## Demystifying Networking Department of Computer Science and Engineering Indian Institute of Technology, Bombay

## Lecture – 08

(Refer Slide Time: 00:01)



We can see how does these different applications communicate like for a web page, how is a request from browser sent to a website and the website server response to the request by fragmenting the packets and then reassembling it.

(Refer Slide Time: 00:19)

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For the ease of looking at the packets or trying to look at the information that is available in the packets, what I will do here is, I will add a filter here which will allow us to only see packets of websites.

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So now, what we see here is are different packets that are responsible for a website's communication to happen. So, further we will be learning about protocols like HTTP and TCP and how they enable these websites to exchange information. So, while I am doing this what I will do is I will open up Google chrome. So, this is the dummy website.

(Refer Slide Time: 01:03)

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67 21.807864 192,168.1.50 216.58.197, TCP	54 52482 + 88 [ACK] Seg-1 Ack-1 Min-17528 Lan-8		
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78 21.907735 99.86.19.59 192.168.1.50 TCP	58 88 + 52484 (5YM, ACK) Sep-8 Ack+1 Win+29200 Len-8 M55+1468		
79 21.907818 192.168.1.50 59.80.19.59 TOP	54 52484 + 88 [ACK] Sep-1 Acks1 Win=17528 Len-8		
100 21.962688 192.368.1.30 11.249.218. TCP	66 52406 + 88 [579] Segult Win-17538 Lenut MSS-1408 MS-256 SACK_FERE-1		
101 21.963277 192.168.1.50 13.249.210. 1CF	40 52407 + 88 [578] Seg-8 Win-17528 Lm=8 P55+1468 W5+258 SACK_PER5+1		
103 21.965388 13.249.218. 197.368.3.58 YCF	58 88 + 52406 [SYN, ACK] Seq=0 Ack=1 Win=29200 Let=8 265=1468		
104 21.965456 192.168.1.58 13.249.210. TOP	54 52486 + 88 [ACK] Seg-1 Ack-1 Win-17528 Lex-8		
105 21.966081 13.349.218. 192.168.1.50 TCP	58.80 + 52407 [599, ACK] Sep-8 Ack+1 Win+29200 Len+8 M55+1460		
100.21.956133.197.368.1.30.13.349.216. TCP	54 52407 + 00 [4CK] Segs1 Ack<1 Min<17520 Lun=0		
186 21.959334 192,168.1.58 13,249,218, TCP	1514 53486 + 80 [ACK] Seq-1 Ack-1 Win-17530 Len-1468 [TCP regnest of a reassembled PD0]		
100 21.969334 192,168.1.50 13.209.218, HTM	AGB GET / HITP/2.1		
111 21.978995 13.249.218, 192.168.1.58 TCP	60 80 + 51406 [ACK] Sep-1 Ack+1057 W1m-11120 Lee+0		
128 21.999510 192.168.1.50 99.86.19.11 TCP	36.33410 + 80 (SYN) Seare Win-17520 Len-0 MSS-1460 WS-236 SACK_MIRN-1		
129 22.006625 99.86.19.11 192.168.1.10 TCP	58.88 * 52438 [SYN, ACK] Sep-0 Ack+1 Win+29200 Len+8 MSS=1468		
130 22.00671A 192.168.1.50 99.86.19.11 TOP	54.52430 + 60 [ACK] Seg-1 Ack-1 Win-17520 Lan-0		
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So, as I click here what we see on Wireshark is a lot of other packets are being captured here. Now, all these captures are relevant to the websites traffic that was just requested by us on the browser. So, the http is the hypertext transfer protocol which is responsible for the communication between a browser and a web server. So, let us click on this.

