

Nom Zemmouri
 Prénom Aymen
 Groupe 04

Travaux Pratiques N° 1 : Protocole HTTP

d. Répondre aux questions suivantes :

Questions	Réponses
- Quelle méthode http faisant l'objet de cette requête ?	GET
- Quelle est la requête URI de l'objet demandé ?	/
- Prévoir le nom du fichier demandé	HyperText Transfer Protocol
- Quelle est la version du protocole http ?	HTTP/1.1
- Quelle est la signification de « keep-alive » ?	Plusieurs demandes/réponses en une connexion TCP.
- Que signifie « q=0.9 » ?	Valeurs de Qualité pour définir les préférences lors de la demande de plusieurs types de MIME.
- Quel type de donnée le client préfère recevoir le plus dans la réponse http ?	XML, HTML

f. Répondre aux questions suivantes :

Questions	Réponses
- Que signifie la valeur 200 ?	Numéro a trois chiffres Le premier chiffre est la classe du code de status : 1=Information. 2=Réussite. 3=Redirection (une autre URL est fournie). 4=Erreur de client. 5=Erreur de serveur.
- Quel serveur est responsable de fournir la réponse http ?	Nginx/1.15.6
- Comment le corps de la réponse http est-il séparé de son en-tête ?	Les en-têtes sont séparés par une séquence CRLF, et les en-têtes sont séparés du corps par deux de ces séquences.
- Quel est le type des données renvoyées par le serveur dans le corps de la réponse http ?	CSS
- Combien de lignes de code comporte le document retourné ?	1

LES CAPTURES « WireShark » dans mon PC :

The image shows a Wireshark network traffic capture. The top pane displays a list of captured packets. Packet 8446 is an HTTP 200 OK response from 193.194.68.228 to 192.168.1.13. The middle pane shows the details of this packet, including the Hypertext Transfer Protocol section. The bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
7796	41.512974	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1262593 Ack=1 Win=253 Len=544 TSval=1470601688 TSecr=147938844
7848	41.805373	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1269761 Ack=1 Win=253 Len=1440 TSval=1470601982 TSecr=147939158
7867	41.910626	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1275521 Ack=1 Win=253 Len=544 TSval=1470602088 TSecr=147939266
7878	41.954905	17.253.57.201	192.168.1.13	TCP	930	80 → 50927 [ACK] Seq=1282369 Ack=1 Win=253 Len=864 TSval=1470602131 TSecr=147939300
8091	42.983427	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1318849 Ack=1 Win=253 Len=1440 TSval=1470603161 TSecr=147940356
8161	43.305887	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1331841 Ack=1 Win=253 Len=480 TSval=1470603483 TSecr=147940693
8200	43.407582	192.168.1.13	193.194.68.228	HTTP	866	GET / HTTP/1.1
8380	43.980503	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1368865 Ack=1 Win=253 Len=480 TSval=1470604155 TSecr=147941386
8446	44.151413	193.194.68.228	192.168.1.13	HTTP	1008	HTTP/1.1 200 OK (text/html)
8492	44.265986	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1379457 Ack=1 Win=253 Len=1440 TSval=1470604440 TSecr=147941687

Hypertext Transfer Protocol

HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

[HTTP/1.1 200 OK\r\n]

[Severity level: Chat]

[Group: Sequence]

Response Version: HTTP/1.1

Status Code: 200

[Status Code Description: OK]

Response Phrase: OK

Server: nginx/1.15.6\r\n

Date: Thu, 25 Feb 2021 12:50:44 GMT\r\n

Content-Type: text/html; charset=utf-8\r\n

Transfer-Encoding: chunked\r\n

Connection: keep-alive\r\n

X-Powered-By: PHP/5.6.40\r\n

Expires: Sun, 19 Nov 1978 05:00:00 GMT\r\n

Cache-Control: no-cache, must-revalidate\r\n

X-Content-Type-Options: nosniff\r\n

Access-Control-Allow-Origin: *\r\n

Access-Control-Allow-Credentials: true\r\n

Access-Control-Allow-Headers: Authorization, access-token\r\n

Content-Language: en\r\n

X-Frame-Options: SAMEORIGIN\r\n

x-drupal-cache-os-boxes-plugin: os_boxes_html,os_boxes_html,os_sv_list_box,os_slideshow_box,os_boxes_html,os_boxes_html,os_boxes_html\r\n

[truncated]x-drupal-cache-os-boxes-cache-id: os_boxes_cache:45:hwp_personal_contact_html:0,os_boxes_cache:45:1512901820:0,os_boxes_cache:45:os_news_latest:node:news:0,os_boxes_

