

# OUTSTANDING-1

## Using wireshark to analyze the traffic

Source IP	Destination IP	Network Protocol/Port	Traffic Snapshot																																																																													
192.168.0.107 (Host System)	52.154.162.165 (Microsoft Corporation)	TCP 61919 -> 443 SYN Packet	<table><tr><th>No.</th><th>Time</th><th>Source</th><th>Destination</th><th>Protocol</th><th>Length</th><th>Info</th></tr><tr><td>43</td><td>1.217162</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TCP</td><td>1514</td><td>443 → 61917 [ACK] Seq=8761 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]</td></tr><tr><td>44</td><td>1.217225</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TCP</td><td>1514</td><td>443 → 61917 [ACK] Seq=18221 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]</td></tr><tr><td>45</td><td>1.217252</td><td>192.168.0.187</td><td>20.190.175.0</td><td>TCP</td><td>54</td><td>61917 → 443 [ACK] Seq=6952 Ack=11681 Win=258 Len=0</td></tr><tr><td>46</td><td>1.217982</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TCP</td><td>1514</td><td>443 → 61917 [ACK] Seq=11681 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]</td></tr><tr><td>47</td><td>1.217948</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TCP</td><td>1514</td><td>443 → 61917 [ACK] Seq=13141 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]</td></tr><tr><td>48</td><td>1.217962</td><td>192.168.0.187</td><td>20.190.175.0</td><td>TCP</td><td>54</td><td>61917 → 443 [ACK] Seq=6952 Ack=14601 Win=258 Len=0</td></tr><tr><td>49</td><td>1.218074</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TCP</td><td>1514</td><td>443 → 61917 [ACK] Seq=14681 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]</td></tr><tr><td>50</td><td>1.218074</td><td>20.190.175.0</td><td>192.168.0.187</td><td>TLSv1.2</td><td>537</td><td>Application Data, Application Data</td></tr><tr><td>51</td><td>1.221213</td><td>192.168.0.187</td><td>20.190.175.0</td><td>TCP</td><td>54</td><td>61917 → 443 [ACK] Seq=6952 Ack=15544 Win=258 Len=0</td></tr><tr><td>52</td><td>1.308656</td><td>192.168.0.187</td><td>52.154.162.165</td><td>TCP</td><td>66</td><td>61919 → 443 [SYN] Seq=0 Win=0 Len=0 MSS=1460 WS=256 SACK_PERM=1</td></tr></table> <p>Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{6CF240C4-4568-4865-B44D-BF224D3F8C5B}, Id 0 Ethernet II, Src: LiteonTe_9e:2d:99 (3c:95:09:9e:2d:99), Dst: Tp-LinkT_ad:fe:d2 (28:ee:52:ad:fe:d2) Internet Protocol Version 4, Src: 192.168.0.187, Dst: 40.64.90.82 Transmission Control Protocol, Src Port: 61918, Dst Port: 443, Seq: 0, Len: 0</p> <p>28 ee 52 ad fe d2 3c 95 09 9e 2d 99 08 00 45 00 ( R .....E 00 34 07 0e 40 00 00 06 b0 10 c0 a8 00 6b 20 40 4 .....k( 5a 52 f1 de 01 bb 23 33 6a 33 00 00 00 00 00 02 ZR...# j3..... fa f0 af 79 00 00 02 04 05 b4 01 03 03 08 01 01 ..... 04 02 .....</p>	No.	Time	Source	Destination	Protocol	Length	Info	43	1.217162	20.190.175.0	192.168.0.187	TCP	1514	443 → 61917 [ACK] Seq=8761 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]	44	1.217225	20.190.175.0	192.168.0.187	TCP	1514	443 → 61917 [ACK] Seq=18221 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]	45	1.217252	192.168.0.187	20.190.175.0	TCP	54	61917 → 443 [ACK] Seq=6952 Ack=11681 Win=258 Len=0	46	1.217982	20.190.175.0	192.168.0.187	TCP	1514	443 → 61917 [ACK] Seq=11681 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]	47	1.217948	20.190.175.0	192.168.0.187	TCP	1514	443 → 61917 [ACK] Seq=13141 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]	48	1.217962	192.168.0.187	20.190.175.0	TCP	54	61917 → 443 [ACK] Seq=6952 Ack=14601 Win=258 Len=0	49	1.218074	20.190.175.0	192.168.0.187	TCP	1514	443 → 61917 [ACK] Seq=14681 Ack=6952 Win=2053 Len=1468 [TCP segment of a ...]	50	1.218074	20.190.175.0	192.168.0.187	TLSv1.2	537	Application Data, Application Data	51	1.221213	192.168.0.187	20.190.175.0	TCP	54	61917 → 443 [ACK] Seq=6952 Ack=15544 Win=258 Len=0	52	1.308656	192.168.0.187	52.154.162.165	TCP	66	61919 → 443 [SYN] Seq=0 Win=0 Len=0 MSS=1460 WS=256 SACK_PERM=1