(Refer Slide Time: 01:25)

Capturing from Wi-Pi			- 0
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66 21.887764 216.58.197, 192.168.1.5e TO	P 58.88 + 52482 (SVN, ACK) Sept8 Ack-1 Win-29280 Lend MSS-1468		
67 21.887864 192.168.1.58 216.58.197, TO	P 54 52402 + 88 [ACX] Sep-1 Ack-1 Min-17520 Len-8		
76 21.985732 192.168.1.58 99.86.19.59 10	P 00.52404 + 80 (SVV) Septel Min-17520 Lenvil P55+3400 M5+250 SACK PERI-1		
78 21.987735 99.86.19.59 192.168.1.58 TO	P 58.88 + 52464 [SYN, ACK] Sep-8 Ack+1 Win+29200 Len-8 755-1468		
79 21.907818 192.168.1.50 59.80.19.50 TO	P 54 52484 + 88 [ACK] Sepid Acked Wind2528 Lene#		
108 21.952588 192.168.1.50 12.249.210. TO	P 66.52486 + 88 (519) Sequel Win-17528 Lenvel P55+1468 V5+256 SACK_PERH-1		
101 21.963277 192.368.1.50 13.249.210. 10	P 66 52607 + 88 [576] Sep-0 Win-17520 Lm-0 P55+1400 W5+250 SACK PERH-1		
103 21.965388 13.249.216. 192.368.3.50 YO	# 58.88 + 52406 [SYN, ACK] Sequel Ack-1 30x-29200 Lenvel #55x1468		
104 21.965456 192.168.1.50 13.249.210. 70	P 34 52466 + 88 [ACK] Sepc] Ack-1 936-12528 Len-8		
105 21.966001 13.349.210. 192.368.3.50 TO	P. 58.80 = 53487 (599, ACK) Sep-B Ack+1 Win+29200 Lan+B M55+1460		
106 21.956133 102.168.1.30 13.349.218. TO	F 34 52407 + 80 [ACK] Sep-1 Ack-1 Min-17520 Lan-8		
108 21,969334 192,168.1.50 13,249.210, YO	P 1514 53466 + BR [ACK] Seg-1 Ack-1 Mid-17530 Len-1468 [TCF regment of a reassembled PDV]		
- 100 21.969134 192.168.1.30 13.209.218, HT	TP 488 GET 7 HTTP/1.1 OF THE DESCRIPTION OF THE DES		
111 21.978896 13.269.210, 192.168,1.58 TO	P 60.80 + 52686 (ACK) Seg-1 Ack+1867 kin=13528 Lee+8		
128 21.009510 192.168.1.50 09.86.10.11 10	P 66.32438 + 88 [SYN] Segre Win-17528 Lenne PS5+1468 WS+236 SACK_PTRN+1		
129 22.006625 99.86.19.11 192.168.1.58 TO	P 58.88 + 52418 [SYM, ACK] Seq=0 Ack+1 Win+29200 Len=0 M55-1460		
130 22.006714 192.158.1.50 99.86.19.11 TO	P 54 52410 + 60 [ACK] Seq-1 Ack-1 Win-12520 Len-0		
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So, what you see here are different layers of this communication or this piece of communication which we call packet. So, you will come to know more about packets in the further course. Now, what we see here different layers of this communication, now each packet is actually divided into different layers. So, you have physical data link layer, then you have network layer and the transport layer.

(Refer Slide Time: 01:51)

