

Kali Telnet Client and Wireshark Capture

The presentation will use Kali Linux capture telnet and ssh packets. Kali will use Wireshark to capture the packets.

Preuss

4/28/2014



Computer



Kali Live

The presentation logs into Kali Linux.

KALI LINUX

The quieter you become, the more you are able to hear.

The Wireshark Network Analyzer [Wireshark 1.10.2 (SVN Rev 51934 from /trunk-1.10)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help



Filter: Expression... Clear Apply Save



The World's Most Popular Network Protocol Analyzer

Version 1.10.2 (SVN Rev 51934 from /trunk-1.10)

Capture

Interface List

Live list of the capture interfaces (counts incoming packets)

Start

Choose one or more interfaces to capture from, then Start

- eth0
- nflog
- any

Capture Options

Start a capture with detailed options

Capture Help

Files

Open

Open Recent

Save

A rich

Online

Website

the project's website

User's Guide

User's Guide (online version)

Security

with Wireshark as securely as possible

The presentation starts Wireshark. The wireshark captures will come from eth0.

Make sure Kali is bridge or NAT, depending on your needs. Also, you must have permission from the network owner to capture packets.

Ready to load or capture

No Packets

Profile: Default

Capturing from eth0 [Wireshark 1.10.2 (SVN Rev 51934 from /trunk-1.10)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help



Filter: [] Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	Nortel_c9:10:01	Spanning-tree- (for-bri	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Port
2	0.164103000	192.168.65.2	54.83.197.43	TCP	62	50181 > http [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_
3	0.174075000	192.168.65.2	54.83.197.43	TCP	62	50182 > http [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_
4	1.575162000	192.168.65.2	134.29.228.9	TCP	66	50184 > ipp [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 S
5	1.575173000	192.168.65.2	134.29.228.9	TCP	66	50183 > ipp [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 S
6	1.810010000	Nortel_c9:10:01	Nortel-autodiscovery	NDP	60	FlatNet Hello
7	1.999921000	Nortel_c9:10:01	Spanning-tree- (for-bri	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Port

Kali Wireshark is capturing packets successfully.

- + Frame 1: 60 bytes on wire (480 bits), 60 bytes captured (480 bi
- + IEEE 802.3 Ethernet
- + Logical-Link Control
- + Spanning Tree Protocol

```

0000  01 80 c2 00 00 00 00 19 e1 c9 10 01 00 26 42 42  .....&BB
0010  03 00 00 00 00 00 80 00 00 19 e1 c9 10 01 00 00  .....
0020  00 00 80 00 00 19 e1 c9 10 01 80 03 00 00 14 00  .....
0030  02 00 0f 00 b6 db 6d 00 00 00 00 00  .....m. ....

```

eth0: <live capture in progress> Fil... Packets: 7 · Displayed: 7 (100.0%) Profile: Default





Computer



Kali Live

root@kali: ~

File Edit View Search Terminal Help

root@kali:~# telnet 192.168.66.19

The presentation opens the command prompt. At the command prompt, the presentation enters the telnet command with the IP address or FQDN of the telnet server.

Remember to use [] around IPv6 addresses.

KALI LINUX

Welcome, the more you are able to hear.



Computer



Kali Live

albatross08@msctc-linux-spring2014a:~

File Edit View Search Terminal Help

```
root@kali:~# telnet 192.168.66.19
Trying 192.168.66.19...
Connected to 192.168.66.19.
Escape character is '^]'.
Welcome to openSUSE 13.1 "Bottle" - Kernel 3.11.10-7-desktop
msctc-linux-spring2014a login: albatross08
Password:
Last login: Mon Apr 28 13:23:15 CDT 2014 from 192.168.65.254 on pts/3
No mail.
Last login: Mon Apr 28 13:23:43 from 192.168.65.254
Have a lot of fun...
Directory: /home/albatross08
Mon Apr 28 13:23:43 CDT 2014
albatross08@msctc-linux-spring2014a:~> fortune
greenrd's law
    Evey post disparaging someone else's spelling or grammar, or lauding
    one's own spelling or grammar, will inevitably contain a spelling or
    grammatical error.
    -- greenrd in http://www.kuro5hin.org/comments/2002/4/16/61744/5
230?pid=5#6
albatross08@msctc-linux-spring2014a:~> █
```

The presentation logs into the telnet server as albatross08. After successful login, the presentation enters the fortune program on the telnet server.

