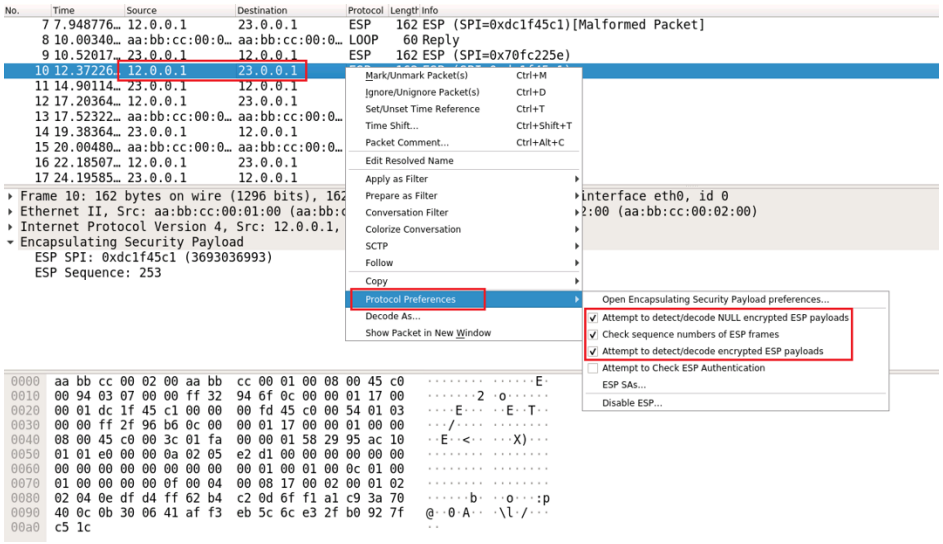
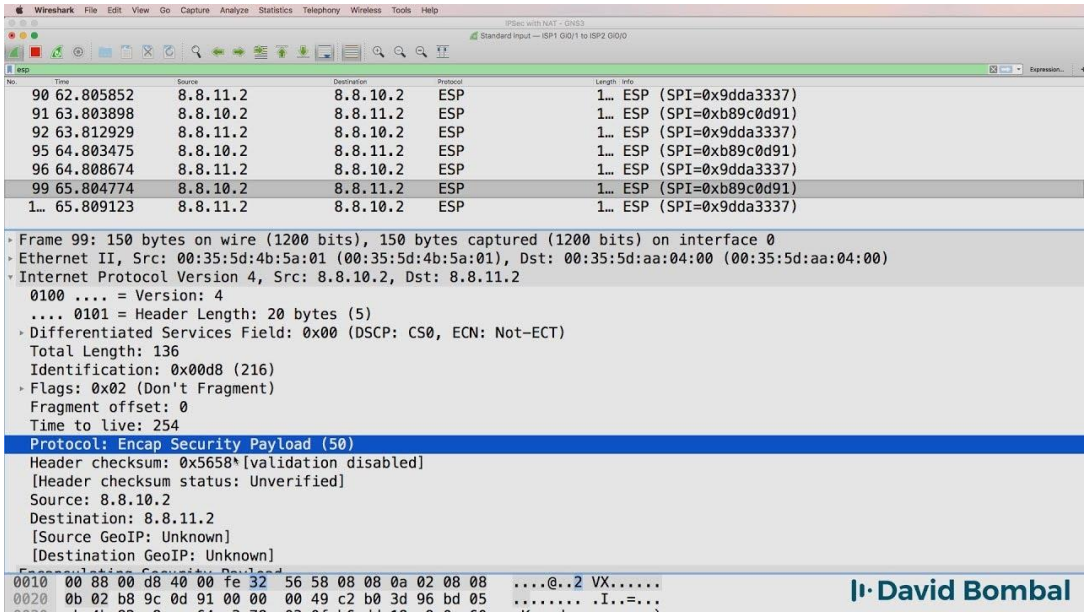
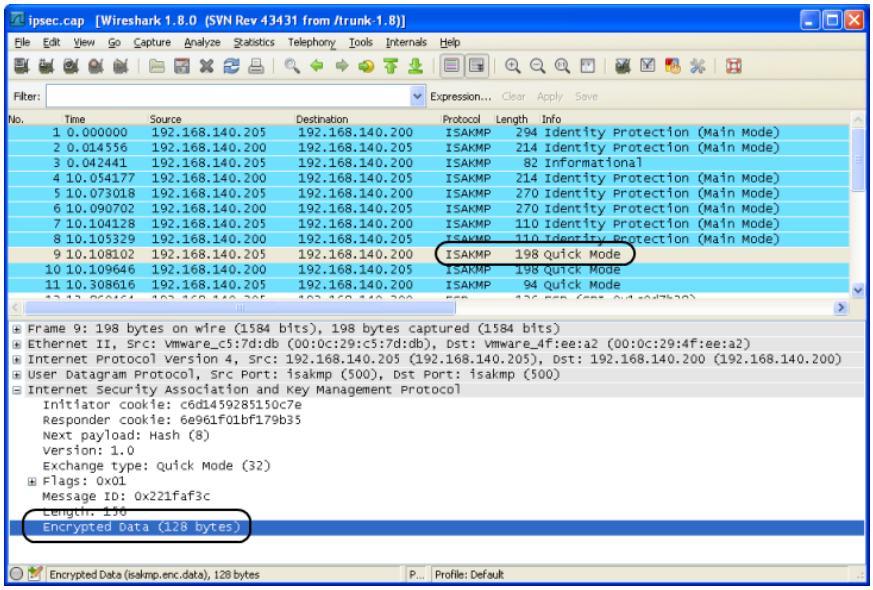
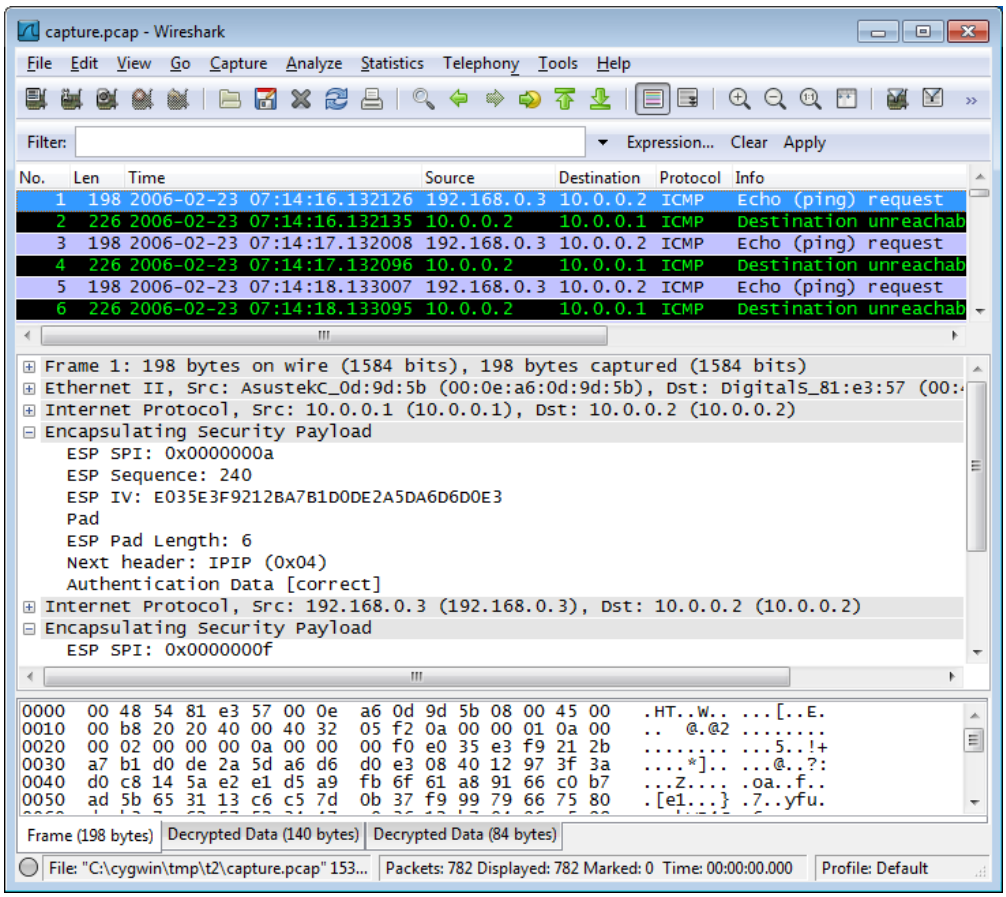

No. Time Source Destination Protocol Length Info
7 7.948776… 12.0.0.1 23.0.0.1 ESP 162 ESP (SPI=0xdc1f45c1)[Malformed Packet]
8 10.00340… aa:bb:cc:00:0… aa:bb:cc:00:0… LOOP 60 Reply
9 10.52017… 23.0.0.1 12.0.0.1 ESP 162 ESP (SPI=0x70fc225e)
10 12.37226… 12.0.0.1 23.0.0.1
11 14.90114… 23.0.0.1 12.0.0.1
12 17.20364… 12.0.0.1 23.0.0.1
13 17.52322… aa:bb:cc:00:0… aa:bb:cc:00:0…
14 19.38364… 23.0.0.1 12.0.0.1
15 20.00480… aa:bb:cc:00:0… aa:bb:cc:00:0…
16 22.18507… 12.0.0.1 23.0.0.1
17 24.19585… 23.0.0.1 12.0.0.1
Frame 10: 162 bytes on wire (1296 bits), 162
Ethernet II, Src: aa:bb:cc:00:01:00 (aa:bb:c
Internet Protocol Version 4, Src: 12.0.0.1,
Encapsulating Security Payload
ESP SPI: 0xdc1f45c1 (3693036993)
ESP Sequence: 253
Mark/Unmark Packet(s) Ctrl+M
Ignore/Unignore Packet(s) Ctrl+D
Set/Unset Time Reference Ctrl+T
Time Shift... Ctrl+Shift+T
Packet Comment... Ctrl+Alt+C
Edit Resolved Name
Apply as Filter
Prepare as Filter
Conversation Filter
Colorize Conversation
SCTP
Follow
Copy
Protocol Preferences
Decode As...
