Lab assignment 1

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# Virtual Machine

Installation went without a problem

# http Request Messages: GET/HEAD

2.1

1e: HEAD (with host nu.nl) > Permanent moved (301)

pracuser@pracuser-VirtualBox:~$ telnet nu.nl 80

Trying 62.69.166.254...

Connected to nu.nl.

Escape character is '^]'.

HEAD /sport HTTP/1.1

host:nu.nl

HTTP/1.1 301 MOVED PERMANENTLY

Location: http://www.nu.nl/sport

Via: sanin009.noa

Connection closed by foreign host.

2e: HEAD (with host [www.nu.nl](http://www.nu.nl)) > no response

pracuser@pracuser-VirtualBox:~$ telnet www.nu.nl 80

Trying 62.69.166.210...

Connected to nu-nl.gslb.sanomaservices.nl.

Escape character is '^]'.

HEAD /sport HTTP/1.1

host:www.nu.nl

3e: GET (with host www.nu.nl) ) contents received

2.2

Yes it corresponds with what we see in a browser. But offcourse without css or actual images.

2.3

It expires in a minute. When the page is requested within that minute, the browser will show the cached version instead of requesting it at the server. This reduces traffic.

2.4

The browser looks in the cache if it has the page. If it does, it checks the if-modified-since field in the request with the last-modified field in the cache. If the if-modified-since field is before the last-modified, the browser will ask the server for the new copy. Otherwise the cached page is loaded.

# HHTP Request Message: PUT

3.1  
If the content-length field is smaller it cuts of the message. And if it exceeds the content it adds enters to fill the message.

# 4. Basic Authentication

4.1  
Als je je wachtwoord opslaat blijf je ingelogd bij het herladen. Gebeurt ook als je je wachtwoord niet opslaat in de browser.

4.2  
1e poging:

pracuser@pracuser-VirtualBox:~$ telnet httpbin.org 80

Trying 23.21.86.144...

Connected to httpbin.org.

Escape character is '^]'.

HEAD /basic-auth/user/passwd HTTP/1.1

host:httpbin.org

HTTP/1.1 401 UNAUTHORIZED

Connection: keep-alive

Server: gunicorn/18.0

Date: Mon, 11 Nov 2015 14:06:22 GMT

Access-Control-Allow-Credentials: true

Access-Control-Allow-Origin: \*

Www-Authenticate: Basic realm="Fake Realm"

Content-Length: 0

Via: 1.1 vegur

Connection closed by foreign host.

2e poging:

pracuser@pracuser-VirtualBox:~$ telnet httpbin.org 80

Trying 107.20.202.171...

Connected to httpbin.org.

Escape character is '^]'.

HEAD /basic-auth/user/passwd HTTP/1.1

host:httpbin.org

Authorization: Basic dXNlcjpwYXNzd2Q=

HTTP/1.1 200 OK

Connection: keep-alive

Server: gunicorn/18.0

Date: Mon, 11 Nov 2015 14:11:49 GMT

Content-Type: application/json

Content-Length: 46

Access-Control-Allow-Origin: \*

Access-Control-Allow-Credentials: true

Via: 1.1 vegur

4.3

No, we get the 401 error again.

pracuser@pracuser-VirtualBox:~$ telnet httpbin.org 80

Trying 23.21.86.144...

Connected to httpbin.org.

Escape character is '^]'.

HEAD /basic-auth/user/passwd HTTP/1.1

host:httpbin.org

HTTP/1.1 401 UNAUTHORIZED

Connection: keep-alive

Server: gunicorn/18.0

Date: Mon, 11 Nov 2015 14:14:33 GMT

Access-Control-Allow-Credentials: true

Www-Authenticate: Basic realm="Fake Realm"

Access-Control-Allow-Origin: \*

Content-Length: 0

Via: 1.1 vegur