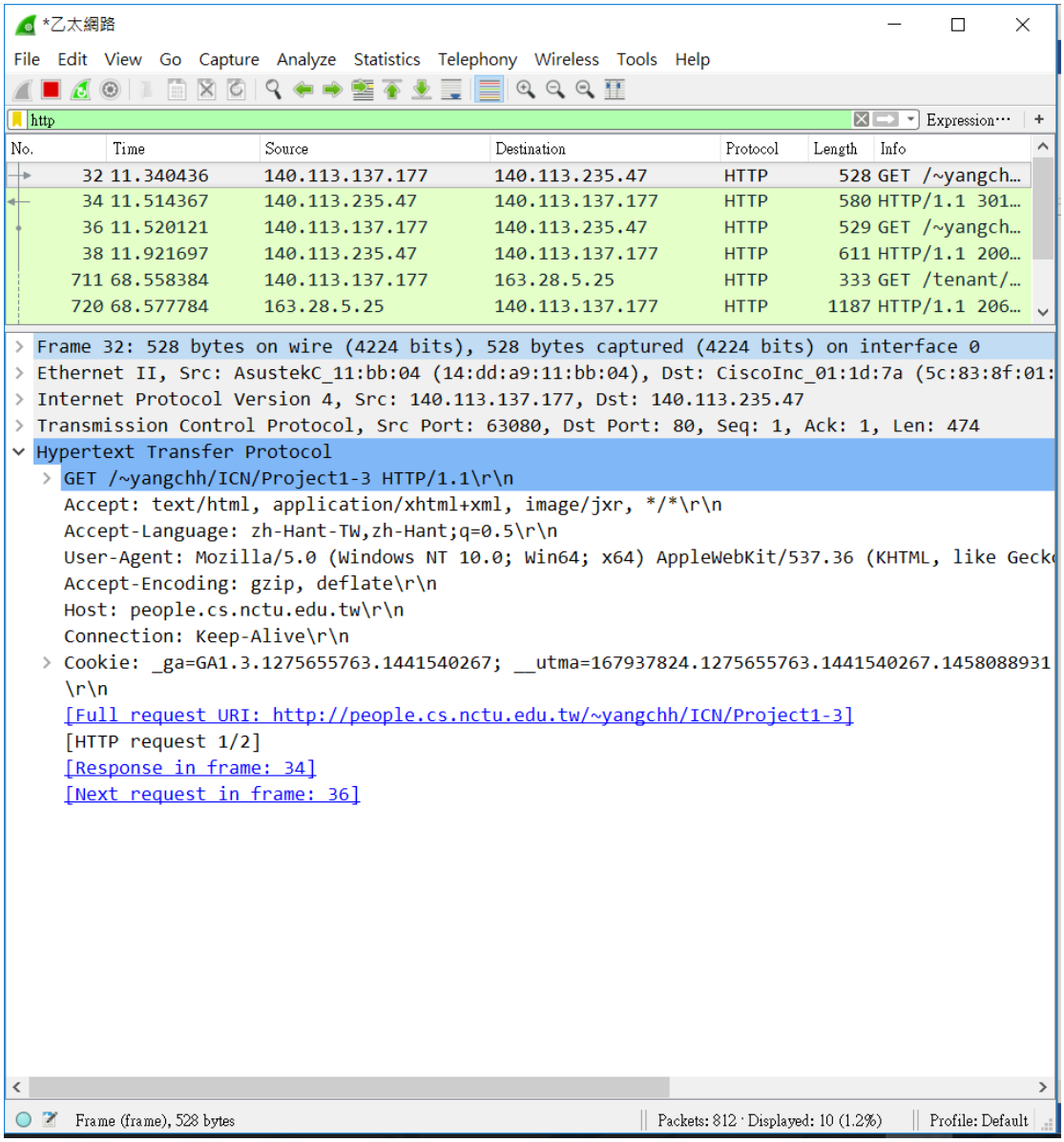
實驗過程：



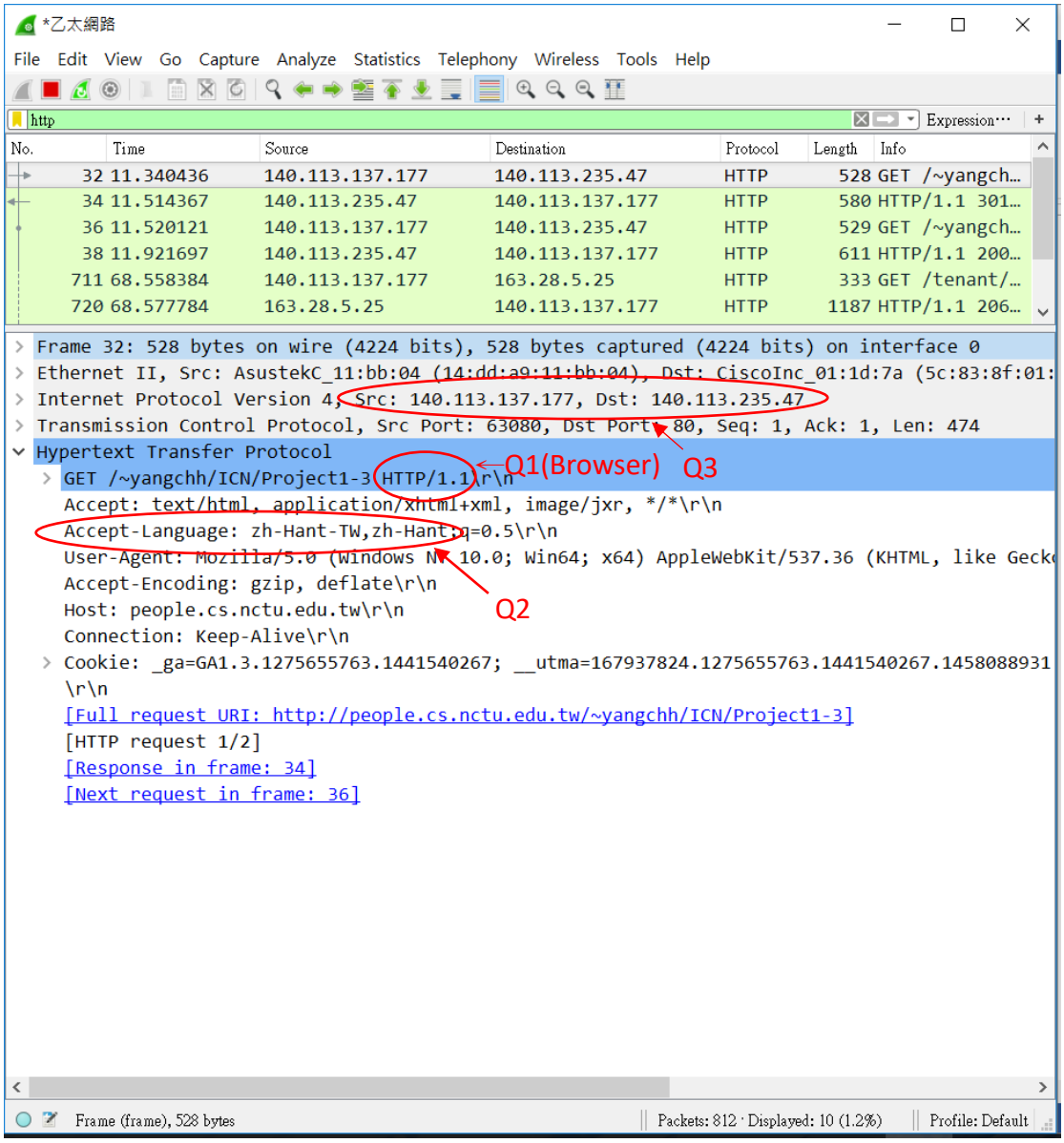
心得：

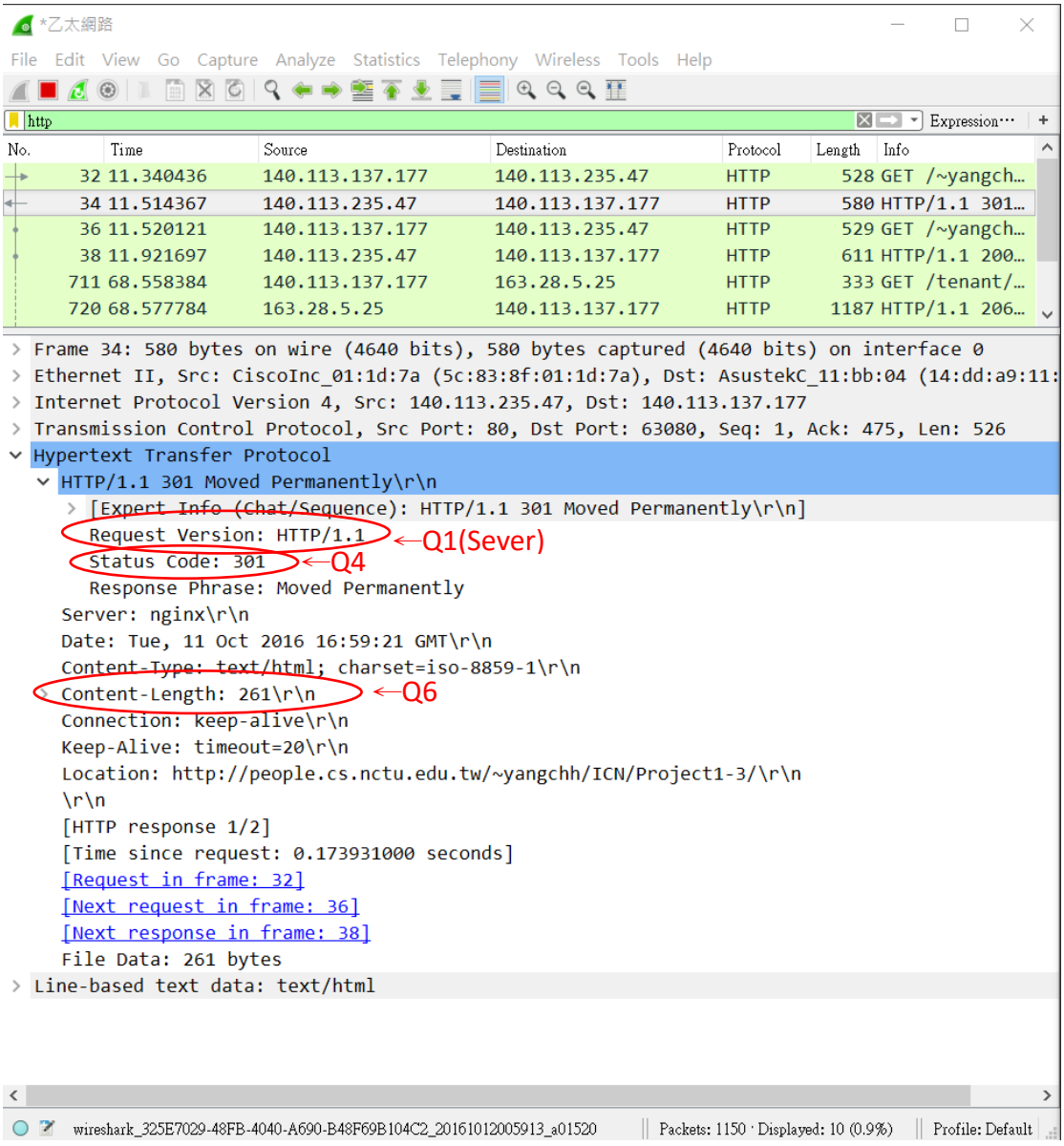
這次的作業感覺與前兩次作業相比相對簡單，但透過實作，我們能更加理解網路的架構，以及如何利用 Wireshark 觀察網路的動態。至於這次的作業遇到的困難就相對較少，很多問題上網就會有很多解答所以沒遇到甚麼困難。

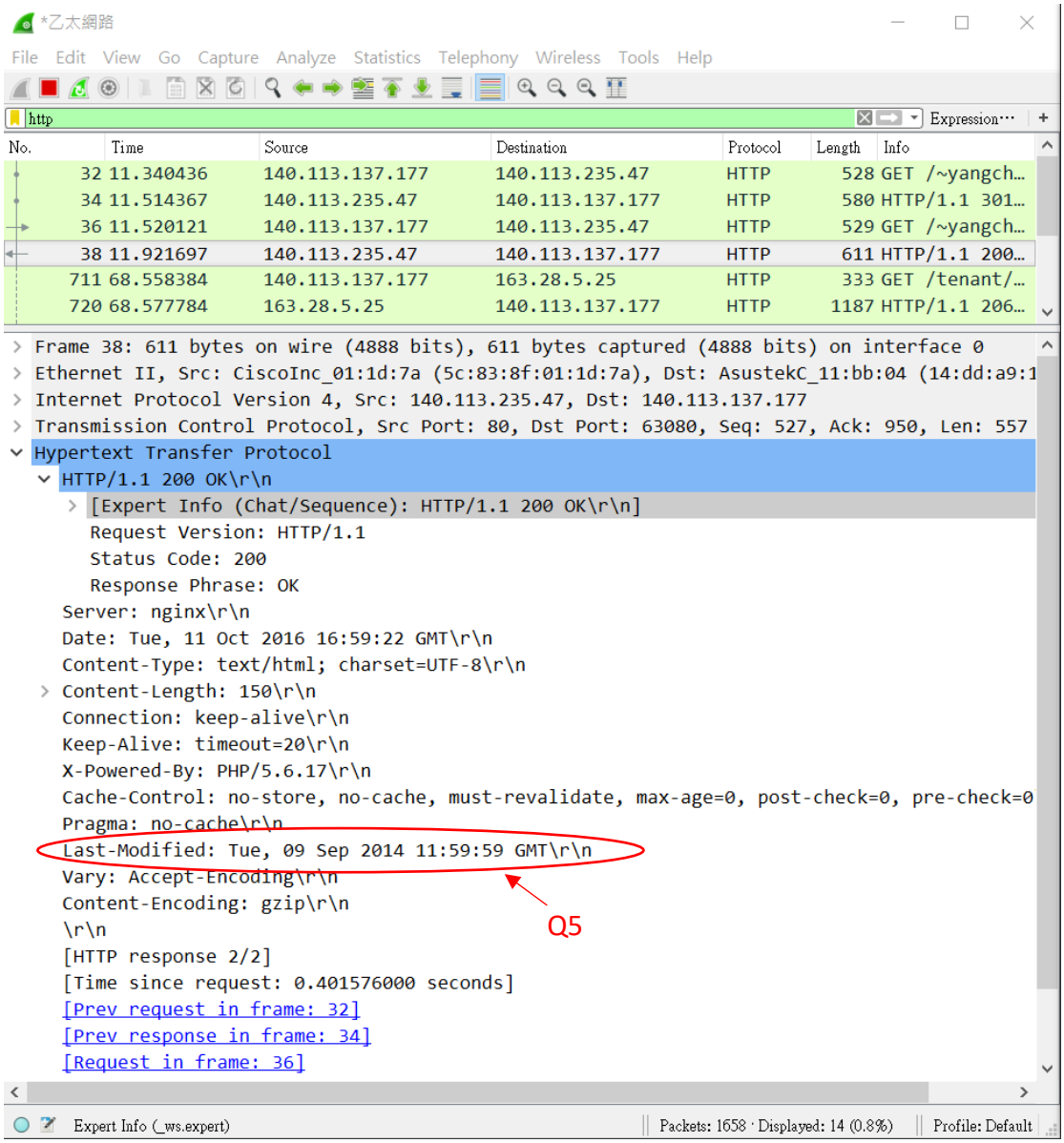
回答問題：

1. Browser: 1.1
   Sever: 1.1
2. Zh-Hant-TW , zh-Hant
3. My computer: 140.113.137.177
   People.cs.nctu.edu.tw: 140.113.235.47
4. 301
5. Tue, 09 Sep 2014 11:59:59

6. 261 bytes


*乙太網路
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
Expression…
No. Time Source Destination Protocol Length Info
32 11.340436 140.113.137.177 140.113.235.47 HTTP 528 GET /~yangch…
34 11.514367 140.113.235.47 140.113.137.177 HTTP 580 HTTP/1.1 301…
36 11.520121 140.113.137.177 140.113.235.47 HTTP 529 GET /~yangch…
38 11.921697 140.113.235.47 140.113.137.177 HTTP 611 HTTP/1.1 200…
711 68.558384 140.113.137.177 163.28.5.25 HTTP 333 GET /tenant/…
720 68.577784 163.28.5.25 140.113.137.177 HTTP 1187 HTTP/1.1 206…
Frame 32: 528 bytes on wire (4224 bits), 528 bytes captured (4224 bits) on interface 0
