

EX NO: 5

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## PACKET ANALYZER TOOL

### AIM:

To Analyse the network packet transmission using packet analyzer tool (Wireshark).

### PROCEDURE:

1. Capture the packets (TCP / UDP / HTTP)
2. Filter those packets
3. Inspect those packets

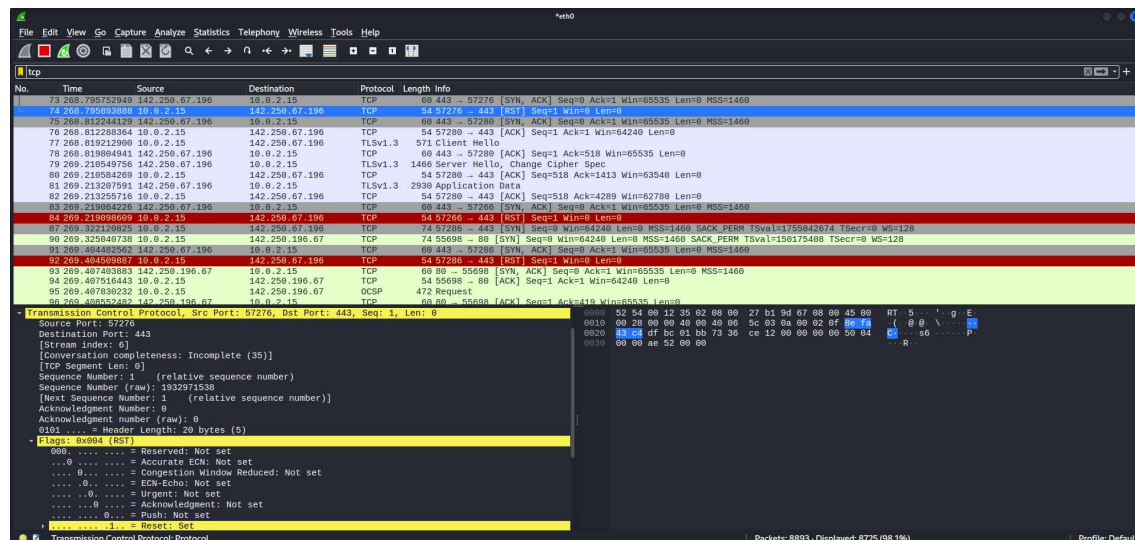
Step 1: Install and open WireShark .

Step 2: To capture TCP / UDP /HTTP Packet.

Step 3: to Filter TCP / UDP /HTTP Packet.

Step4: to inspect the TCP / UDP /HTTP Packet.

