
Nombre de la materia: Fundamentos de Telecomunicaciones

Nombre de la licenciatura: Ingeniería en Sistemas Computacionales

Nombre del alumno(a):

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Unidad 2: Tarea : Laboratorio 2

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Fecha: 4 noviembre del 2020

Laboratorio 2

Capturing from Ethernet

Archivo Edición Visualización Ir Captura Analizar Estadísticas Telefonía Wireless Herramientas Ayuda

Aplicar un filtro de visualización: <Ctrl>F

No.	Time	Source	Destination	Protocol	Length	Info
143	33.790550	ASUSTekC_b8:b...	LLDP_Multicast	LLDP	207	MA/04:d4:c4:b8:b4:18 MA/04:d4:c4:b8:b4:18 20 SysN=RT-AC68U SysD= Linux 2.6.36.4brcmarm #1 SMP PRE
144	33.815308	52.109.12.20	192.168.50.194	TLSv1.2	161	Change Cipher Spec, Encrypted Handshake Message
145	33.819395	192.168.50.194	52.109.12.20	TLSv1.2	763	Application Data
146	33.875839	52.109.12.20	192.168.50.194	TLSv1.2	491	Application Data
147	33.915060	192.168.50.194	52.109.12.20	TCP	54	21562 → 443 [ACK] Seq=1115 Ack=6227 Win=262912 Len=0
148	34.000581	ASUSTekC_b8:b...	Spanning-tree	STP	60	Conf. Root = 32768/0/04:d4:c4:b8:b4:18 Cost = 0 Port = 0x8001
149	34.495228	192.168.50.194	3.208.123.62	TLSv1.2	451	Application Data
150	34.548338	3.208.123.62	192.168.50.194	TLSv1.2	355	Application Data
151	34.588548	192.168.50.194	3.208.123.62	TCP	54	21370 → 443 [ACK] Seq=1589 Ack=1205 Win=1026 Len=0
152	34.621415	52.113.194.132	192.168.50.194	TCP	60	443 → 21448 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
153	35.030526	192.168.50.194	224.0.0.251	MDNS	92	Standard query 0x0000 SRV mobile_epoccam_tcp.local, "QM" question TXT mobile_epoccam_tcp.local
154	35.310105	192.168.50.194	224.0.0.251	MDNS	92	Standard query 0x0000 SRV mobile_epoccam_tcp.local, "QM" question TXT mobile_epoccam_tcp.local
155	35.752045	192.168.50.194	162.159.137.2	TCP	55	21259 → 443 [ACK] Seq=1 Ack=1 Win=1024 Len=1 [TCP segment of a reassembled PDU]
156	35.817822	162.159.137.2	192.168.50.194	TCP	66	443 → 21259 [ACK] Seq=1 Ack=2 Win=68 Len=0 SLE=1 SRE=2
157	36.000601	ASUSTekC_b8:b...	Spanning-tree	STP	60	Conf. Root = 32768/0/04:d4:c4:b8:b4:18 Cost = 0 Port = 0x8001
158	36.327644	192.168.50.194	224.0.0.251	MDNS	92	Standard query 0x0000 SRV mobile_epoccam_tcp.local, "QM" question TXT mobile_epoccam_tcp.local

Frame 1: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface \Device\NPF_{69C96369-ED97-46A6-9643-670FEB74639F}, id 0

- IEEE 802.3 Ethernet
- Logical-Link Control
- Spanning Tree Protocol

0000 01 80 c2 00 00 00 04 d4 c4 b8 b4 18 00 26 42 428BB

Ethernet II (capture in progress) Paquetes: 158 · Mostrado: 158 (100.0%) Perfil: Default

Capturing from Ethernet

Archivo Edición Visualización Ir Captura Analizar Estadísticas Telefonía Wireless Herramientas Ayuda