Ethernet II, Src: AsustekC_11:bb:04 (14:dd:a9:11:bb:04), Dst: CiscoInc_01:1d:7a (5c:83:8f:01:
Internet Protocol Version 4, Src: 140.113.137.177, Dst: 140.113.235.47
Transmission Control Protocol, Src Port: 63080, Dst Port: 80, Seq: 1, Ack: 1, Len: 474
Hypertext Transfer Protocol
GET /~yangchh/ICN/Project1-3 HTTP/1.1\r\n
Q1(Browser)
Q3
Accept: text/html, application/xhtml+xml, image/jxr, */*\r\n
Accept-Language: zh-Hant-TW,zh-Hant;q=0.5\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko
Accept-Encoding: gzip, deflate\r\n
Host: people.cs.nctu.edu.tw\r\n
Q2
Connection: Keep-Alive\r\n
Cookie: _ga=GA1.3.1275655763.1441540267; __utma=167937824.1275655763.1441540267.1458088931
\r\n
[Full request URI: http://people.cs.nctu.edu.tw/~yangchh/ICN/Project1-3]
[HTTP request 1/2]
[Response in frame: 34]
[Next request in frame: 36]
Frame (frame), 528 bytes
Packets: 812 · Displayed: 10 (1.2%)
Profile: Default


*乙太網路
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
Expression…
No. Time Source Destination Protocol Length Info
