INSTITUTO TECNOLOGICO DE CANCUN

Nombre De La Materia: Fundamentos De Telecomunicaciones

Nombre De La Unidad: Sistemas de comunicación

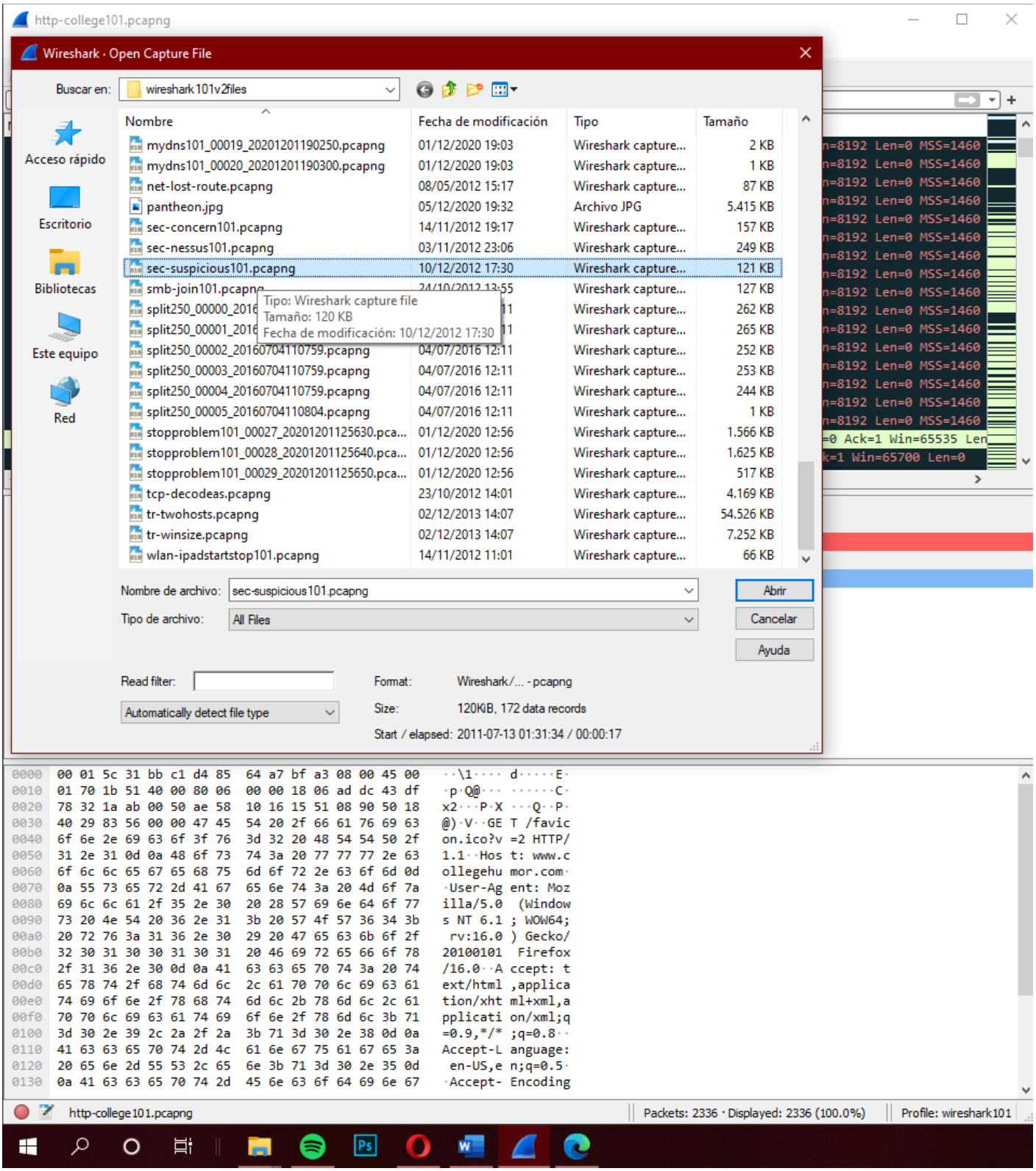
N.º De Actividad: Laboratorio 40