X-Generator: OpenScholar for Drupal 7 (http://theopenscholar.org)\r\n

0000 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/1.1 200 OK

0010 0a 53 65 72 76 65 72 3a 20 6e 67 69 6e 78 2f 31 .Server: nginx/1

0020 2e 31 35 2e 36 0d 0a 44 61 74 65 3a 20 54 68 75 .15.6 .D ate: Thu

0030 2c 20 32 35 20 46 65 62 20 32 30 32 31 20 31 32 , 25 Feb 2021 12

Frame (1008 bytes) Reassembled TCP (26862 bytes) De-chunked entity body (25750 bytes)

Text item (text), 17 bytes

Packets: 10216 · Displayed: 142 (1.4%) · Dropped: 0 (0.0%) Profile: Default

UNIVERSITE DE BATNA 2 – DEPARTEMENT D'INFORMATIQUE – M1 RSD – TECHNOLOGIES WEB

http

No.	Time	Source	Destination	Protocol	Length	Info
7796	41.512974	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1262593 Ack=1 Win=253 Len=544 TSval=1470601688 TSecr=147938844
7848	41.805373	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1269761 Ack=1 Win=253 Len=1440 TSval=1470601982 TSecr=147939158
7867	41.910626	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1275521 Ack=1 Win=253 Len=544 TSval=1470602088 TSecr=147939266
7878	41.954905	17.253.57.201	192.168.1.13	TCP	930	80 → 50927 [ACK] Seq=1282369 Ack=1 Win=253 Len=864 TSval=1470602131 TSecr=147939300
8091	42.983427	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1318849 Ack=1 Win=253 Len=1440 TSval=1470603161 TSecr=147940356
8161	43.305887	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1331841 Ack=1 Win=253 Len=480 TSval=1470603483 TSecr=147940693
8200	43.407582	192.168.1.13	193.194.68.228	HTTP	866	GET / HTTP/1.1
8380	43.980503	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1368865 Ack=1 Win=253 Len=480 TSval=1470604155 TSecr=147941386
8446	44.151413	193.194.68.228	192.168.1.13	HTTP	1008	HTTP/1.1 200 OK (text/html)
8492	44.265986	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1379457 Ack=1 Win=253 Len=1440 TSval=1470604440 TSecr=147941687

Link: <http://cs.univ-batna2.dz/home>; rel="canonical",<http://cs.univ-batna2.dz/home>; rel="shortlink"\r\n\r\n

[HTTP response 1/1]

[Time since request: 0.743831000 seconds]

[Request in frame: 8200]

[Request URI: http://cs.univ-batna2.dz/]

> HTTP chunked response

File Data: 25750 bytes

Line-based text data: text/html (274 lines)

```

<!DOCTYPE html>\n
<!--[if IEMobile 7]><html class="iem7" lang="en" dir="ltr"><![endif]-->\n
<!--[if lte IE 6]><html class="lt-ie9 lt-ie8 lt-ie7" lang="en" dir="ltr"><![endif]-->\n
<!--[if (IE 7)&(!IEMobile)]><html class="lt-ie9 lt-ie8" lang="en" dir="ltr"><![endif]-->\n
<!--[if IE 8]><html class="lt-ie9" lang="en" dir="ltr"><![endif]-->\n
<!--[if (gte IE 9)|(gt IEMobile 7)]><!--><html lang="en" dir="ltr"><!--<![endif]-->\n
<head>\n
<meta charset="utf-8" />\n
<meta name="generator" content="OpenScholar for Drupal 7 (http://theopenscholar.org)" />\n
<link rel="canonical" href="http://cs.univ-batna2.dz/home" />\n
<link rel="shortlink" href="http://cs.univ-batna2.dz/home" />\n
<link rel="shortcut icon" href="http://cs.univ-batna2.dz/sites/default/files/web/files/network-blue-64-77371.png?m=1510674707" type="image/vnd.microsoft.icon" />\n
<meta name="twitter:card" content="summary" />\n
<meta property="og:title" content="Département d&#039;Informatique" />\n
<meta name="description" content="Université Batna 2" />\n
<meta property="og:type" content="university" />\n
<meta property="og:image" content="http://cs.univ-batna2.dz/sites/default/files/web/files/logo-informatique_0.png?m=1511182042" />\n
<meta name="twitter:image" content="http://cs.univ-batna2.dz/sites/default/files/web/files/logo-informatique_0.png?m=1511182042" />