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64 21.005700 192.160.1.50 216.50.197, TOP	66 52482 + 88 (51%) Secul Win-17528 Level M55-2448 W5-256 SACK PERH-3	
66 21.887768 216.58.197. 192.168.1.58 TOF	58.88 + 12482 (SYN, 4CX) Septé Ack-1 Win-29360 Lende MSS-1468	
67 21.887864 192.168.1.58 218.58.197. TCP	54 52482 + MR [ACK] Sep-1 Ack-1 kEn-17528 Len-M	
76 21.905732 192.168.1.50 99.86.19.59 TCP	68 52484 + 88 [SYN] Sep-8 Win-17528 Len-8 855-1468 Win-256 SACK PERI-1	
78 21.987735 99.86.19.59 192.168.1.58 TCP	38.88 + 33464 [SYN, ACK] Sep-0 Ack+1 Win+29200 Len-0 P55+1468	
79 21.907818 192.188.1.50 59.80.19.59 TOP	34 52484 + 88 [ACK] Sepd Ackid Wind2528 Lend	
108 21.962888 192.168.1.50 11.249.210. TOP	66 52406 + 88 (379) Sep-8 Win-17528 Len-8 P55-1408 Wi-256 SACK PER-1	
101 21.963277 192.168.1.50 13.249.216. 709	40 12407 + 30 (379) Sep-0 kin-17320 Lm-0 755-1460 95-250 SACK 7585-1	
103 21,965188 13,349,218, 192,188,3.58 TCP	58 88 + 52486 [SYN, ACC] Sep-0 Ack-1 Min-29200 Len-8 PSS-1468	
104 21.965456 192.168.1.58 13.249.218. TOP	34 52466 + 88 [ACK] Seg-1 Ack-1 Viz-17528 Len-8	
105 21.966001 13.349.218. 192.168.1.50 TCP	58.88 + 52487 [399, ACK] Sep-R Ack-1 Win-29200 Lan-R MS-1460	
106 21.966133 102,168 1.10 13.349.218. TCP	34 32407 + 00 [4CK] Sep-1 Ack-1 kin-17520 Lan-0	
188 21,999334 192,168,1,58 13,249,218, TCP	1514 52486 + BP [ACK] Sep-1 Ack-1 Win-12520 Len-1468 [TCP segment of a reassembled PDV]	
- 100 21.969334 192.168.1.50 13.249.210. HTTP	468 GET / HITTP/1.1	
111 21,978896 13,249,218, 192,168,1,58 TCP	68.80 + 51886 [ACK] Sep-1 Ack-1867 kin-13138 Len-8	
128 21.999510 192.168.1.50 99.86.19.11 TCP	66.52428 + 88 [SYN] Sepré Win-17528 Lenné MSS-2468 WS-236 SACK PERN-1	
129 22.006625 99.86,19.11 192.168.1.30 TCP	58 88 + 52438 (5YN, ACK) 5eq-0 Ack+1 Win+29200 Len-0 M55=3468	
130 22.006718 192.168 1.50 99.00.19.11 TCP	34.32438 + 88 [ACK] Sep-1 Ack-1 Win-17528 Len-8	
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So, here what we see is the different information that is relevant to each layer like you have IP addresses in this layer and so, we come to know about these in detail as we go ahead with the course. So, what here I want to show is this hypertext transfer protocol request.

(Refer Slide Time: 02:05)

Capturing from Wi-Fi		- 5 X
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201 22 002021 192 168 1 50 11 269 218. 1(P 151)	A SANA + BE SAVE Send Arkel MinetPill Lendard [TUP segment of a reasonabled PDD]	
204 22 862974 192 168 1 50 13 269 218, WTP 47	1001 (Addesigns/Base/au(1)); etc. 8070/1.1	
205 22, 855666 102, 168 1, 50 13, 249, 218, TCP 153,	A SDALS + BR (ACA) Second Acked Min-1752R Lan-SAUR (TLP segment of a reasonabled PDA)	
206 22.865670 192.168.1.50 13.269.210. HTTP &F	8.641 JuserPages/Jeans/Frontendani.org/effane.assa/Culturetes-un-05.8019/1.1	
207 22.866776 33.249.218, 192.168.1.58 TCP 6	8 38 + 53487 [ACK] Sey-1 Ack-1882 45m-32220 Len-8	
200 22.067240 13.289.210. 152.168.1.50 TCP 64	0.00 + SAMA (ACK) Septi AckelETE Ministipo Level	
200 22,867655 13,249.218. 192,168.1.50 TCP 66	0.00 + 51415 [ACK] Sept] Ack-1040 Bit=12220 Level	
218 22.870821 192.108.1.50 13.249.216. TCF 151-	4.52412 + BF (ACK) Sep-1 Ack-1 Win-17520 Len-1400 (TCF segment of a reasonabled POD)	
211 22.870823 102.168.1.50 13.349.218. HTTP 47	) GCT /d/desiges/base/somelists.css HTTP/1.1	
213 22.870053 102.188.1.50 99.86.10.11 HTTP 143	1.677 /c/js/jesery-1.30.2.e6x.js HTTP/1.1	
213 22.872938 09.86.19.11 192.168.1.50 YCF 60	0.88 + 52428 [ACK] Segs] Ack-1288 Wit=10734 Lam-0	
214 22.876447 11.749.210. 192.168.1.50 TCF 64	0.00 + 52432 [ACK] Sep-1 Ack-1800 wike-52120 inv-0	
+ 220 22,959533 13,249,210, 192,168,3.50 TCP 4 111	5.80 + 52406 [P5H, ACK] Seu-15206 Ack-1867 Win-12220 Len-1861 [TCP segment of a reassembled PDV]	
221 22.968232 13.249.218. 192.168.1.58 TCP 6	4 00 + 52406 (PSH, ACK) Seq-16167 Ack-1807 Win-12120 Len-10 [TCP segment of a reasonabled POU]	
222 22.968334 192.168.1.58 13.249.210. TUP 5	4 52486 + 88 [ACK] Seq-1867 Ack-16177 Min-16489 Lan-8	
- 221 22.968738 13.249.218. 193.168.1.58 HTTP 5	6 HTP/1.3 200 GK (Sext/html)	
Z24 27.965888 192.168.1.58 13.249.218. TOF 54	4 52486 + 88 (ACK) 5eg-1867 Ack-16176 Min-16489 Len-8	
- 225 22.966115 192.168.1.56 15.269.216, TCP 5	6 52666 '+ BB [RST, ACK] Seq-2807 Ack-26178 Min-B 199-B	
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So, basically it says we had requested for this particular website. Wireshark tells you that the response of this request was seen in the frame 223. So, here are the frame numbers and let us scroll down to the frame 223. So, what we expect to see there is, there is another HTTP as we have seen earlier.