### OUTPUT

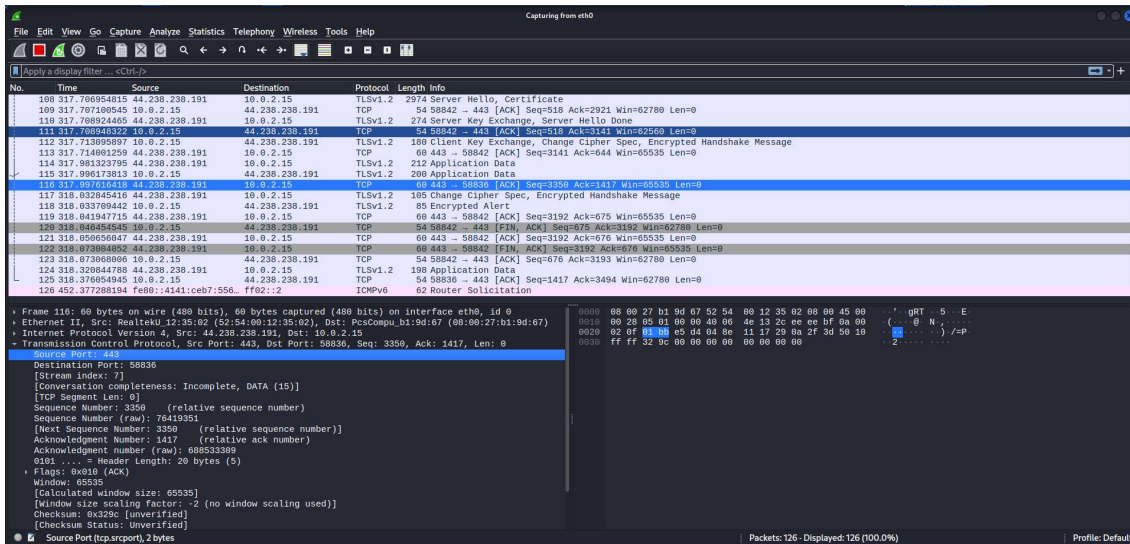
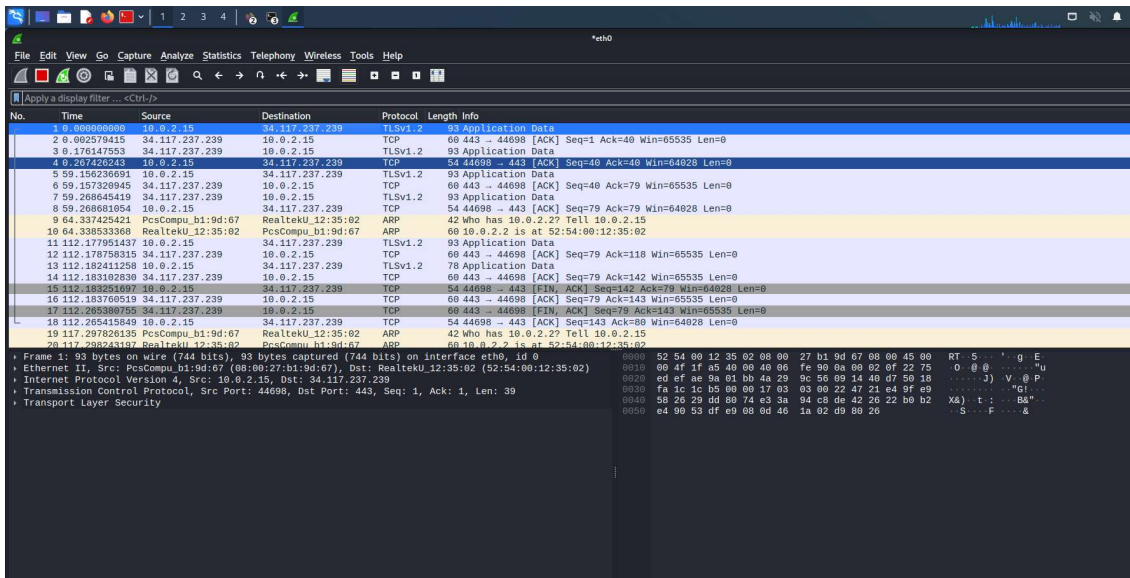


Wireshark packet capture showing HTTP traffic. The selected packet is a POST request to /gtsic3 HTTP/1.1 from 10.0.2.15 to 142.250.196.67. The packet details show the request structure, including headers like Host, User-Agent, Accept, and Content-Type. The raw data section shows the hexadecimal and ASCII representation of the packet bytes.