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52.154.162.165 (Microsoft Corporation)	192.168.0.107 (Host System)	TCP 443 -> 61919 RST & ACK Packet	<table><tr><th>Time</th><th>Source</th><th>Destination</th><th>Protocol</th><th>Length</th><th>Info</th></tr><tr><td>537</td><td>4.989980</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>61925 → 443 [ACK] Seq=6470 Ack=8634 Win=66048 Len=0</td></tr><tr><td>538</td><td>4.991030</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>61925 → 443 [FIN, ACK] Seq=6470 Ack=8634 Win=66048 Len=0</td></tr><tr><td>539</td><td>5.129540</td><td>40.65.111.94</td><td>TCP</td><td>54</td><td>443 → 61926 [FIN, ACK] Seq=6071 Ack=2987 Win=525568 Len=0</td></tr><tr><td>540</td><td>5.129611</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>61926 → 443 [ACK] Seq=2987 Ack=6072 Win=65792 Len=0</td></tr><tr><td>541</td><td>6.218811</td><td>40.91.76.181</td><td>TCP</td><td>54</td><td>443 → 61925 [FIN, ACK] Seq=8634 Ack=6073 Win=525568 Len=0</td></tr><tr><td>542</td><td>5.218654</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>61925 → 443 [ACK] Seq=6471 Ack=8635 Win=66048 Len=0</td></tr><tr><td>543</td><td>5.775036</td><td>192.168.0.185</td><td>NDMG</td><td>449</td><td>Standard query response 0x0000 TXT, cache flush PTR_androidt...</td></tr><tr><td>544</td><td>6.292067</td><td>40.64.90.82</td><td>TCP</td><td>54</td><td>443 → 61918 [RST, ACK] Seq=7535 Ack=4268 Win=0 Len=0</td></tr><tr><td>545</td><td>7.775789</td><td>192.168.0.185</td><td>NDMG</td><td>449</td><td>Standard query response 0x0000 TXT, cache flush PTR_androidt...</td></tr><tr><td>546</td><td>8.340650</td><td>52.154.162.165</td><td>TCP</td><td>54</td><td>443 → 61919 [RST, ACK] Seq=13479 Ack=2407 Win=0 Len=0</td></tr></table> <p>Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{6CF240C4-4568-4865-B44D-BF224D3F8C5B}, Id 0 Ethernet II, Src: LiteonTe_9e:2d:99 (3c:95:09:9e:2d:99), Dst: Tp-LinkT_ad:fe:d2 (28:ee:52:ad:fe:d2) Internet Protocol Version 4, Src: 192.168.0.187, Dst: 40.64.90.82 Transmission Control Protocol, Src Port: 61918, Dst Port: 443, Seq: 0, Len: 0</p> <p>28 ee 52 ad fe d2 3c 95 09 9e 2d 99 08 00 45 00 ( R .....E 00 34 07 0e 40 00 00 06 b0 10 c0 a8 00 6b 20 40 4 .....k( 5a 52 f1 de 01 bb 23 33 6a 33 00 00 00 00 00 02 ZR...# j3..... fa f0 af 79 00 00 02 04 05 b4 01 03 03 08 01 01 ..... 04 02 .....</p>	Time	Source	Destination	Protocol	Length	Info	537	4.989980	192.168.0.187	TCP	54	61925 → 443 [ACK] Seq=6470 Ack=8634 Win=66048 Len=0	538	4.991030	192.168.0.187	TCP	54	61925 → 443 [FIN, ACK] Seq=6470 Ack=8634 Win=66048 Len=0	539	5.129540	40.65.111.94	TCP	54	443 → 61926 [FIN, ACK] Seq=6071 Ack=2987 Win=525568 Len=0	540	5.129611	192.168.0.187	TCP	54	61926 → 443 [ACK] Seq=2987 Ack=6072 Win=65792 Len=0	541	6.218811	40.91.76.181	TCP	54	443 → 61925 [FIN, ACK] Seq=8634 Ack=6073 Win=525568 Len=0	542	5.218654	192.168.0.187	TCP	54	61925 → 443 [ACK] Seq=6471 Ack=8635 Win=66048 Len=0	543	5.775036	192.168.0.185	NDMG	449	Standard query response 0x0000 TXT, cache flush PTR_androidt...	544	6.292067	40.64.90.82	TCP	54	443 → 61918 [RST, ACK] Seq=7535 Ack=4268 Win=0 Len=0	545	7.775789	192.168.0.185	NDMG	449	Standard query response 0x0000 TXT, cache flush PTR_androidt...	546	8.340650	52.154.162.165	TCP	54	443 → 61919 [RST, ACK] Seq=13479 Ack=2407 Win=0 Len=0											
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557	16.824368	192.168.0.187	TCP	255	[TCP Retransmission] 57007 → 443 [PSH, ACK] Seq=1 Ack=338 Win=254 Len=201																																																																											
