
MIC0003: Computer Networking

Assignment 3: Mail Client

Deadline: 4 April, 2011

The goal of the assignment is to familiarize yourselves with the Simple Mail Transfer Protocol (SMTP) and other e-mail related concepts.

1 Assignment

You are going to implement a mail user agent supporting (only) email sending to remote hosts through the SMTP protocol, as defined in RFC 821¹.

- Connect to the SMTP server and exchange host information (HELO).
- Specify the e-mail sender (MAIL FROM).
- Specify the e-mail recipient (RCPT TO).
- Specify the e-mail content (DATA).
- Terminate the connection (QUIT).

A solution skeleton with a GUI is also provided (you'll only need to modify the *SMTPConnection*), but you are welcome to roll your own (especially if you choose another programming language over Java).

2 Notes

- You can try out the SMTP protocol manually, by connecting to an SMTP server directly with telnet (e.g. `telnet linux.scs.ubbcluj.ro 25`).
- If you're extending the skeleton, the domain name of the recipient **must** be the canonical name of the receiving SMTP server.
- All lines are expected to be terminated by a carriage-return and a line-feed combo.

Google is your friend.

¹<http://www.rfc-editor.org/rfc/rfc821.txt>

3 Deliverables

The programming language is not fixed (i.e. you can use whatever you like), but a compilation script **must** be provided (makefile for C/C++, ant file for Java, etc). The compilation script requirement is waived if the solution is presented in class, and strictly before the deadline.

All the source files must include your full name, user name and group identifier (the lack thereof leading to a failed assignment).

The source files, compilation script and other data files should be uploaded in a single archive to the usual location (<http://www.scs.ubbcluj.ro/~labhu/laborok.php>).