Aplicar un filtro de visualización: <Ctrl>F

Wireshark - Conversations - Ethernet

Ethernet - 11	IPv4 - 43	IPv6 - 3	TCP - 60	UDP - 16	Bytes A - B	Packets A - B	Bytes B - A	Packets B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A
Address A	Address B	Packets	Bytes	Packets A - B	Bytes A - B	Packets B - A	Bytes B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A	
3.208.123.62	192.168.50.194	33	9460	11	3905	22	5555	4.076755	146.5608	213		303
13.107.4.254	192.168.50.194	1	60	1	60	0	0	9.9375247	0.0000	—		—
13.107.6.150	192.168.50.194	1	60	1	60	0	0	9.91135550	0.0000	—		—
13.107.6.254	192.168.50.194	1	60	1	60	0	0	9.93395440	0.0000	—		—
13.107.21.200	192.168.50.194	2	120	2	120	0	0	58.092230	39.7792	24		0
23.47.218.217	192.168.50.194	6	336	2	120	4	216	8.012893	104.2779	9		16
23.217.97.12	192.168.50.194	6	336	2	120	4	216	41.241508	0.0432	22 k		40 k
23.217.64.41	192.168.50.194	6	336	2	120	4	216	8.013014	104.2520	9		16
33.217.87.144	192.168.50.194	92	54 k	49	50 k	43	3668	91.213902	1.8888	214 k		15 k
34.196.158.58	192.168.50.194	8	506	4	290	4	216	41.242050	2.4758	937		698
34.233.62.27	192.168.50.194	8	506	4	290	4	216	41.242751	2.4751	937		61 k
37.228.108.133	192.168.50.194	50	23 k	26	13 k	24	9740	80.335074	1.2728	87 k		17 k
40.90.137.120	192.168.50.194	4	240	4	240	0	0	73.273901	22.6120	84		0
40.97.152.18	192.168.50.194	3	168	1	60	2	108	77.273094	0.0484	9917		9781
52.21.36.185	192.168.50.194	7	421	3	205	4	216	38.084639	38.2075	42		39 k
52.96.97.146	192.168.50.194	1	60	1	60	0	0	9.9352606	0.0000	—		101
52.109.2.16	192.168.50.194	3	168	1	60	2	108	77.272942	0.0883	5434		61 k
52.109.2.52	192.168.50.194	12	672	4	240	8	432	77.273019	0.0875	21 k		17 k
52.109.12.20	192.168.50.194	16	8234	8	6676	8	1536	31.638488	122.4074	436		9781
52.113.194.132	192.168.50.194	1	60	1	60	0	0	34.621415	0.0000	—		101
52.114.132.73	192.168.50.194	3	168	1	60	2	108	77.264030	0.0533	9001		16 k
52.134.59.32	192.168.50.194	1	60	1	60	0	0	96.384799	0.0000	—		17 k
52.154.245.177	192.168.50.194	5	353	3	245	2	108	11.368047	0.0002	—		17 k
52.167.250.154	192.168.50.194	3	168	1	60	2	108	77.272915	0.0483	9928		17 k
72.21.81.200	192.168.50.194	5	371	3	263	2	108	31.890031	0.0004	—		17 k
72.21.91.29	192.168.50.194	29	1388	12	3898	17	2134	13.645681	81.9592	380		1864
104.47.35.23	192.168.50.194	3	168	1	60	2	108	77.272965	0.0539	9049		17 k
104.47.58.144	192.168.50.194	3	168	1	60	2	108	77.272925	0.0483	9933		17 k
162.159.129.232	192.168.50.194	702	620 k	441	601 k	261	18 k	57.405453	81.1339	59 k		1864
162.159.130.235	192.168.50.194	6	363	3	188	3	165	1.792504	90.1992	17		14
162.159.135.233	192.168.50.194	182	113 k	102	106 k	80	6670	57.391157	63.7254	13 k		837
162.159.135.234	192.168.50.194	143	32 k	73	24 k	70	7781	0.464051	157.4183	1234		395
162.159.137.232	192.168.50.194	140	52 k	78	38 k	62	13 k	35.730245	105.9971	2949		1025
187.150.116.193	192.168.50.194	1	590	1	590	0	0	60.603404	0.0000	—		57 k
189.247.166.98	192.168.50.194	4	253	2	145	2	108	77.272972	0.0150	77 k		108
192.168.1.255	192.168.50.194	32	2112	0	0	32	2112	1.698889	156.1087	0		2057
192.168.50.1	239.255.255.250	66	30 k	66	30 k	0	0	8.830423	120.3548	2057		0

☐ Resolución de nombre ☐ Limitar filtro de visualización ☐ Hora de inicio absoluta

