

山东大学计算机学院

计算机网络课程实验报告

学号：202400130240	姓名：贾宗翰	班级：计科 24.6																																																																																				
实验题目：Getting Started																																																																																						
实验学时：2h	实验日期：2025.9.2																																																																																					
实验目的：学会抓包、过滤和查看协议报文																																																																																						
硬件环境：联想拯救者																																																																																						
软件环境：wireshark，edge 浏览器																																																																																						
<div>实验步骤与内容：<div>1. 下载 wireshark</div><div>2. 打开 Wireshark，选择 Wi-Fi/Ethernet 接口</div><div>3. 浏览器访问目标网址，开始抓包</div><div>4. 过滤框输入 http，找到 http 和 http 200 ok 报文</div></div> <div><div><div>*以太网</div><div>文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(V) 无线(W) 工具(T) 帮助(H)</div><div><div><div>⏮ ⏪ ⏩ ⏭ 🔍 ↺ ↻ 📄 📑</div><div>🔍</div></div><div>http</div><table><thead><tr><th>No.</th><th>Time</th><th>Source</th><th>Destination</th><th>Protocol</th><th>Length</th><th>Info</th></tr></thead><tbody><tr><td>2989</td><td>16.762720</td><td>101.76.243.171</td><td>112.53.42.220</td><td>HTTP</td><td>796</td><td>POST /mmtls/000073ac HTTP/1.1</td></tr><tr><td>3184</td><td>16.819725</td><td>112.53.42.220</td><td>101.76.243.171</td><td>HTTP</td><td>623</td><td>HTTP/1.1 200 OK</td></tr><tr><td>3241</td><td>19.968828</td><td>101.76.243.171</td><td>120.232.51.242</td><td>HTTP</td><td>821</td><td>POST /mmtls/000073b6 HTTP/1.1</td></tr><tr><td>3245</td><td>20.028066</td><td>120.232.51.242</td><td>101.76.243.171</td><td>HTTP</td><td>401</td><td>HTTP/1.1 200 OK</td></tr></tbody></table></div><div><div>*以太网</div><div>文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(V) 无线(W) 工具(T) 帮助(H)</div><div><div><div>⏮ ⏪ ⏩ ⏭ 🔍 ↺ ↻ 📄 📑</div><div>🔍</div></div><div>http</div><table><thead><tr><th>No.</th><th>Time</th><th>Source</th><th>Destination</th><th>Protocol</th><th>Length</th><th>Info</th></tr></thead><tbody><tr><td>4192</td><td>11.398115</td><td>101.76.243.171</td><td>140.249.149.193</td><td>HTTP</td><td>384</td><td>GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?74d8e1b0603a22f9 HTTP/1.1</td></tr><tr><td>4208</td><td>11.436958</td><td>140.249.149.193</td><td>101.76.243.171</td><td>HTTP</td><td>542</td><td>HTTP/1.1 304 Not Modified</td></tr><tr><td>9336</td><td>34.718256</td><td>101.76.243.171</td><td>128.119.245.12</td><td>HTTP</td><td>659</td><td>GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1</td></tr><tr><td>9360</td><td>34.967188</td><td>128.119.245.12</td><td>101.76.243.171</td><td>HTTP</td><td>492</td><td>HTTP/1.1 200 OK (text/html)</td></tr><tr><td>9428</td><td>35.523897</td><td>101.76.243.171</td><td>128.119.245.12</td><td>HTTP</td><td>520</td><td>GET /favicon.ico HTTP/1.1</td></tr><tr><td>9450</td><td>35.772457</td><td>128.119.245.12</td><td>101.76.243.171</td><td>HTTP</td><td>538</td><td>HTTP/1.1 404 Not Found (text/html)</td></tr></tbody></table></div></div></div><div>结论分析与体会：<div>1. 出现了哪些协议：HTTP、TCP、IP、DNS、ARP</div><div>2. GET → OK 用时：196ms</div><div>3. gaia.cs.umass.edu 的 IP 和本机 IP：192.168.254.245 本机：</div><div>4. 浏览器类型：edge</div><div>5. HTTP 请求的目的端口：80</div><div>6. 打印 GET 和 OK 报文：</div></div></div>			No.	Time	Source	Destination	Protocol	Length	Info	2989	16.762720	101.76.243.171	112.53.42.220	HTTP	796	POST /mmtls/000073ac HTTP/1.1	3184	16.819725	112.53.42.220	101.76.243.171	HTTP	623	HTTP/1.1 200 OK	3241	19.968828	101.76.243.171	120.232.51.242	HTTP	821	POST /mmtls/000073b6 HTTP/1.1	3245	20.028066	120.232.51.242	101.76.243.171	HTTP	401	HTTP/1.1 200 OK	No.	Time	Source	Destination	Protocol	Length	Info	4192	11.398115	101.76.243.171	140.249.149.193	HTTP	384	GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?74d8e1b0603a22f9 HTTP/1.1	4208	11.436958	140.249.149.193	101.76.243.171	HTTP	542	HTTP/1.1 304 Not Modified	9336	34.718256	101.76.243.171	128.119.245.12	HTTP	659	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1	9360	34.967188	128.119.245.12	101.76.243.171	HTTP	492	HTTP/1.1 200 OK (text/html)	9428	35.523897	101.76.243.171	128.119.245.12	HTTP	520	GET /favicon.ico HTTP/1.1	9450	35.772457	128.119.245.12	101.76.243.171	HTTP	538	HTTP/1.1 404 Not Found (text/html)
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