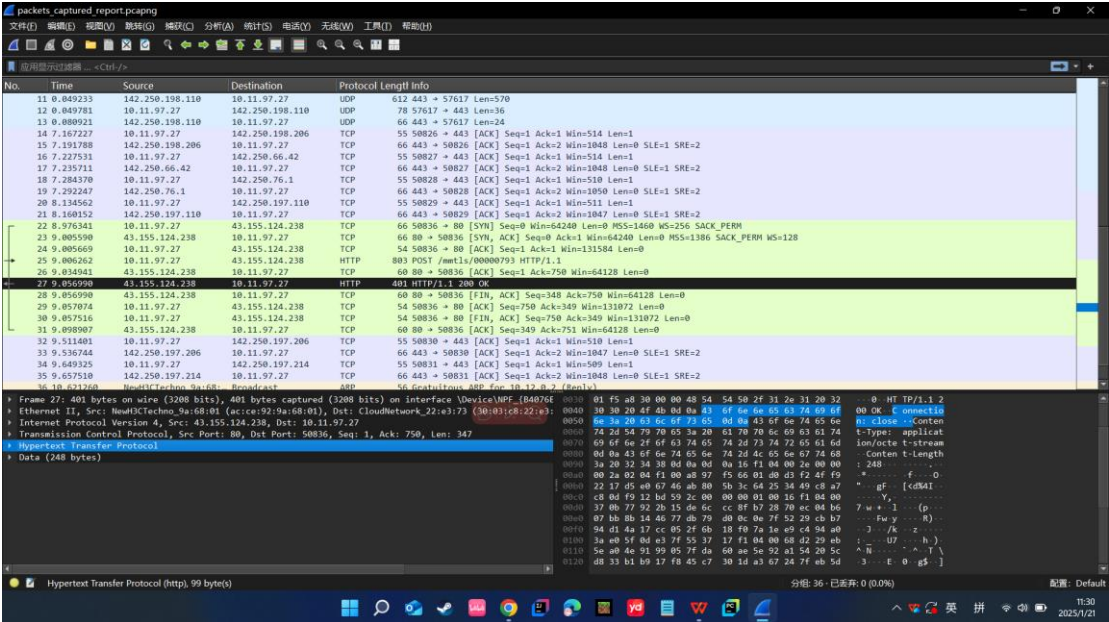


COMP2322 Lab 1 report

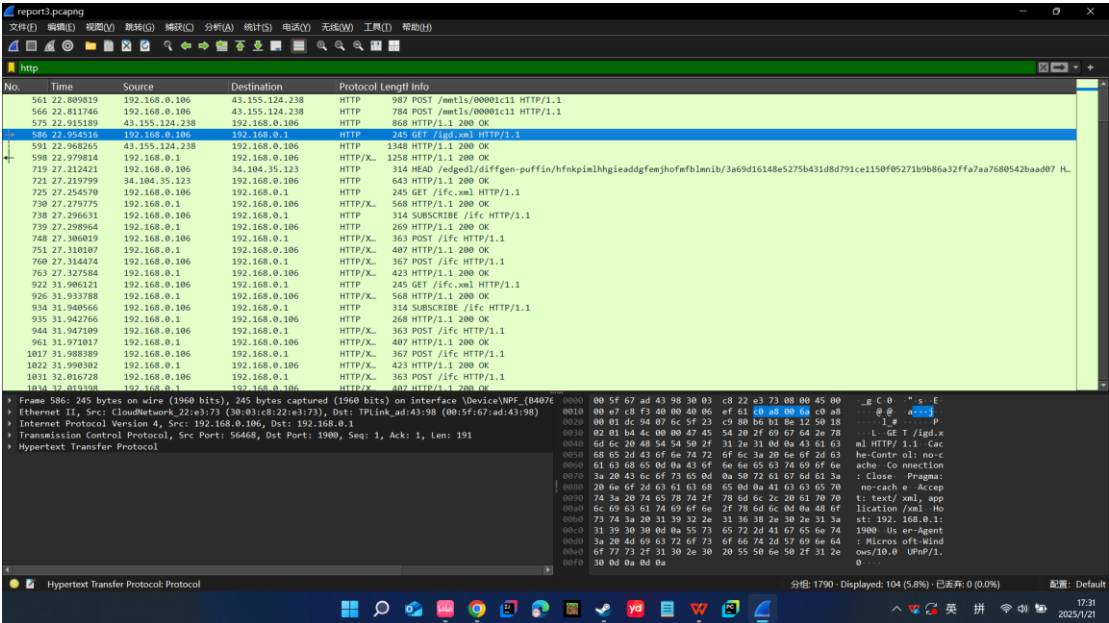
Name: Cao Kaihan StudentID: 23097881D

Question1:



I have found 3 different protocols, respectively are TCP, UCP, HTTP.