```

0000	48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d	HTTP/1.1 200 OK
0010	0a 53 65 72 76 65 72 3a 20 6e 67 69 6e 78 2f 31	Server: nginx/1
0020	2e 31 35 2e 36 0d 0a 44 61 74 65 3a 20 54 68 75	.15.6.0 ate: Thu
0030	2c 20 32 35 20 46 65 62 20 32 30 32 31 20 31 32	, 25 Feb 2021 12

Frame (1008 bytes) Reassembled TCP (26862 bytes) De-chunked entity body (25750 bytes)

Text item (text), 17 bytes Packets: 10216 · Displayed: 142 (1.4%) · Dropped: 0 (0.0%) Profile: Default

UNIVERSITE DE BATNA 2 – DEPARTEMENT D'INFORMATIQUE – M1 RSD – TECHNOLOGIES WEB

The image displays a Wireshark network traffic capture. The top section shows a list of network packets. The selected packet (No. 8200) is an HTTP GET request from 192.168.1.13 to 193.194.68.228. The bottom section shows the detailed view of this packet, including the request headers and cookies.

No.	Time	Source	Destination	Protoc	Length	Info
7796	41.512974	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1262593 Ack=1 Win=253 Len=544 TSval=1470601688 TSecr=147938844
7848	41.805373	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1269761 Ack=1 Win=253 Len=1440 TSval=1470601982 TSecr=147939158
7867	41.910626	17.253.57.201	192.168.1.13	TCP	610	80 → 50927 [ACK] Seq=1275521 Ack=1 Win=253 Len=544 TSval=1470602088 TSecr=147939266
7878	41.954905	17.253.57.201	192.168.1.13	TCP	930	80 → 50927 [ACK] Seq=1282369 Ack=1 Win=253 Len=864 TSval=1470602131 TSecr=147939300
8091	42.983427	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1318849 Ack=1 Win=253 Len=1440 TSval=1470603161 TSecr=147940356
8161	43.305887	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1331841 Ack=1 Win=253 Len=480 TSval=1470603483 TSecr=147940693
8200	43.407582	192.168.1.13	193.194.68.228	HTTP	866	GET / HTTP/1.1
8380	43.980503	17.253.57.201	192.168.1.13	TCP	546	80 → 50927 [ACK] Seq=1368865 Ack=1 Win=253 Len=480 TSval=1470604155 TSecr=147941386
8446	44.151413	193.194.68.228	192.168.1.13	HTTP	1008	HTTP/1.1 200 OK (text/html)
8492	44.265986	17.253.57.201	192.168.1.13	TCP	1506	80 → 50927 [ACK] Seq=1379457 Ack=1 Win=253 Len=1440 TSval=1470604440 TSecr=147941687

Hypertext Transfer Protocol

GET / HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET / HTTP/1.1\r\n]

[GET / HTTP/1.1\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Method: GET

Request URI: /

Request Version: HTTP/1.1

Host: cs.univ-batna2.dz\r\n

Connection: keep-alive\r\n

Cache-Control: max-age=0\r\n

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/88.0.4324.192 Safari/537.36\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9\r\n

Accept-Encoding: gzip, deflate\r\n

Accept-Language: en-US,en;q=0.9,ar;q=0.8\r\n

[truncated] Cookie: __utmz=154703530.1604912078.1.1.utmcsr=(direct)|utmccn=(direct)|utmcmd=(none); __ga=GA1.2.551698970.1606559303; has_js=1; __atuvc=1%7C5%2C0%7C6%2C0%7C7%2C7%7C8

Cookie pair: __utmz=154703530.1604912078.1.1.utmcsr=(direct)|utmccn=(direct)|utmcmd=(none)

Cookie pair: __ga=GA1.2.551698970.1606559303

Cookie pair: has_js=1

Cookie pair: __atuvc=1%7C5%2C0%7C6%2C0%7C7%2C7%7C8

Cookie pair: __atuvs=603793bf49cd6d33000

Cookie pair: __utma=154703530.1174481308.1604912078.1614192135.1614255040.11

Cookie pair: __utmc=154703530

Cookie pair: __utmt=1

Cookie pair: __utmb=154703530.1.10.1614255040

\r\n

[Full request URI: http://cs.univ-batna2.dz/]

[HTTP request 1/1]

[Response in frame: 8446]

0000 18 0f 76 cd 22 40 c8 69 cd b4 28 9c 08 00 45 00 ..v."@.i ..(---E-

wireshark_Wi-FiVQ3KZ0.pcapng

Packets: 10216 · Displayed: 142 (1.4%) · Dropped: 0 (0.0%)

Profile: Default