports from other sites. She also suggested I turn off my firewall in order to use the						
	Dialpa	ad service!						

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Detect #5								
Time	Source	Destination	Protocol	Info				
16:11:07.4370	cablemodem.net	my.cablemodem.net	TCP	1313 > 1 [SYN] Seq=8345199 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1314 > 2 [SYN] Seq=8345207 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net/	my.cablemodem.net	TCP	1315 > 3 [SYN] Seg=8345221 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1316 > 4 [SYN] Seq=8345225 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1317 > 5 [SYN] Seq=8345235 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1318 > 6 [SYN] Seq=8345236 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1319 > 7 [SYN] Seq=8345243 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1320 > 8 [SYN] Seq=8345256 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1321 > 9 [SYN] Seq=8345259 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1322 > 10 [SYN] Seq=8345268 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1323 > 11 [SYN] Seq=8473268 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1324 > 12 [SYN] Seq=8473274 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1325 > 13 [SYN] Seq=8473286 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1326 > 14 [SYN] Seq=8473288 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1327 > 15 [SYN] Seq=8473296 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1328 > 16 [SYN] Seq=8473311 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1329 > 17 [SYN] Seq=8473316 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1330 > 18 [SYN] Seq=8473327 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1331 > 19 [SYN] Seq=8473328 Ack=0 Win=8192 Len=0				
16:11:07.4400	cablemodem.net	my.cablemodem.net	TCP	1332 > 20 [SYN] Seq=8473336 Ack=0 Win=8192 Len=0				
History	-	vious history from this part	icular source	address.				
<b>Active Targeting</b>	? Yes.							
Criticality	2	My home computer withou	it any critical	data.				

Lethality	5	Very deliberate port scan.				
System Countermeasures	4	Os is up to date.				
<b>Network Countermeasures</b>	4	Host-based firewall.				
Severity	-1	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)				
Notes		This type of port mapping is pretty common on the cable modem network I subscribe to. Due to the fact that the				
	source	source address is from the same cable modem network I'm on along with the speed of the scan and the time of day, I				
	suspect this is a local kid running a script to map neighboring computers. They certainly are not worried about setting off an IDS (note the speed and consecutive nature of the scan)! I usually see this type of activity after 3PM and on					
	weeke	ends, hence my suspicion that kids are playing around.				

Detect #6											
Time	Source		Destination	Protocol							
18:09:51.1369	dialup.ne		my.lan.com	TCP			Seq=1682342				
18:09:51.1419	dialup.ne		my.lan.com	TCP			Seq=1682342				
18:09:51.1419	dialup.ne		my.lan.com	TCP		-	Seq=1682342				
18:09:51.1449	dialup.ne	et	my.lan.com	TCP	4250 > 5	S [SYN]	Seq=1682342	2 Ack=0	Win=8192	Len=0	
History  From a workstation in our DMZ. Several times a month we see this activity. The source is an IP ISP.				IP block assigned to	an						
Active Targeting	?	Not S	Not Sure.								
Criticality	7	3	Workstations.								
Lethality	ċ.V	2	These computers ar								
System Countern	neasures	4	All computers are up to date with patches.								
Network Counter	rmeasures	4	Host-based firewalls are installed.								
<b>Severity</b> $-3$ $Severity = (Criticality + Lethality) - (System Countermeasures + Network Countermeasures)$					Counterme	easures)					
<b>Notes</b> DNS probe. The source addresses are from a local dialup ISP. Due to the source and the randomness					omness of the probe,	I					
suspect this is a misconfigured computer. Unfortunately I can't rule out Back Orifice since some hackers w						me hackers will searc	:h				
		_	on TCP 53. Fortunate	_		-					