No.	Time	Source	Destination	Protocol	Length	Info
109	2.599	10.0.2.15	142.250.196.67	OCSP	839	Request
110	2.600	142.250.196.67	10.0.2.15	OCSP	472	Response
111	2.601	10.0.2.15	142.250.196.67	OCSP	472	Request
112	2.602	142.250.196.67	10.0.2.15	OCSP	839	Response
113	2.603	10.0.2.15	142.250.196.67	OCSP	472	Request
114	2.604	142.250.196.67	10.0.2.15	OCSP	839	Response
115	2.605	10.0.2.15	142.250.196.67	OCSP	472	Request
116	2.606	142.250.196.67	10.0.2.15	OCSP	839	Response
117	2.607	10.0.2.15	142.250.196.67	OCSP	472	Request
118	2.608	142.250.196.67	10.0.2.15	OCSP	839	Response
119	2.609	10.0.2.15	142.250.196.67	OCSP	472	Request
120	2.610	142.250.196.67	10.0.2.15	OCSP	839	Response
121	2.611	10.0.2.15	142.250.196.67	OCSP	472	Request
122	2.612	142.250.196.67	10.0.2.15	OCSP	839	Response
123	2.613	10.0.2.15	142.250.196.67	OCSP	472	Request
124	2.614	142.250.196.67	10.0.2.15	OCSP	839	Response
125	2.615	10.0.2.15	142.250.196.67	OCSP	472	Request
126	2.616	142.250.196.67	10.0.2.15	OCSP	839	Response
127	2.617	10.0.2.15	142.250.196.67	OCSP	472	Request
128	2.618	142.250.196.67	10.0.2.15	OCSP	839	Response
129	2.619	10.0.2.15	142.250.196.67	OCSP	472	Request
130	2.620	142.250.196.67	10.0.2.15	OCSP	839	Response
131	2.621	10.0.2.15	142.250.196.67	OCSP	472	Request
132	2.622	142.250.196.67	10.0.2.15	OCSP	839	Response
133	2.623	10.0.2.15	142.250.196.67	OCSP	472	Request
134	2.624	142.250.196.67	10.0.2.15	OCSP	839	Response
135	2.625	10.0.2.15	142.250.196.67	OCSP	472	Request
136	2.626	142.250.196.67	10.0.2.15	OCSP	839	Response
137	2.627	10.0.2.15	142.250.196.67	OCSP	472	Request
138	2.628	142.250.196.67	10.0.2.15	OCSP	839	Response
139	2.629	10.0.2.15	142.250.196.67	OCSP	472	Request
140	2.630	142.250.196.67	10.0.2.15	OCSP	839	Response
141	2.631	10.0.2.15	142.250.196.67	OCSP	472	Request
142	2.632	142.250.196.67	10.0.2.15	OCSP	839	Response
143	2.633	10.0.2.15	142.250.196.67	OCSP	472	Request
144	2.634	142.250.196.67	10.0.2.15	OCSP	839	Response
145	2.635	10.0.2.15	142.250.196.67	OCSP	472	Request
146	2.636	142.250.196.67	10.0.2.15	OCSP	839	Response
147	2.637	10.0.2.15	142.250.196.67	OCSP	472	Request
148	2.638	142.250.196.67	10.0.2.15	OCSP	839	Response
149	2.639	10.0.2.15	142.250.196.67	OCSP	472	Request
150	2.640	142.250.196.67	10.0.2.15	OCSP	839	Response
151	2.641	10.0.2.15	142.250.196.67	OCSP	472	Request
152	2.642	142.250.196.67	10.0.2.15	OCSP	839	Response
153	2.643	10.0.2.15	142.250.196.67	OCSP	472	Request
154	2.644	142.250.196.67	10.0.2.15	OCSP	839	Response
155	2.645	10.0.2.15	142.250.196.67	OCSP	472	Request
156	2.646	142.250.196.67	10.0.2.15	OCSP	839	Response
157	2.647	10.0.2.15	142.250.196.67	OCSP	472	Request
158	2.648	142.250.196.67	10.0.2.15	OCSP	839	Response
159	2.649	10.0.2.15	142.250.196.67	OCSP	472	Request
160	2.650	142.250.196.67	10.0.2.15	OCSP	839	Response
161	2.651	10.0.2.15	142.250.196.67	OCSP	472	Request
162	2.652	142.250.196.67	10.0.2.15	OCSP	839	Response
163	2.653	10.0.2.15	142.250.196.67	OCSP	472	Request
164	2.654	142.250.196.67	10.0.2.15	OCSP	839	Response
165	2.655	10.0.2.15	142.250.196.67	OCSP	472	Request
166	2.656	142.250.196.67	10.0.2.15	OCSP	839	Response
167	2.657	10.0.2.15	142.250.196.67	OCSP	472	Request
168	2.658	142.250.196.67	10.0.2.15	OCSP	839	Response
169	2.659	10.0.2.15	142.250.196.67	OCSP	472	Request
170	2.660	142.250.196.67	10.0.2.15	OCSP	839	Response
171	2.661	10.0.2.15	142.250.196.67	OCSP	472	Request
172	2.662	142.250.196.67	10.0.2.15	OCSP	839	Response
173	2.663	10.0.2.15	142.250.196.67	OCSP	472	Request
174	2.664	142.250.196.67	10.0.2.15	OCSP	839	Response
175	2.665	10.0.2.15	142.250.196.67	OCSP	472	Request
176	2.666	142.250.196.67	10.0.2.15	OCSP	839	Response
177	2.667	10.0.2.15	142.250.196.67	OCSP	472	Request
178	2.668	142.250.196.67	10.0.2.15	OCSP	839	Response
179	2.669	10.0.2.15	142.250.196.67	OCSP	472	Request
180	2.670	142.250.196.67	10.0.2.15	OCSP	839	Response
181	2.671	10.0.2.15	142.250.196.67	OCSP	472	Request
182	2.672	142.250.196.67	10.0.2.15	OCSP	839	Response
183	2.673	10.0.2.15	142.250.196.67	OCSP	472	Request
184	2.674	142.250.196.67	10.0.2.15	OCSP	839	Response
185	2.675	10.0.2.15	142.250.196.67	OCSP	472	Request
186	2.676	142.250.196.67	10.0.2.15	OCSP	839	Response
187	2.677	10.0.2.15	142.250.196.67	OCSP	472	Request
188	2.678	142.250.196.67	10.0.2.15	OCSP	839	Response
189	2.679	10.0.2.15	142.250.196.67	OCSP	472	Request
190	2.680	142.250.196.67	10.0.2.15	OCSP	839	Response
191	2.681	10.0.2.15	142.250.196.67	OCSP	472	Request
192	2.682	142.250.196.67	10.0.2.15	OCSP	839	Response
193	2.683	10.0.2.15	142.250.196.67	OCSP	472	Request
194	2.684	142.250.196.67	10.0.2.15	OCSP	839	Response
195	2.685	10.0.2.15	142.250.196.67	OCSP	472	Request
196	2.686	142.250.196.67	10.0.2.15	OCSP	839	Response
197	2.687	10.0.2.15	142.250.196.67	OCSP	472	Request
198	2.688	142.250.196.67	10.0.2.15	OCSP	839	Response
199	2.689	10.0.2.15	142.250.196.67	OCSP	472	Request
200	2.690	142.250.196.67	10.0.2.15	OCSP	839	Response