Show Packet in New Window
Open Encapsulating Security Payload preferences...
Attempt to detect/decode NULL encrypted ESP payloads
Check sequence numbers of ESP frames
Attempt to detect/decode encrypted ESP payloads
Attempt to Check ESP Authentication
ESP SAs...
Disable ESP...
interface eth0, id 0
2:00 (aa:bb:cc:00:02:00)
0000 aa bb cc 00 02 00 aa bb cc 00 01 00 08 00 45 c0
0010 00 94 03 07 00 00 ff 32 94 6f 0c 00 00 01 17 00
0020 00 01 dc 1f 45 c1 00 00 00 fd 45 c0 00 54 01 03
0030 00 00 ff 2f 96 b6 0c 00 00 01 17 00 00 01 00 00
0040 08 00 45 c0 00 3c 01 fa 00 00 01 58 29 95 ac 10
0050 01 01 e0 00 00 0a 02 05 e2 d1 00 00 00 00 00 00
0060 00 00 00 00 00 00 00 00 00 01 00 01 00 0c 01 00
0070 01 00 00 00 00 0f 00 04 00 08 17 00 02 00 01 02
0080 02 04 0e df d4 ff 62 b4 c2 0d 6f f1 a1 c9 3a 70
0090 40 0c 0b 30 06 41 af f3 eb 5c 6c e3 2f b0 92 7f
00a0 c5 1c


Wireshark File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
IPSec with NAT - GNS3
Standard Input — ISP1 Gi0/1 to ISP2 Gi0/0
esp
No. Time Source Destination Protocol Length Info
90 62.805852 8.8.11.2 8.8.10.2 ESP 1… ESP (SPI=0x9dda3337)
91 63.803898 8.8.10.2 8.8.11.2 ESP 1… ESP (SPI=0xb89c0d91)
92 63.812929 8.8.11.2 8.8.10.2 ESP 1… ESP (SPI=0x9dda3337)
95 64.803475 8.8.10.2 8.8.11.2 ESP 1… ESP (SPI=0xb89c0d91)
96 64.808674 8.8.11.2 8.8.10.2 ESP 1… ESP (SPI=0x9dda3337)
99 65.804774 8.8.10.2 8.8.11.2 ESP 1… ESP (SPI=0xb89c0d91)
1… 65.809123 8.8.11.2 8.8.10.2 ESP 1… ESP (SPI=0x9dda3337)
Frame 99: 150 bytes on wire (1200 bits), 150 bytes captured (1200 bits) on interface 0
Ethernet II, Src: 00:35:5d:4b:5a:01 (00:35:5d:4b:5a:01), Dst: 00:35:5d:aa:04:00 (00:35:5d:aa:04:00)
Internet Protocol Version 4, Src: 8.8.10.2, Dst: 8.8.11.2
0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 136
Identification: 0x00d8 (216)
Flags: 0x02 (Don't Fragment)
Fragment offset: 0
Time to live: 254
Protocol: Encap Security Payload (50)
Header checksum: 0x5658 [validation disabled]
[Header checksum status: Unverified]
Source: 8.8.10.2
Destination: 8.8.11.2
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
0010 00 88 00 d8 40 00 fe 32 56 58 08 08 0a 02 08 08
0020 0b 02 b8 9c 0d 91 00 00 00 49 c2 b0 3d 96 bd 05
David Bombal


ipsec.cap [Wireshark 1.8.0 (SVN Rev 43431 from /trunk-1.8)]
File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help
Filter: Expression... Clear Apply Save
No. Time Source Destination Protocol Length Info
1 0.000000 192.168.140.205 192.168.140.200 ISAKMP 294 Identity Protection (Main Mode)
2 0.014556 192.168.140.200 192.168.140.205 ISAKMP 214 Identity Protection (Main Mode)
3 0.042441 192.168.140.205 192.168.140.200 ISAKMP 82 Informational
4 10.054177 192.168.140.200 192.168.140.205 ISAKMP 214 Identity Protection (Main Mode)
5 10.073018 192.168.140.205 192.168.140.200 ISAKMP 270 Identity Protection (Main Mode)
6 10.090702 192.168.140.200 192.168.140.205 ISAKMP 270 Identity Protection (Main Mode)