Detect #7										
Time	Source		Destination	Protocol	Info					
07:12:15.2369	dialup.I	SP.net	my.lan.com	TCP	4370 > <b>37</b> [SYN] Seq=1682682 Ack=0 Win=8192 Len=0					
07:12:15.2400	dialup.I	SP.net	my.lan.com	TCP	4371 > <b>13</b> [SYN] Seq=1682694 Ack=0 Win=8192 Len=0					
07:12:15.2400	dialup.I	SP.net	my.lan.com	TCP	4371 > <b>13</b> [SYN] Seq=1682694 Ack=0 Win=8192 Len=0					
07:13:27.1469	dialup.I	SP.net	my.lan.com	NTP	NTP					
07:13:27.1469	dialup.I	SP.net	my.lan.com	TCP	4371 > <b>13</b> [SYN] Seq=1682694 Ack=0 Win=8192 Len=0					
07:13:27.1499	dialup.I	SP.net	my.lan.com	TCP	4371 > <b>13</b> [SYN] Seq=1682694 Ack=0 Win=8192 Len=0					
07:13:27.1499	dialup.I	SP.net	my.lan.com	TCP	4373 > <b>37</b> [SYN] Seq=1682713 Ack=0 Win=8192 Len=0					
07:13:27.1499	dialup.I	SP.net	my.lan.com	TCP	4373 > <b>37</b> [SYN] Seq=1682713 Ack=0 Win=8192 Len=0					
07:13:27.1549	dialup.I	SP.net	my.lan.com	TCP	4373 > <b>37</b> [SYN] Seq=1682713 Ack=0 Win=8192 Len=0					
07:13:27.1549	dialup.I	SP.net	my.lan.com	TCP	4373 > <b>37</b> [SYN] Seq=1682713 Ack=0 Win=8192 Len=0					
07:13:39.6119	dialup.I	SP.net	my.lan.com	NTP	NTP					
History		Taken from a computer in the DMZ. We see this type of activity 2-3 times a month but from different source								
·		addre	sses.							
Active Targeting	?	Yes.								
Criticality		5	5 Web server.							
Lethality		3	Recon.							
System Countermeasures		4	OS is up to date with pate	ches.						
Network Counter		4	Host-based firewall.							
Severity 0			Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)							
Notes		This r	, ,		printing. Source IP address comes from an IP block belonging to a					
11000					/www.cis.ohio-state.edu/htbin/rfc/rfc867.html) and TCP 37 is the					
		time p	protocol ( <u>http://www.cis.oh</u>	<u> 110-state.edu/htbin</u>	<u>//rfc/rfc738.html</u> ). My suspicion is OS fingerprinting.					

Detect #8									
Detect #6									
	_								
Time Source		Destination	Protocol						
00:49:31.6608 hacker.com			my.lan.com hacker.com	ICMP ICMP	Echo (ping) request				
00:49:31.6608	my.lan.co				Echo (ping) reply				
00:49:31.6608	hacker.co	-	my.lan.com	TCP IP	256 > 257 [ACK] Seq=286331153 Ack=572662306 Win=4096 Len=12 Fragmented IP protocol (proto=TCP 0x06, off=4)				
00:49:31.6608	my.lan.co	-	my.lan.com hacker.com	TCP	257 > 256 [RST] Seq=572662306 Ack=572662306 Win=0 Len=0				
00:49:31.6608	hacker.c			IP	· · · · · · · · · · · · · · · · · · ·				
00:49:31.6608	hacker.co	-	my.lan.com	IP	Fragmented IP protocol (proto=TCP 0x06, off=32) Fragmented IP protocol (proto=TCP 0x06, off=64)				
00:49:31.6608	hacker.co	-	<pre>my.lan.com my.lan.com</pre>	TCP					
00:49:31.6608	hacker.co	-	<b>4</b>		256 > 257 [ACK] Seq=286331153 Ack=572662306 Win=4096 Lens				
00:49:31.6608			<pre>my.lan.com hacker.com</pre>	IP TCD	Fragmented IP protocol (proto=TCP 0x06, off=4) 257 > 256 [RST] Seg=572662306 Ack=572662306 Win=0 Len=0				
00:49:31.6608	my.lan.co		my.lan.com	TCP IP	Fragmented IP protocol (proto=TCP 0x06, off=32)				
00:49:31.6608	hacker.co		my.lan.com	IP	Fragmented IP protocol (proto-TCP 0x06, 011-32) Fragmented IP protocol (proto-TCP 0x06, off-64)				
00:49:31.6709	hacker.co		my.lan.com	TCP	256 > 257 [ACK] Seq=286331153 Ack=572662306 Win=4096 Len=12				
00:49:31.6709	hacker.co	-	my.lan.com	IP	Fragmented IP protocol (proto=TCP 0x06, off=4)				
00:49:31.6709			hacker.com	TCP	257 > 256 [RST] Seq=572662306 Ack=572662306 Win=0 Len=0				
00:49:31.6709	2				Fragmented IP protocol (proto=TCP 0x06, off=32)				
00:49:31.6709	hacker.c		my.lan.com	IP	Fragmented IP protocol (proto=TCP 0x06, off=64)				
00:49:31.6709	hacker.c	-	my.lan.com	TCP	256 > 257 [ACK] Seq=286331153 Ack=572662306 Win=4096 Len=12				
00:49:31.6709	hacker.co	-	my.lan.com	IP	Fragmented IP protocol (proto=TCP 0x06, off=4)				
00:49:31.6709	my.lan.co		hacker.com	TCP	257 > 256 [RST] Seq=572662306 Ack=572662306 Win=0 Len=0				
00.13.31.0703	my · ran · c		nacher.com	101	237 > 230 [Ref] beq 372002300 New 372002300 Will 0 Hell 0				
History		None	racallad with the source	address T	aken from a workstation in our DMZ but running a host-based firewall.				
	0	Yes.	iccanca with the source	addicss. 1	aken from a workstation in our Diviz out running a nost-based me wan.				
Active Targeting	•		Y NET		W. Cl. ad P.1.				
V //Y				. We re-Ghost the disk image on a regular basis.					
Lethality 3		3	DoS attack.						
System Countermeasures		4	OS has latest service pack (6a) installed.						
Network Counter	Network Countermeasures		Host-based firewall.						
Severity		-5	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)						
Notes			This is a DoS attack using fragmented packets. The hacker <i>may</i> have fingerprinted the workstation earlier and						
= 1000	discovered it is an NT box. Older versions of NT did not handle fragmented packets well, but this has been fix								
	several service packs ago.								