Now, this is the response to that request and there are lot of frames that we see in between. So, basically all these frames have been received to complete this entire communication and so, what does come in this communication? Here, let us open this packet and see what data was there.

(Refer Slide Time: 02:47)

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So, what you see here inside is actually the entire web page. So, it is the code of the webpage, the entire code of the webpage that we had requested. So, we could look at it by right clicking on the webpage and viewing the webpage source.

(Refer Slide Time: 03:05)

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10         10<	<pre>metry property "quite" control "Math / December 2018. Link latts cont / / //o metry property "quite / thick control "Math / December 2018. A set of process for and state and state. Holly, a prot metry property "quite / thick control "Math / December 2018. The first state of process for and state and state. Holly, a prot metry property "quite / thick control "Math / December 2018. The first state of process for and state and state. Holly, a prot metry property "quite / thick control "Math / December 2018. The first state of process for and state and state and state. Holly, a prot metry property "quite / thick control "Math / December 2018. The first state of the state of process for an expension of the state of process for an expension of the state of the st</pre>	lan for you to titll you" //W net plane for you to titll your story and let your vicitors ione a little over about y (/);MURLING = ("Donors" //Mar.ex-inta.set", "overstioners", "Ion.or-inta.set", "Licens established Story)/Constant/Story/Story/Mar.EMIZER" //W
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So, this is exactly what we had received from the server. So, this is how the entire web page has been sent to a laptop.

(Refer Slide Time: 03:23)