Nombre Del Alumno: Vazquez Canto Andres Omar

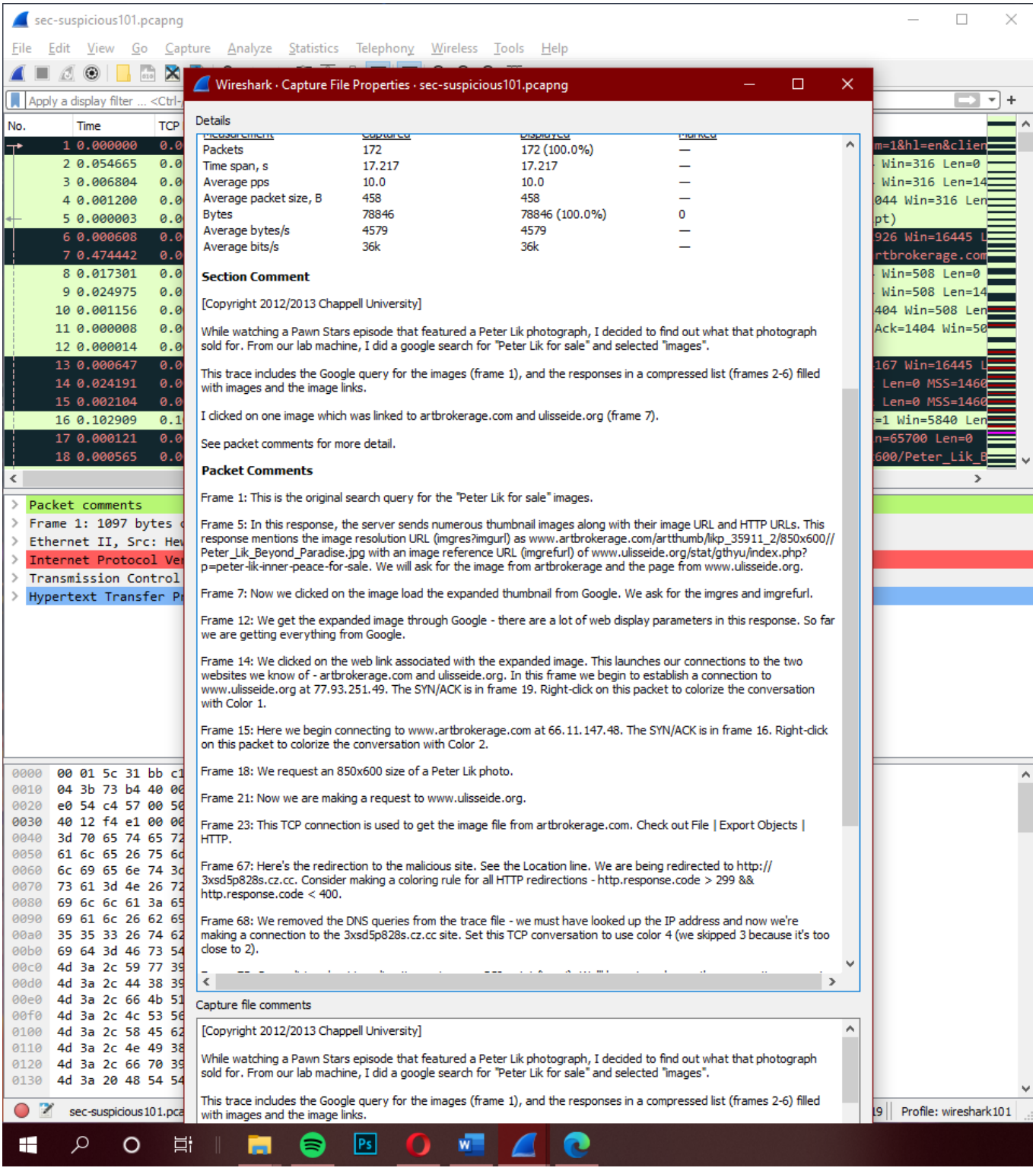
N.º De Control: 17530439

Lab40- Read Analysis Notes in a Malicious Redirection Trace File

Paso 1:



Paso 2:


sec-suspicious101.pcapng
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Wireshark · Capture File Properties · sec-suspicious101.pcapng
Details
Packets 172 172 (100.0%) —
Time span, s 17.217 17.217 —
Average pps 10.0 10.0 —
Average packet size, B 458 458 —
Bytes 78846 78846 (100.0%) 0
Average bytes/s 4579 4579 —
Average bits/s 36k 36k —
Section Comment
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While watching a Pawn Stars episode that featured a Peter Lik photograph, I decided to find out what that photograph sold for. From our lab machine, I did a google search for "Peter Lik for sale" and selected "images".
This trace includes the Google query for the images (frame 1), and the responses in a compressed list (frames 2-6) filled with images and the image links.
I clicked on one image which was linked to artbrokerage.com and ulisseide.org (frame 7).
See packet comments for more detail.
Packet Comments
Frame 1: This is the original search query for the "Peter Lik for sale" images.
Frame 5: In this response, the server sends numerous thumbnail images along with their image URL and HTTP URLs. This response mentions the image resolution URL (imgres?imgurl) as www.artbrokerage.com/artthumb/likp_35911_2/850x600//Peter_Lik_Beyond_Paradise.jpg with an image reference URL (imgrefurl) of www.ulisseide.org/stat/gthyu/index.php?p=peter-lik-inner-peace-for-sale. We will ask for the image from artbrokerage and the page from www.ulisseide.org.
Frame 7: Now we clicked on the image load the expanded thumbnail from Google. We ask for the imgres and imgrefurl.
Frame 12: We get the expanded image through Google - there are a lot of web display parameters in this response. So far we are getting everything from Google.
Frame 14: We clicked on the web link associated with the expanded image. This launches our connections to the two websites we know of - artbrokerage.com and ulisseide.org. In this frame we begin to establish a connection to www.ulisseide.org at 77.93.251.49. The SYN/ACK is in frame 19. Right-click on this packet to colorize the conversation with Color 1.
Frame 15: Here we begin connecting to www.artbrokerage.com at 66.11.147.48. The SYN/ACK is in frame 16. Right-click on this packet to colorize the conversation with Color 2.
Frame 18: We request an 850x600 size of a Peter Lik photo.
Frame 21: Now we are making a request to www.ulisseide.org.
Frame 23: This TCP connection is used to get the image file from artbrokerage.com. Check out File | Export Objects | HTTP.
Frame 67: Here's the redirection to the malicious site. See the Location line. We are being redirected to http://3xsd5p828s.cz.cc. Consider making a coloring rule for all HTTP redirections - http.response.code > 299 && http.response.code < 400.
Frame 68: We removed the DNS queries from the trace file - we must have looked up the IP address and now we're making a connection to the 3xsd5p828s.cz.cc site. Set this TCP conversation to use color 4 (we skipped 3 because it's too close to 2).
Capture file comments
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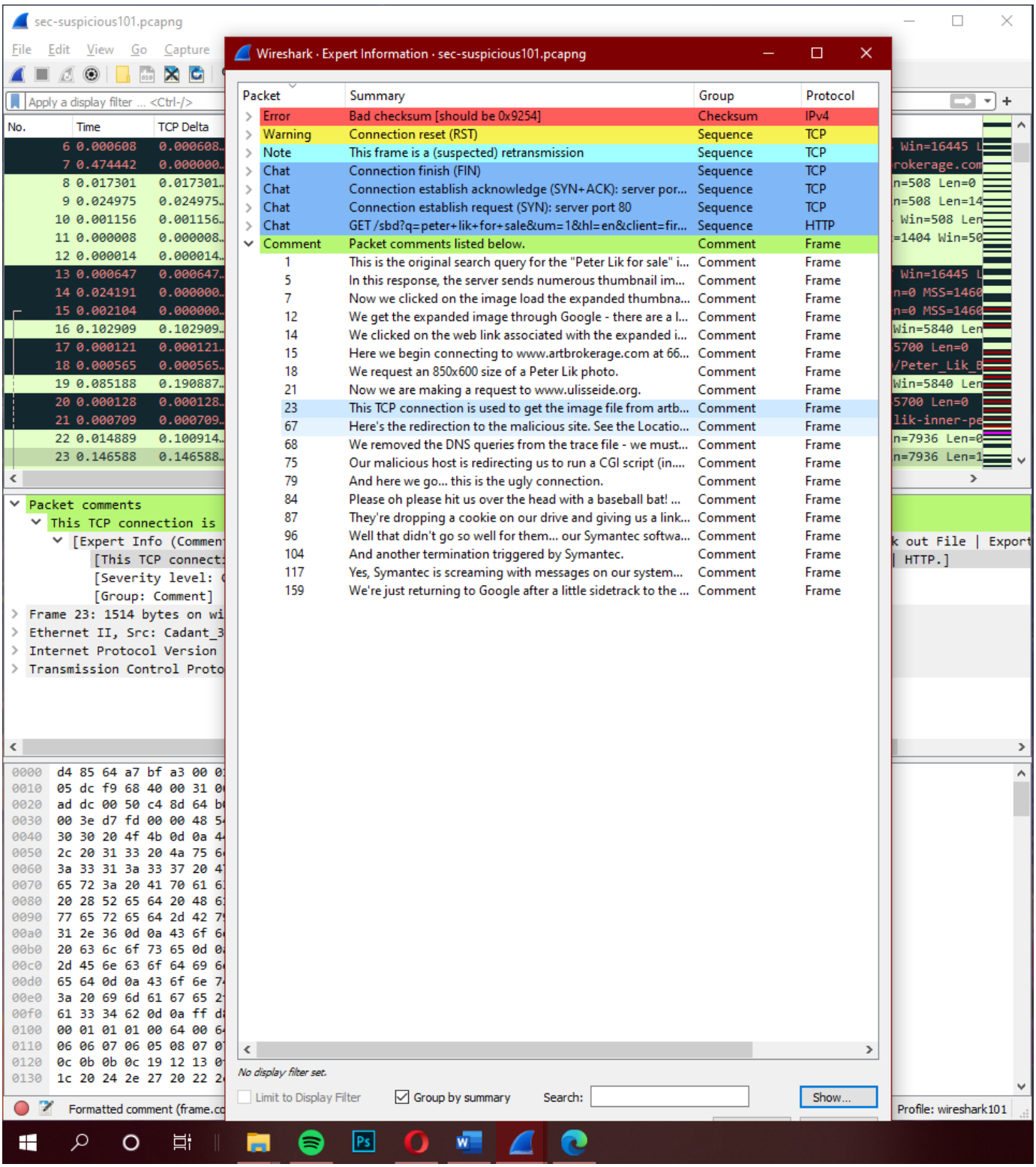
While watching a Pawn Stars episode that featured a Peter Lik photograph, I decided to find out what that photograph sold for. From our lab machine, I did a google search for "Peter Lik for sale" and selected "images".
This trace includes the Google query for the images (frame 1), and the responses in a compressed list (frames 2-6) filled with images and the image links.
Packet comments
Profile: wireshark101