32 11.340436 140.113.137.177 140.113.235.47 HTTP 528 GET /~yangch…
34 11.514367 140.113.235.47 140.113.137.177 HTTP 580 HTTP/1.1 301…
36 11.520121 140.113.137.177 140.113.235.47 HTTP 529 GET /~yangch…
38 11.921697 140.113.235.47 140.113.137.177 HTTP 611 HTTP/1.1 200…
711 68.558384 140.113.137.177 163.28.5.25 HTTP 333 GET /tenant/…
720 68.577784 163.28.5.25 140.113.137.177 HTTP 1187 HTTP/1.1 206…
Frame 34: 580 bytes on wire (4640 bits), 580 bytes captured (4640 bits) on interface 0
Ethernet II, Src: CiscoInc_01:1d:7a (5c:83:8f:01:1d:7a), Dst: AsustekC_11:bb:04 (14:dd:a9:11:
Internet Protocol Version 4, Src: 140.113.235.47, Dst: 140.113.137.177
Transmission Control Protocol, Src Port: 80, Dst Port: 63080, Seq: 1, Ack: 475, Len: 526
Hypertext Transfer Protocol
HTTP/1.1 301 Moved Permanently\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 301 Moved Permanently\r\n]
Request Version: HTTP/1.1
←Q1(Sever)
Status Code: 301
←Q4
Response Phrase: Moved Permanently
Server: nginx\r\n
Date: Tue, 11 Oct 2016 16:59:21 GMT\r\n
Content-Type: text/html; charset=iso-8859-1\r\n