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168 27, 18998 192, 162 1, 58 99, 86, 19, 54 T(P) 66, 52621 + 89 (598) Secol bit=17529 Level #55-1668 95-276 56(\$ 5885-1	
161 22, 168411 09.86, 19.54 102, 168, 1, 59 107 58 88 + 13411 (198, 4CK) Securit Actual Min-25188 Lenot MSS-1468	
162 22. L48326 192, 158. 1. 58 19. 86. 19. 54. TOP 54 52411 + 00 [ALX] Secol Ack-1 Min-17528 Lenvel	
+ 165 22.633999 11.209.218. 192.188.1.10 TCF 1234 50 + 12466 (F54, ACE) Sept.1 Adv.1867 With 12130 [TCF segment of a reasonabled F50]	
1 100 22.634844 13.205.210. 192.106.1.50 TOP 1001 00 + 53406 [PS0, 4CK] Sep-1181 Ack-1067 kin-52220 Len-047 [VCP segment of a resismabled PD0]	
107 22.03004 13.369.210. 152.100.1.59 TOP 1514 BB = 32406 [4CK] Sep-2128 ArXe1007 wite-2220 Lee-1400 [TCP segment of a reasonabled P00]	
108 22,03006 13,385,210, 192,108,3,10 TCP 1514.00 + 53000 [ACK] 5ep-2500 Ack-1002 Min-12120 Lass-1000 [TCP segment of a reasonabled P00]	
109 22 634123 192 108 1 39 13 249 216 TCP 54 1346 + 0P [ACK] Sep1067 Ack-S648 Mix-1752P Len-P	
1 176 22.434877 11.349.116. 192.140.1.39 TCP L216 19 + 52406 [F96, ACK] Seq-5848 Arts-1867 Min-1012 [TCP segment of a representation PC0]	
171 22.63427 13.209.210. 192.108.1.09 TOP 256 HP + 52406 [Pts], 603 Yep-6224 Adv-1067 Win-12120 Lon-206 [TCP segment of a reasonabled PD0]	
122 22.630348 192.168.1.59 17.249.238. 30P 58.52466 + IW [4K8] 3mp/1067 Ack-6488 Vizv-20146 Len-0	
131 22.797190 11.245.218. 197.168.1.59 TCP 556 BB + 52486 [PSc, ACK] hep-6428 Ack-1867 Min-12120 Lemo86 [TCP segment of a reasonabiliat PGs]	
174 22.000620 13.269.219. 192.108.1.59 T09 1514 BF = 52406 [HCK] Sep-924 Ack-107 size-0228 Lee-1400 [TCF segment of a ressonabled P00]	
1 175 22.002634 13.205 210. 192.168.1.59 TOP 286 89 + 52466 [F96, Ack] Seq.4184 Acks1867 Wis-12120 Los-232 [TCP segment of a reasonabled P00]	
- 176 27. 602624 11.269.218. 197.168.1.59 TOP 118 89 + 52406 [PSH, 4KX] September 24, 51267 Mine 12120 Lon-266 [TCP segment of a reasonabled PBO]	
+ 177 22.000625 13.209.210. 192.000.1.00 TCP 1514 09 + 52406 [ACK] Sep-8000 Acto1067 site-12120 Leo-1460 [TCP segment of a reassembled PS0]	
178 22.082625 13.285.218. 197.168.1.56 TCP LDI 58 + 53466 (PSr), ACC Seq-16346 Act-3867 Stin-32128 Lon-274 [TCP segment of a reasonabled PDI]	
1 178 27.800125 13.268.218. 152.188.3.58 TOP 1516 88 + 52466 [4CK] Sept20018 Activate View-2020 Len-1808 [10P sugment of a reassenbled P00]	
109 22.003626 (J. 169.216, 192.166, 1.50 TOP 1514:00 = 51406 (ACK) Sep-12074 Ack-1867 Vin-12120 Len-1A08 (TOP segment of a reacted/ind PO0)	
140 27.802620 13.849.208. 197.100.1.38 TOP 1230 88 + 52480 [P94, 462] Sept1334 Act-1807 Min-5220 Los-1370 [TOP septemt of a researabled P00]	
142 22, 80 2627 13, 266, 216, 197, 188, 1, 18 TCP 458 89 + 52466 [P94, ACX] Sep-54718 Actes1807 Min-52120 Law-306 [TCP targent of a reaconsiled P00]	
181 22.002014 192, 000.1.30 13.200.210, 109 34 32400 + 109 [ACK] Sequille? ACK-15100 kin-17120 Len-0 9	
186 22.87533 197,109.1.39 11.269.210, 10P 66 52612 + 69 (199) 3mp# Mtm1759 Lm=# Ph1r468.85-256.5605 970941	
189 22, 599981 199, 108 1, 59 13, 269, 216, 10P 66 5343 + 69 [199] September 20, 61759 [send PSSs1466 20-256 5403, P189-1	
186 27, 67/37 11, 86, 736, 137, 166, 159 10P 36 89 + 52412 (596, 263) September 2023-1 8(16)/29/08 Line of Physicials	
187 22, 337664 132, 156, 1, 59 31, 249, 216, 107 54 52412 + 89 [403,] Sept.1 A(3-4) 936-17580 (2019)	
188 22,50709 332,100.1.59 33,209,210, 109 30 5033 + 80 (593) Segue 80.0-1258 Level Physical Biology 900-1	
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Now, how did this happen? Now before this entire response was received, we see there are a lot of packets that were received. So, all these were small-small packets which were sent to the laptop and here they were reassemble using their TCP information some something like a sequence number. We will learn more about it in the further course. So, this is how we can capture and look at live information on any of the laptop using Wireshark.

Thank you.