Conversion Types: Copiar Follow Stream Graph Close Help

00000180c200000004d4c4b8b41800264242.....&BB

Ethernet: <live capture in progress>Paquetes: 1877 - Mostrado: 1877 (100.0%)Perfil: Def

Capturing from Ethernet

ArchivoEdiciónVisualizaciónIrCapturaAnalizarEstadísticasTelefoníaWirelessHerramientasAyuda

Aplicar un filtro de visualización: <Ctrl>F

Wireshark - Conversations - Ethernet

Ethernet - 11	IPv4 - 43	IPv6 - 3	TCP - 61	UDP - 16	Bytes A - B	Packets A - B	Bytes B - A	Packets B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A - B	Bytes A - B	Packets B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A
192.168.50.194	2106	192.159.135.234	443	178	35 k	87	8750	91	27 k	0.464051	184.8756	378
192.168.50.194	21511	192.168.1.255	1688	1	66	1	66	0	0	1.698889	0.0000	—
192.168.50.194	21965	52.21.36.185	443	7	421	4	216	3	205	3.086439	38.2075	45
192.168.50.194	21370	3.208.123.62	443	36	10 k	24	6060	12	4260	4.076755	170.3988	284
192.168.50.194	21511	192.168.1.255	1688	5	330	5	330	0	0	3.391020	15.0006	175
192.168.50.194	21501	23.47.218.217	80	3	168	2	108	1	60	9.012893	0.0427	20 k
192.168.50.194	21500	23.217.64.41	80	3	168	2	108	1	60	9.013014	0.0352	24 k
192.168.50.194	21423	72.21.91.29	80	3	168	2	108	1	60	11.362567	0.0432	19 k
192.168.50.194	21212	52.154.245.177	443	5	353	2	108	3	245	11.368047	0.0002	—
192.168.50.194	21262	72.21.81.200	443	5	371	2	108	3	263	31.890031	0.0004	—
192.168.50.194	21562	52.109.12.20	443	16	8234	8	1558	8	6676	31.638488	122.4074	101
192.168.50.194	21468	52.113.194.132	443	1	60	0	0	1	60	34.621415	0.0000	—
192.168.50.194	21239	162.159.137.232	443	8	484	4	220	4	264	35.730245	135.2628	13
192.168.50.194	21264	162.159.137.232	443	134	52 k	59	13 k	75	38 k	37.405840	103.9433	1029
192.168.50.194	21388	23.212.97.12	80	3	168	2	108	1	60	41.241508	0.0432	20 k
192.168.50.194	21387	23.212.97.12	80	3	168	2	108	1	60	41.241668	0.0430	20 k
192.168.50.194	21389	34.196.158.58	443	4	253	2	108	2	145	41.242050	0.0513	16 k
192.168.50.194	21362	34.233.62.27	443	4	253	2	108	2	145	41.242751	0.0517	16 k
192.168.50.194	21363	72.21.91.29	80	3	168	2	108	1	60	41.436881	0.0438	19 k
192.168.50.194	21278	162.159.130.235	443	8	484	4	220	4	264	41.783526	135.2644	13
192.168.50.194	21398	34.196.158.58	443	4	253	2	108	2	145	43.665701	0.0522	16 k
192.168.50.194	21371	34.233.62.27	443	4	253	2	108	2	145	43.665797	0.0520	16 k
192.168.50.194	21588	162.159.135.233	443	184	113 k	81	6725	103	186 k	57.391157	108.8011	454
192.168.50.194	21589	162.159.135.233	443	704	620 k	262	18 k	442	601 k	37.405840	103.9433	1029
192.168.50.194	21375	13.107.21.200	443	1	60	0	0	1	60	58.092210	0.0000	—
192.168.50.194	21600	192.168.1.255	1688	5	330	5	330	0	0	67.421936	15.0027	175
192.168.50.194	21399	40.90.137.120	443	1	60	0	0	1	60	73.272961	0.0000	—
192.168.50.194	21402	52.114.132.73	443	3	168	2	108	1	60	77.264030	0.0533	16 k
192.168.50.194	21479	104.47.58.144	443	3	168	2	108	1	60	77.272925	0.0483	17 k
192.168.50.194	21488	104.47.35.22	443	3	168	2	108	1	60	77.272965	0.0530	16 k
192.168.50.194	21458	52.167.250.154	443	3	168	2	108	1	60	77.272915	0.0483	17 k
192.168.50.194	21444	52.109.2.16	443	3	168	2	108	1	60	77.272942	0.0883	9781
192.168.50.194	21450	189.247.166.98	443	4	253	2	108	2	145	77.272972	0.0150	57 k
192.168.50.194	21487	52.109.2.52	443	3	168	2	108	1	60	77.273019	0.0875	9874
192.168.50.194	21466	52.109.2.52	443	3	168	2	108	1	60	77.273029	0.0873	9896
192.168.50.194	21470	52.109.2.52	443	3	168	2	108	1	60	77.273060	0.0871	9925
192.168.50.194	21468	52.109.2.52	443	3	168	2	108	1	60	77.273076	0.0875	9878