Content-Length: 261\r\n
←Q6
Connection: keep-alive\r\n
Keep-Alive: timeout=20\r\n
Location: http://people.cs.nctu.edu.tw/~yangchh/ICN/Project1-3/\r\n
\r\n
[HTTP response 1/2]
[Time since request: 0.173931000 seconds]
[Request in frame: 32]
[Next request in frame: 36]
[Next response in frame: 38]
File Data: 261 bytes
Line-based text data: text/html
wireshark_325E7029-48FB-4040-A690-B48F69B104C2_20161012005913_a01520
Packets: 1150 · Displayed: 10 (0.9%)
Profile: Default


*乙太網路
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
Expression…
No. Time Source Destination Protocol Length Info
32 11.340436 140.113.137.177 140.113.235.47 HTTP 528 GET /~yangch…
34 11.514367 140.113.235.47 140.113.137.177 HTTP 580 HTTP/1.1 301…
36 11.520121 140.113.137.177 140.113.235.47 HTTP 529 GET /~yangch…
38 11.921697 140.113.235.47 140.113.137.177 HTTP 611 HTTP/1.1 200…
711 68.558384 140.113.137.177 163.28.5.25 HTTP 333 GET /tenant/…
720 68.577784 163.28.5.25 140.113.137.177 HTTP 1187 HTTP/1.1 206…
Frame 38: 611 bytes on wire (4888 bits), 611 bytes captured (4888 bits) on interface 0