Detect #9										
	_					_				
Time	Source		Destination		cocol I					
14:34:08.4679	hacker.com		my.computer.com	TCP				Seq=1127040 Ack=0 Win=8192 Len=0		
14:34:08.4679				TCP				ACK] Seq=0 Ack=1127041 Win=0 Len=0		
14:34:08.4980		**************************** Non-relevant traffic deleted **********************								
14:34:08.4980		*************************** Non-relevant traffic deleted ***********************								
14:34:08.6081	****	********************* Non-relevant traffic deleted **********************								
14:34:08.6782	****	********************* Non-relevant traffic deleted **********************								
14:34:08.8284	****	**************************************								
14:34:08.8985	hacker.com		my.computer.com	TCP				Seq=1127040 Ack=0 Win=8192 Len=0		
14:34:08.8985	my.computer.com			TCP				ACK] Seq=0 Ack=1127041 Win=0 Len=0		
14:34:09.1589	****	***************************** Non-relevant traffic deleted *********************								
14:34:09.1889	*************************** Non-relevant traffic deleted **********************									
14:34:09.3892	************************** Non-relevant traffic deleted ***********************									
14:34:09.3992	hacker.co	om	my.computer.com	TCP	1044	> 20034	[SYN]	Seq=1127040 Ack=0 Win=8192 Len=0		
14:34:09.3992	4:34:09.3992 my.compu		hacker.com	TCP	20034	1 > 1044	[RST,	ACK] Seq=0 Ack=1127041 Win=0 Len=0		
14:34:09.9000	hacker.com		my.computer.com	TCP	1044	> 20034	[SYN]	Seq=1127040 Ack=0 Win=8192 Len=0		
14:34:09.9000	my.compu	ter.com	hacker.com	TCP	20034	1 > 1044	[RST,	ACK] Seq=0 Ack=1127041 Win=0 Len=0		
		A								
History		None recorded from this source address.								
<b>Active Targeting</b>	?	Yes!								
Criticality		3	Workstation.							
Lethality		5	Remote control Trojan.							
System Countermeasures		3	Patches are up to date, but our antivirus software doesn't catch Net Bus.							
<b>Network Countermeasures</b>		4	Host-based firewall.							
Severity		1	Severity = (Criticality + Lethality) – (System Countermeasures + Network Countermeasures)							
Notes		This came from a computer in our DMZ. Looks like a Net Bus 2 Pro scan (http://netbus.org/) based upon the TCP								
Tittes		port 20034 probe (http://www.simovits.com/nyheter9902.html). Fortunately the firewall rejected the attempt. This is								
the only Net Bus scan I've detected (so far!).										

Detect #10											
Time	e Source		Destination	Protocol	—						
23:40:06.4716 cablemodem.ne		em.net	my.cablemodem.net	UDP	Source port: 1417 Destination port: 31337						
23:40:11.4788 cablemodem.ne		em.net	my.cablemodem.net	UDP	Source port: 1417 Destination port: 31337						
23:40:16.4860 cablemodem.net		my.cablemodem.net	UDP	Source port: 1417 Destination port: 31337							
23:40:21.4932	23:40:21.4932 cablemodem.net		my.cablemodem.net	UDP	Source port: 1417 Destination port: 31337						
23:40:26.5004	23:40:26.5004 cablemodem.net		my.cablemodem.net	UDP	Source port: 1417 Destination port: 31337						
History		Taken	from a computer attached to a cabl	e modem. I d	don't know if this source address has probed this system before.						
·		I don't really keep track of BO Pings on this system because it happens so often.									
<b>Active Targeting</b>	?	Yes.									
Criticality		2	Just a home computer without any critical data on it.								
Lethality		4	Trojan that gives the hacker remote control of the system.								
System Countermeasures		5	Antivirus software was installed and up to date, which would catch if BO were running								
			( <a href="http://vil.nai.com/villib/dispVirus.asp?virus_k=10002">http://vil.nai.com/villib/dispVirus.asp?virus_k=10002</a> ). OS is running latest patches.								
Network Countermeasures		4	4 Firewall.								
Severity		-3	Severity = (Criticality + Lethality) - (System Countermeasures + Network Countermeasures)								
Notes		This is a probe to see if the Back Orifice Trojan ( <a href="http://www.cultdeadcow.com/tools/">http://www.cultdeadcow.com/tools/</a> ) is running on my computer.									
Giv			ven that Back Orifice is configurable, more sophisticated hackers will modify the destination port from the default								
	of 31337. Since this scan is on the default UDP port of 31337 (http://www.simovits.com/nyheter9902.html), I										
su			suspect a "script kiddie" at play. This particular scan came from the same cable modem system that I'm on.								