Question 2:



We can get the time used by using timestamp subtraction to calculate time used.

No.	Time	Source	Destination	Protocol	Length	Info
561	22.809819	192.168.0.106	43.155.124.238	HTTP	987	POST /mmtls/00001c11 HTTP/1.1
566	22.811746	192.168.0.106	43.155.124.238	HTTP	784	POST /mmtls/00001c11 HTTP/1.1
575	22.915189	43.155.124.238	192.168.0.106	HTTP	868	HTTP/1.1 200 OK
586	22.954516	192.168.0.106	192.168.0.1	HTTP	245	GET /igd.xml HTTP/1.1
591	22.968265	43.155.124.238	192.168.0.106	HTTP	1348	HTTP/1.1 200 OK
598	22.979814	192.168.0.1	192.168.0.106	HTTP/X.	1258	HTTP/1.1 200 OK
719	27.212421	192.168.0.106	34.104.35.123	HTTP	314	HEAD /edgedl/diffgen-puffin/hfnkpihlhgieaddgfemjhofofblmmb/3a69d16148e5275b431d8d791ce115
721	27.219799	34.104.35.123	192.168.0.106	HTTP	643	HTTP/1.1 200 OK
725	27.254570	192.168.0.106	192.168.0.1	HTTP	245	GET /ifc.xml HTTP/1.1
730	27.279775	192.168.0.1	192.168.0.106	HTTP/X.	568	HTTP/1.1 200 OK
738	27.296631	192.168.0.106	192.168.0.1	HTTP	314	SUBSCRIBE /ifc HTTP/1.1

Let's consider these two packets captured. The time used is:

22.968265 - 22.954516 = 0.013749s

Question3.

Wireshark · 分组 586 · report3.pcapng

Frame 586: 245 bytes on wire (1960 bits), 245 bytes captured (1960 bits) on interface \Device\NPF_{B4076EB8-F4CE-4B56-A0FE-125B0B2ABB8F}, id 0

Ethernet II, Src: CloudNetwork_22:e3:73 (30:03:c8:22:e3:73), Dst: TPLink_ad:43:98 (00:5f:67:ad:43:98)

Internet Protocol Version 4, Src: 192.168.0.106, Dst: 192.168.0.1

Transmission Control Protocol, Src Port: 56468, Dst Port: 1900, Seq: 1, Ack: 1, Len: 191

Hypertext Transfer Protocol

0000 00 5f 67 ad 43 98 30 03 c8 22 e3 73 08 00 45 00 ...g C 0 ...s E

0010 00 e7 c8 f3 40 00 40 06 ef 61 c0 a8 00 6a c0 a8 ...@ @ a ...j

0020 00 01 dc 94 07 6c 5f 23 c9 80 b6 b1 8e 12 50 18 ...l _ ...P

0030 02 01 b4 4c 00 00 47 45 54 20 2f 69 67 64 2e 78 ...L GE T /igd.x

0040 6d 6c 20 48 54 54 50 2f 31 2a 31 0d 0a 43 61 63 ml HTTP/1.1 Cac

0050 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6e 6f 2d 63 he-Contr ol: no-c

0060 61 63 68 65 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e ache Co nnection

0070 3a 20 43 6c 6f 73 65 0d 0a 50 72 61 67 6d 61 3a : Close Pragma:

0080 20 6e 6f 2d 63 61 63 68 65 0d 0a 41 63 63 65 70 no-cach e Accep

0090 74 3a 20 74 65 78 74 2f 78 6d 6c 2c 20 61 70 70 t: text/ xml, app

00a0 6c 69 63 61 74 69 6f 6e 2f 78 6d 6c 0d 0a 48 6f lication /xml Ho

00b0 73 74 3a 20 31 39 32 2e 31 36 38 2e 30 2e 31 3a st: 192.168.0.1:

00c0 31 39 30 30 0d 0a 55 73 65 72 2d 41 67 65 6e 74 1900 Us er-Agent

00d0 3a 20 4d 69 63 72 6f 73 6f 66 74 2d 57 69 6e 64 : Micros oft-Wind

00e0 6f 77 73 2f 31 30 2e 30 20 55 50 6e 50 2f 31 2e ows/10.0 UPnP/1.

00f0 30 0d 0a 0d 0a 0 ...

No.: 586 · Time: 22.954516 · Source: 192.168.0.106 · Destination: 192.168.0.1 · Protocol: HTTP · Length: 245 · Info: GET /igd.xml HTTP/1.1

Show packet bytes Layout: Vertical (Stacked)

关闭 帮助

This is the GET message details. It's clear that my computer's IP address is 192.168.0.106

And the target website's address is 192.168.0.1

Question4.



printMessage.p
df

I will also attach this file on blackboard.