Wireshark packet capture showing TCP traffic. The selected packet is a SYN packet from 10.0.2.15 to 142.250.196.67. The packet details show the TCP header and options, including the sequence number and window size. The raw data section shows the hexadecimal and ASCII representation of the packet bytes.

No.	Time	Source	Destination	Protocol	Length	Info
2	0.002579415	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [ACK] Seq=1 Ack=40 Win=65535 Len=0
3	0.176147553	34.117.237.239	10.0.2.15	TLV1.2	93	Application Data
4	0.207426243	10.0.2.15	34.117.237.239	TCP	54	44998 → 443 [ACK] Seq=40 Ack=40 Win=64028 Len=0
5	0.156236691	10.0.2.15	34.117.237.239	TLV1.2	93	Application Data
6	0.157329945	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [ACK] Seq=40 Ack=79 Win=65535 Len=0
7	0.158684519	34.117.237.239	10.0.2.15	TLV1.2	93	Application Data
8	0.158681854	10.0.2.15	34.117.237.239	TCP	54	44998 → 443 [ACK] Seq=79 Ack=79 Win=64028 Len=0
11	112.177951437	10.0.2.15	34.117.237.239	TLV1.2	93	Application Data
12	112.177953115	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [ACK] Seq=79 Ack=110 Win=65535 Len=0
13	112.182411258	10.0.2.15	34.117.237.239	TLV1.2	78	Application Data
14	112.183102830	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [ACK] Seq=79 Ack=143 Win=65535 Len=0
15	112.183102830	34.117.237.239	10.0.2.15	TCP	54	44998 → 443 [FIN, ACK] Seq=143 Ack=79 Win=64028 Len=0
16	112.183769519	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [ACK] Seq=79 Ack=143 Win=65535 Len=0
17	112.265415840	34.117.237.239	10.0.2.15	TCP	60	443 → 44998 [FIN, ACK] Seq=79 Ack=143 Win=65535 Len=0
18	112.265415840	10.0.2.15	34.117.237.239	TCP	54	44998 → 443 [ACK] Seq=143 Ack=80 Win=64028 Len=0
23	260.554370845	10.0.2.15	34.120.115.102	TCP	74	43210 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM TSval=3070521042 TSecr=0 WS=128
24	260.703244847	34.120.115.102	10.0.2.15	TCP	60	443 → 43210 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460
25	260.703242241	10.0.2.15	34.120.115.102	TCP	54	43210 → 443 [ACK] Seq=1 Ack=1 Win=64240 Len=0
26	260.703241668	10.0.2.15	34.120.115.102	TLV1.3	724	Client Hello



## Result

Hence the analysing of the network packet transmission using packet analyzer tool (Wireshark) is performed successfully.