☐ Resolución de nombre☐ Limitar filtro de visualización☐ Hora de inicio absoluta

Conversion Types: CopiarFollow StreamGraphCloseHelp

00000180c200000004d4c4b8b41800264242.....&BB

Ethernet: <live capture in progress>Paquetes: 1877 - Mostrado: 1877 (100.0%)Perfil: Def

Capturing from Ethernet

ArchivoEdiciónVisualizaciónIrCapturaAnalizarEstadísticasTelefoníaWirelessHerramientasAyuda

Aplicar un filtro de visualización: <Ctrl>F

Wireshark - Conversations - Ethernet

Ethernet - 11	IPv4 - 43	IPv6 - 3	TCP - 61	UDP - 16	Bytes A - B	Packets A - B	Bytes B - A	Packets B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A - B	Bytes A - B	Packets B - A	Rel Start	Duration	Bytes/s A - B	Bytes/s B - A
192.168.50.194	2106	192.159.135.234	443	178	35 k	87	8750	91	27 k	0.464051	184.8756	378
192.168.50.194	21511	192.168.1.255	1688	1	66	1	66	0	0	1.698889	0.0000	—
192.168.50.194	21965	52.21.36.185	443	7	421	4	216	3	205	3.086439	38.2075	45
192.168.50.194	21370	3.208.123.62	443	36	10 k	24	6060	12	4260	4.076755	170.3988	284
192.168.50.194	21511	192.168.1.255	1688	5	330	5	330	0	0	3.391020	15.0006	175
192.168.50.194	21501	23.47.218.217	80	3	168	2	108	1	60	9.012893	0.0427	20 k
192.168.50.194	21500	23.217.64.41	80	3	168	2	108	1	60	9.013014	0.0352	24 k
192.168.50.194	21423	72.21.91.29	80	3	168	2	108	1	60	11.362567	0.0432	19 k
192.168.50.194	21212	52.154.245.177	443	5	353	2	108	3	245	11.368047	0.0002	—
192.168.50.194	21262	72.21.81.200	443	5	371	2	108	3	263	31.890031	0.0004	—
192.168.50.194	21562	52.109.12.20	443	16	8234	8	1558	8	6676	31.638488	122.4074	101
192.168.50.194	21468	52.113.194.132	443	1	60	0	0	1	60	34.621415	0.0000	—
192.168.50.194	21239	162.159.137.232	443	8	484	4	220	4	264	35.730245	135.2628	13
192.168.50.194	21264	162.159.137.232	443	134	52 k	59	13 k	75	38 k	37.405840	103.9433	1029
192.168.50.194	21388	23.212.97.12	80	3	168	2	108	1	60	41.241508	0.0432	20 k
192.168.50.194	21387	23.212.97.12	80	3	168	2	108	1	60	41.241668	0.0430	20 k
192.168.50.194	21389	34.196.158.58	443	4	253	2	108	2	145	41.242050	0.0513	16 k
192.168.50.194	21362	34.233.62.27	443	4	253	2	108	2	145	41.242751	0.0517	16 k
192.168.50.194	21363	72.21.91.29	80	3	168	2	108	1	60	41.436881	0.0438	19 k
192.168.50.194	21278	162.159.130.235	443	8	484	4	220	4	264	41.783526	135.2644	13
192.168.50.194	21398	34.196.158.58	443	4	253	2	108	2	145	43.665701	0.0522	16 k
192.168.50.194	21371	34.233.62.27	443	4	253	2	108	2	145	43.665797	0.0520	16 k
192.168.50.194	21588	162.159.135.233	443	184	113 k	81	6725	103	186 k	57.391157	108.8011	454
192.168.50.194	21589	162.159.135.233	443	704	620 k	262	18 k	442	601 k	37.405840	103.9433	1029
192.168.50.194	21375	13.107.21.200	443	1	60	0	0	1	60	58.092210	0.0000	—
192.168.50.194	21600	192.168.1.255	1688	5	330	5	330	0	0	67.421936	15.0027	175
192.168.50.194	21399	40.90.137.120	443	1	60	0	0	1	60	73.272961	0.0000	—
192.168.50.194	21402	52.114.132.73	443	3	168	2	108	1	60	77.264030	0.0533	16 k
192.168.50.194	21479	104.47.58.144	443	3	168	2	108	1	60	77.272925	0.0483	17 k
192.168.50.194	21488	104.47.35.22	443	3	168	2	108	1	60	77.272965	0.0530	16 k
192.168.50.194	21458	52.167.250.154	443	3	168	2	108	1	60	77.272915	0.0483	17 k
192.168.50.194	21444	52.109.2.16	443	3	168	2	108	1	60	77.272942	0.0883	9781
192.168.50.194	21450	189.247.166.98	443	4	253	2	108	2	145	77.272972	0.0150	57 k
192.168.50.194	21487	52.109.2.52	443	3	168	2	108	1	60	77.273019	0.0875	9874
192.168.50.194	21466	52.109.2.52	443	3	168	2	108	1	60	77.273029	0.0873	9896
192.168.50.194	21470	52.109.2.52	443	3	168	2	108	1	60	77.273060	0.0871	9925
192.168.50.194	21468	52.109.2.52	443	3	168	2	108	1	60	77.273076	0.0875	9878

