IK1203 - LAB 1 - Emil Ståhl

1.4.2

Q 1.

Used "telnet OPEN www.google.com 80" directly in the command line.
To download the page I typed "GET /index.html HTTP/1.1". The server responded with 200 OK and the requested object.

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Q 2.

www.time.com uses Cloudfront
www.stockholm uses Apache/2.4.7 (Ubuntu)
www.google.com uses gws (Google web services)
www.un.org could not find (Apache?)

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Q 3.

I used the command "HEAD /index.html HTTP/1.1"

The server responds with only the header. I.e system information

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1.5.1

Q 4.

```
Last login: Mon Jan 28 15:52:03 on ttys000
Emils-MacBook-Pro-15:~ emilstahl$ telnet 192.168.3.16 smtp
Trying 192.168.3.16...
Connected to 192.168.3.16.
Escape character is '^]'.

220 mail.private.lab ESMTP Postfix (Ubuntu)

HELO mail.private.lab
250 mail.private.lab
MAIL FROM: <user49@private.lab>
250 2.1.0 Ok
RCPT TO: <user49@private.lab>
250 2.1.5 Ok
DATA
354 End data with <CR><LF>.<CR><LF>
This is a test from Emil Stahl
.
250 2.0.0 Ok: queued as DD13E7EAC9
quit
221 2.0.0 Bye
Connection closed by foreign host.
```

Q 5.

It displays it as sender.

Q 6.

550 5.1.1 <emilstah@kth.se>: Recipient address rejected: kth.se

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1.6.1

Q 7.

```
Emils-MacBook-Pro-15:~ emilstahl$ telnet 192.168.3.16 pop3
Trying 192.168.3.16...
Connected to 192.168.3.16.
Escape character is '^]'.
+OK Hello there.
user user49
+OK Password required.
```

```
pass user49
+OK logged in.
list
+OK POP3 clients that break here, they violate STD53.
1 564
2 316
3 323
4 417
5 327
.
retr 5
+OK 327 octets follow.
Return-Path: <emil@stahl.com>
X-Original-To: user49@private.lab
Delivered-To: user49@private.lab
Received: from mail.private.lab (dhcp-114.ik2213.lab
[192.168.3.114])
    by mail.private.lab (Postfix) with SMTP id 6DB357EAC9
    for <user49@private.lab>; Mon, 28 Jan 2019 20:03:11 +0100
(CET)

This is a test from Emil Stahl
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Q 8.

I use the command "TOP <message number> <number of lines>

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Q 9.

```
Emils-MacBook-Pro-15:~ emilstahl$ telnet 192.168.3.16 pop3
Trying 192.168.3.16...
Connected to 192.168.3.16.
Escape character is '^]'.
+OK Hello there.
user user49
+OK Password required.
pass user49
+OK logged in.
list
+OK POP3 clients that break here, they violate STD53.
1 474
.
retr 1
+OK 474 octets follow.
Return-Path: <user49@private.lab>
X-Original-To: user49@private.lab
Delivered-To: user49@private.lab
Received: from mail.private.lab (dhcp-111.ik2213.lab [192.168.3.111])
    by mail.private.lab (Postfix) with SMTP id F29C37EAC9
```

```
    for <user49@private.lab>; MON, 28 Jan 2019 20:38:51 +0100 (CET)

This is a test from Emil Stahl
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DELE 1
+OK Deleted.
Quit
+OK Bye-bye.
Connection closed by foreign host.
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TASK 2

2.5.2

Q 10.

HTTP/1.1 on both

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Q 11.

130.229.140.128

128.119.245.12

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Q 12.

It's 128 bytes long

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2.5.4

Q 13.

NO.

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Q 14.

In the first one yes it returned HTML file, but in cached one it didn't.

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Q 15.

YES I see it

Q 16.

304 NOT MODIFIED, NO.

2.5.6

Q 17.

1 was sent

Q 18.

4 packets (segments) was included.

2.5.7

Q 19.

3 to requests 128.119.245.12

Q 20.

It downloaded in parallel.

The images were downloaded over different TCP connections and then reassembled.