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13.107.246.58 (Microsoft Corporation)	192.168.0.107 (Host System)	TCP 443 -> 61907 RST & ACK Packet	<table><tr><th>Time</th><th>Source</th><th>Destination</th><th>Protocol</th><th>Length</th><th>Info</th></tr><tr><td>622</td><td>63.425730</td><td>40.100.136.130</td><td>TCP</td><td>54</td><td>443 → 61906 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0</td></tr><tr><td>623</td><td>63.729311</td><td>52.114.6.159</td><td>TLSv1.2</td><td>391</td><td>Application Data</td></tr><tr><td>624</td><td>63.782485</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>57007 → 443 [ACK] Seq=202 Ack=675 Win=253 Len=0</td></tr><tr><td>625</td><td>64.343693</td><td>117.18.237.29</td><td>TCP</td><td>60</td><td>[TCP Keep-Alive] 80 → 61924 [ACK] Seq=799 Ack=237 Win=67072 Len=0</td></tr><tr><td>626</td><td>64.343730</td><td>192.168.0.187</td><td>TCP</td><td>54</td><td>[TCP Keep-Alive ACK] 61924 → 80 [ACK] Seq=237 Ack=800 Win=64768 Len=0</td></tr><tr><td>627</td><td>64.454743</td><td>192.168.0.187</td><td>TLSv1.2</td><td>255</td><td>Application Data</td></tr><tr><td>628</td><td>64.578466</td><td>52.114.6.159</td><td>TCP</td><td>60</td><td>443 → 57007 [ACK] Seq=675 Ack=403 Win=2050 Len=0</td></tr><tr><td>629</td><td>64.980981</td><td>13.107.246.58</td><td>TCP</td><td>54</td><td>443 → 61907 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0</td></tr><tr><td>630</td><td>65.887325</td><td>204.79.197.222</td><td>TCP</td><td>54</td><td>443 → 61918 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0</td></tr><tr><td>631</td><td>67.932080</td><td>13.107.246.254</td><td>TCP</td><td>54</td><td>443 → 61909 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0</td></tr></table> <p>Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{6CF240C4-4568-4865-B44D-BF224D3F8C5B}, Id 0 Ethernet II, Src: LiteonTe_9e:2d:99 (3c:95:09:9e:2d:99), Dst: Tp-LinkT_ad:fe:d2 (28:ee:52:ad:fe:d2) Internet Protocol Version 4, Src: 192.168.0.187, Dst: 40.64.90.82 Transmission Control Protocol, Src Port: 61918, Dst Port: 443, Seq: 0, Len: 0</p> <p>28 ee 52 ad fe d2 3c 95 09 9e 2d 99 08 00 45 00 ( R .....E 00 34 07 0e 40 00 00 06 b0 10 c0 a8 00 6b 20 40 4 .....k( 5a 52 f1 de 01 bb 23 33 6a 33 00 00 00 00 00 02 ZR...# j3..... fa f0 af 79 00 00 02 04 05 b4 01 03 03 08 01 01 ..... 04 02 .....</p>	Time	Source	Destination	Protocol	Length	Info	622	63.425730	40.100.136.130	TCP	54	443 → 61906 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0	623	63.729311	52.114.6.159	TLSv1.2	391	Application Data	624	63.782485	192.168.0.187	TCP	54	57007 → 443 [ACK] Seq=202 Ack=675 Win=253 Len=0	625	64.343693	117.18.237.29	TCP	60	[TCP Keep-Alive] 80 → 61924 [ACK] Seq=799 Ack=237 Win=67072 Len=0	626	64.343730	192.168.0.187	TCP	54	[TCP Keep-Alive ACK] 61924 → 80 [ACK] Seq=237 Ack=800 Win=64768 Len=0	627	64.454743	192.168.0.187	TLSv1.2	255	Application Data	628	64.578466	52.114.6.159	TCP	60	443 → 57007 [ACK] Seq=675 Ack=403 Win=2050 Len=0	629	64.980981	13.107.246.58	TCP	54	443 → 61907 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0	630	65.887325	204.79.197.222	TCP	54	443 → 61918 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0	631	67.932080	13.107.246.254	TCP	54	443 → 61909 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0											
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631	67.932080	13.107.246.254	TCP	54	443 → 61909 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0																																																																											



In all of the snapshots above the computer's traffic is analyzed. Tabulation of the data is done according to the Source and destination IP addresses, its ports and packets for the transmission of the data. The data is extracted when all the applications are closed except for the background application.

There are various applications running in the background of the system. Some of those applications are from Microsoft Corporation, Tala Communication and Verizon Business.