☐ Resolución de nombre☐ Limitar filtro de visualización☐ Hora de inicio absoluta

Conversion Types: CopiarFollow StreamGraphCloseHelp

Capturing from Ethernet

Archivo Edición Visualización Captura Análisis Estadísticas Telefonía Wireless Herramientas Ayuda

Aplicar un filtro de visualización: «C#1»

Wireshark - Conversations - Ethernet

Ethernet #	11	IP v4 #	43	IP v6 #	3	TCP #	62	UDP #	16				
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B	Bits/s B → A
192.168.50.1	38368	239.255.255.250	1900	88	41 k	88	41 k	0	0	8.830423	180.4153	1830	0
192.168.50.46	5353	224.0.0.251	5353	3	283	3	283	0	0	0.142071044	3.2363	699	0
192.168.50.194	5353	224.0.0.251	5353	150	13 k	150	13 k	0	0	0.15396024	195.9378	557	0
192.168.50.194	137	192.168.50.255	137	33	3036	33	3036	0	0	0.5078012	182.4344	133	0
192.168.50.194	49220	224.0.0.252	5355	2	128	2	128	0	0	0.56755860	0.4099	2498	0
192.168.50.194	62841	192.168.50.1	53	2	236	1	78	1	158	57.372336	0.0168	37 k	75 k
192.168.50.194	61752	192.168.50.1	53	2	240	1	80	1	160	57.388171	0.0168	38 k	76 k
192.168.50.194	62396	192.168.50.1	53	2	254	1	87	1	167	75.875296	0.0171	40 k	78 k
192.168.50.194	50755	192.168.50.1	53	2	254	1	87	1	167	75.875337	0.0177	39 k	75 k
192.168.50.194	56139	192.168.50.1	53	2	230	1	84	1	146	80.297735	0.0168	40 k	69 k
192.168.50.194	52889	192.168.50.1	53	2	280	1	88	1	192	91.192816	0.0170	41 k	90 k
192.168.50.194	51588	224.0.0.252	5355	2	128	2	128	0	0	0.106183969	0.4108	2492	0
fe80::a4790a:3691:5629	5353	#02::fb	5353	3	343	3	343	0	0	0.142071237	3.2363	847	0
fe80::999e:188c:f4c3:76d0	5353	#02::fb	5353	8	720	8	720	0	0	0.56754869	0.534001	107	0
fe80::999e:188c:f4c3:76d0	49220	#02::1:3	5355	2	168	2	168	0	0	0.56755701	0.4100	3278	0
fe80::999e:188c:f4c3:76d0	5358	#02::1:3	5355	2	168	2	168	0	0	0.106183676	0.4109	3271	0

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