Once the presentation is done. The presentation will enter the command exit to leave the telnet server.

KALI LINUX

The quieter you become, the more you are able to hear.



Computer



Kali Live

```
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ssh -l albatross08 [192.168.66.19
```

The presentation opens the command prompt. At the command prompt, the presentation enters the ssh command with the IP address or FQDN of the sshd server. The lower case minus L allows entering a different login name for the ssh server.

Remember to use [] around IPv6 addresses.

The question is asking if you really trust the host to be who you think. The answer is yes or no.



Computer



Kali Live

```
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ssh 192.168.66.19
The authenticity of host '192.168.66.19 (192.168.66.19)' can't be established.
ECDSA key fingerprint is 4b:42:bb:f9:a5:10:20:23:95:ec:ca:d1:9b:45:df:1b.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.66.19' (ECDSA) to the list of known hosts.
```

The presentation opens the command prompt. At the command prompt, the presentation enters the ssh command with the IP address or FQDN of the sshd server.

Remember to use [] around IPv6 addresses.

The question is asking if you really trust the host to be who you think. The answer is yes or no.



Computer



Kali Live

```
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ssh -l albatross08 192.168.66.19
Password:
Last login: Mon Apr 28 13:23:43 2014 from 192.168.65.254
Have a lot of fun...
albatross08@msctc-linux-spring2014a:~> fortune
Given a choice between grief and nothing, I'd choose grief.
-- William Faulkner
albatross08@msctc-linux-spring2014a:~> |
```

The presentation successfully log into the sshd server. The presentation ran the fortune program for fun.



Computer



Kali Live

root@kali: ~

File Edit View Search Terminal Help

```
root@kali:~# ssh -l albatross08 192.168.66.19
Password:
Last login: Mon Apr 28 13:23:43 2014 from 192.168.65.254
Have a lot of fun...
albatross08@msctc-linux-spring2014a:~> fortune
Given a choice between grief and nothing, I'd choose grief.
-- William Faulkner
albatross08@msctc-linux-spring2014a:~> exit
```

The presentation enters the exit command to leave the sshd server.

*eth0 [Wireshark 1.10.2 (SVN Rev 51934 from /trunk-1.10)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help



Filter: Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
7	1.999921000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
8	3.999861000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
9	5.999769000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
12	7.999720000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
13	9.999904000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
15	11.999543000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
19	13.999469000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po
23	15.999440000	Nortel_c9:10:01	Spanning-tree- (for-bri STP	STP	60	Conf. Root = 32768/0/00:19:e1:c9:10:01 Cost = 0 Po

The presentation clicks the Protocol header to sort all the files by protocol.

Frame 1: 60 bytes on wire (480 bits) captured on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol

```
0000 01 80 c2 00 00 00 00 19 e1 c9 10 01 00 26 42 42 .....&BB
0010 03 00 00 00 00 00 80 00 00 19 e1 c9 10 01 00 00 .....
0020 00 00 80 00 00 19 e1 c9 10 01 80 03 00 00 14 00 .....
0030 02 00 0f 00 b6 db 6d 00 00 00 00 00 .....m. ....
```


Wireshark: Save Follow Stream As

Name:

Save in folder: Create Folder

The presentation gives the file a name, then saves the file.

	Size	Modified
		02/12/2014
C01_04162014.html	42.7 kB	04/16/2014
C02_04162014.html	42.9 kB	04/16/2014
erver01_04162014.html	32.1 kB	04/16/2014
_spring2014-1.html	7.1 kB	04/08/2014
_spring2014-2.html	34.8 kB	04/09/2014
ture_01.txt	1.1 kB	19:46
XP_br166_01.html	32.9 kB	04/09/2014

Cancel Save

```
0030  00 e3 cf 87 00 00 01 01 08 0a 00 0b af 87 ff ff  .....
0040  bc f8 0d 0a 6c 6f 67 6f 75 74 0d 0a  ....logo ut..
```

File: "/tmp/wireshark_pcapng_eth0... Packets: 1209 · Displayed: 146 (12.1%) · Dropped: 0 (0.0%) Profile: Default