Paso 3 y 4:


sec-suspicious101.pcapng
File Edit View Go Capture
Apply a display filter ... <Ctrl-/>
No. Time TCP Delta
Wireshark · Expert Information · sec-suspicious101.pcapng
Packet Summary Group Protocol
Error Bad checksum [should be 0x9254] Checksum IPv4
Warning Connection reset (RST) Sequence TCP
Note This frame is a (suspected) retransmission Sequence TCP
Chat Connection finish (FIN) Sequence TCP
Chat Connection establish acknowledge (SYN+ACK): server por... Sequence TCP
Chat Connection establish request (SYN): server port 80 Sequence TCP
Chat GET /sbd?q=peter+lik+for+sale&um=1&hl=en&client=fir... Sequence HTTP
Comment Packet comments listed below. Comment Frame
1 This is the original search query for the "Peter Lik for sale" i... Comment Frame
5 In this response, the server sends numerous thumbnail im... Comment Frame
7 Now we clicked on the image load the expanded thumbna... Comment Frame
12 We get the expanded image through Google - there are a l... Comment Frame
14 We clicked on the web link associated with the expanded i... Comment Frame
15 Here we begin connecting to www.artbrokerage.com at 66... Comment Frame
18 We request an 850x600 size of a Peter Lik photo. Comment Frame
21 Now we are making a request to www.ulisseide.org. Comment Frame
23 This TCP connection is used to get the image file from artb... Comment Frame
67 Here's the redirection to the malicious site. See the Locatio... Comment Frame
68 We removed the DNS queries from the trace file - we must... Comment Frame
75 Our malicious host is redirecting us to run a CGI script (in.... Comment Frame
79 And here we go... this is the ugly connection. Comment Frame
84 Please oh please hit us over the head with a baseball bat! ... Comment Frame
87 They're dropping a cookie on our drive and giving us a link... Comment Frame
96 Well that didn't go so well for them... our Symantec softwa... Comment Frame
104 And another termination triggered by Symantec. Comment Frame
117 Yes, Symantec is screaming with messages on our system... Comment Frame
159 We're just returning to Google after a little sidetrack to the ... Comment Frame
No display filter set.
Limit to Display Filter
Group by summary
Search:
Show...
Packet comments
Frame 23: 1514 bytes on wi
Ethernet II, Src: Cadant_3
Internet Protocol Version
Transmission Control Proto
Formatted comment (frame.co
Profile: wireshark101