7 10.104128 192.168.140.205 192.168.140.200 ISAKMP 110 Identity Protection (Main Mode)
8 10.105329 192.168.140.200 192.168.140.205 ISAKMP 110 Identity Protection (Main Mode)
9 10.108102 192.168.140.205 192.168.140.200 ISAKMP 198 Quick Mode
10 10.109646 192.168.140.200 192.168.140.205 ISAKMP 198 Quick Mode
11 10.308616 192.168.140.205 192.168.140.200 ISAKMP 94 Quick Mode
Frame 9: 198 bytes on wire (1584 bits), 198 bytes captured (1584 bits)
Ethernet II, Src: Vmware_c5:7d:db (00:0c:29:c5:7d:db), Dst: Vmware_4f:ee:a2 (00:0c:29:4f:ee:a2)
Internet Protocol Version 4, Src: 192.168.140.205 (192.168.140.205), Dst: 192.168.140.200 (192.168.140.200)
User Datagram Protocol, Src Port: isakmp (500), Dst Port: isakmp (500)
Internet Security Association and Key Management Protocol
Initiator cookie: c6d1459285150c7e
Responder cookie: 6e961f01bf179b35
Next payload: Hash (8)
Version: 1.0
Exchange type: Quick Mode (32)
Flags: 0x01
Message ID: 0x221faf3c
Length: 156
Encrypted Data (128 bytes)
Encrypted Data (isakmp.enc.data), 128 bytes
Profile: Default


capture.pcap - Wireshark
File Edit View Go Capture Analyze Statistics Telephony Tools Help
Filter: Expression... Clear Apply
No. Len Time Source Destination Protocol Info
1 198 2006-02-23 07:14:16.132126 192.168.0.3 10.0.0.2 ICMP Echo (ping) request
2 226 2006-02-23 07:14:16.132135 10.0.0.2 10.0.0.1 ICMP Destination unreachab
3 198 2006-02-23 07:14:17.132008 192.168.0.3 10.0.0.2 ICMP Echo (ping) request
4 226 2006-02-23 07:14:17.132096 10.0.0.2 10.0.0.1 ICMP Destination unreachab
5 198 2006-02-23 07:14:18.133007 192.168.0.3 10.0.0.2 ICMP Echo (ping) request
6 226 2006-02-23 07:14:18.133095 10.0.0.2 10.0.0.1 ICMP Destination unreachab
Frame 1: 198 bytes on wire (1584 bits), 198 bytes captured (1584 bits)
Ethernet II, Src: AsustekC_0d:9d:5b (00:0e:a6:0d:9d:5b), Dst: DigitalS_81:e3:57 (00:
Internet Protocol, Src: 10.0.0.1 (10.0.0.1), Dst: 10.0.0.2 (10.0.0.2)
Encapsulating Security Payload
ESP SPI: 0x0000000a
ESP Sequence: 240
ESP IV: E035E3F9212BA7B1D0DE2A5DA6D6D0E3
Pad
ESP Pad Length: 6
Next header: IPIP (0x04)
Authentication Data [correct]
Internet Protocol, Src: 192.168.0.3 (192.168.0.3), Dst: 10.0.0.2 (10.0.0.2)
Encapsulating Security Payload
ESP SPI: 0x0000000f
0000 00 48 54 81 e3 57 00 0e a6 0d 9d 5b 08 00 45 00 .HT..W.. ...[..E.
0010 00 b8 20 20 40 00 40 32 05 f2 0a 00 00 01 0a 00 .. @.@2 ........
0020 00 02 00 00 00 0a 00 00 00 f0 e0 35 e3 f9 21 2b ........ ...5..!+
0030 a7 b1 d0 de 2a 5d a6 d6 d0 e3 08 40 12 97 3f 3a ....*].. ...@..?:
0040 d0 c8 14 5a e2 e1 d5 a9 fb 6f 61 a8 91 66 c0 b7 ...Z.... .oa..f..
0050 ad 5b 65 31 13 c6 c5 7d 0b 37 f9 99 79 66 75 80 .[e1...} .7..yfu.
Frame (198 bytes)
Decrypted Data (140 bytes)
Decrypted Data (84 bytes)
File: "C:\cygwin\tmp\t2\capture.pcap" 153...
Packets: 782 Displayed: 782 Marked: 0 Time: 00:00:00.000
Profile: Default