Ethernet II, Src: CiscoInc_01:1d:7a (5c:83:8f:01:1d:7a), Dst: AsustekC_11:bb:04 (14:dd:a9:1
Internet Protocol Version 4, Src: 140.113.235.47, Dst: 140.113.137.177
Transmission Control Protocol, Src Port: 80, Dst Port: 63080, Seq: 527, Ack: 950, Len: 557
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Request Version: HTTP/1.1
Status Code: 200
Response Phrase: OK
Server: nginx\r\n
Date: Tue, 11 Oct 2016 16:59:22 GMT\r\n
Content-Type: text/html; charset=UTF-8\r\n
Content-Length: 150\r\n
Connection: keep-alive\r\n
Keep-Alive: timeout=20\r\n
X-Powered-By: PHP/5.6.17\r\n
Cache-Control: no-store, no-cache, must-revalidate, max-age=0, post-check=0, pre-check=0
Pragma: no-cache\r\n
Last-Modified: Tue, 09 Sep 2014 11:59:59 GMT\r\n
Vary: Accept-Encoding\r\n
Content-Encoding: gzip\r\n
\r\n
[HTTP response 2/2]
[Time since request: 0.401576000 seconds]
[Prev request in frame: 32]
[Prev response in frame: 34]
[Request in frame: 36]
Q5
Expert Info (_ws.expert)
Packets: 1658 · Displayed: 14 (0.8%)
Profile: Default