dfilip.xyz/pcom

Email - RFC822

From: profesor@upb.ro

To: student@upb.ro

Subject: Tema

// linie goala

Draga student,

Fa-ti tema!

Cu bine,

Profesorul.

Email - MIME

MIME-Version: 1.0

From: Student Studentescu <student@upb.ro>

To: Profesor PC <profesor@upb.ro>

Subject: Re: Tema

Content-Type: multipart/mixed; boundary=abc

--abc

Content-Type: text/plain

// rand liber

Atasez tema.

Cu bine,

Studentul

--abc

Content-Type: text/plain

Content-Disposition: attachment; filename="tema.c"

#include <stdio.h>

int main()

{

printf("Aceasta este tema mea\n");

return 0;

}

--abc

SMTP

* Foloseste protocolul Telnet
  + Avem comenzi in format ASCII, care sunt terminate cu CRLF (\r\n)
* TCP, port 25

dorinel@Dorinels-MacBook-Pro ~ % telnet 127.0.0.1 1234

Trying 127.0.0.1...

Connected to localhost.

Escape character is '^]'.

220 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa Python SMTP proxy version 0.2

HELO cia.ro

250 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa

MAIL FROM: <dorinel.filip@upb.ro>

250 Ok

RCPT TO: <dorinel.filip@gmail.com>

250 Ok

data

354 End data with <CR><LF>.<CR><LF>

FROM: Doru <dorinel.filip@upb.ro>

TO: Dorinel <dorinel.filip@gmail.com>

Subject: Ceva

Acesta este un email

chiar cu mai multe linii

1. dasada

2. sddsada

.

250 Ok

QUIT

221 Bye

Connection closed by foreign host.

Serverul trimite primul un mesaj (220 …. )

Comenzile clientului au 4 caractere (HELO, RCPT, MAIL)

Pentru fiecare comanda serverul raspunde, iar raspunsul incepe cu un cod

Mesajul se termina printr-un punct singur pe linie.

Mini-tutorial

1. In terminal 1, rulam serverul de SMTP cu Python

In terminalul 2, telnet 127.0.0.1 PORT si trimitem un EMAIL

* 1. Notam codurile de raspuns OK
     1. 220
     2. MAIL - 250
     3. RCPT - 250….

1. Ex 2.

a) Mesaj cu atasament  
MIME-Version: 1.0

From: Student Studentescu <student@upb.ro>

To: Profesor PC <profesor@upb.ro>

Subject: Re: Tema

Content-Type: multipart/mixed; boundary=abc

--abc

Content-Type: text/plain

Atasez tema.

Cu bine,

Studentul

--abc

Content-Type: text/plain

Content-Disposition: attachment; filename="tema.c"

#include <stdio.h>

int main()

{

printf("Aceasta este tema mea\n");

return 0;

}

--abc

Cod C/C++

TODO: Socket TCP catre 127.0.0.1

* HINT: <https://gist.githubusercontent.com/dorinelfilip/caa5853c6e59e4e79e68c7adbf7f9f99/raw/d6eacbfa12810980d3991cc23b89a87361a75627/open_socket.c>

Completam codul folosind send\_command

* Trimite comanda catre server (adaugand \r\n la final)
* Afiseaza raspunsul de la server
* Verifica daca raspunsul incepe cu expected

BONUS

* Trimiteti mail catre [dorinel.filip@upb.ro](mailto:dorinel.filip@upb.ro)
* Cel putin un subiect si numele vostru