

TP 1 Assignment

Internet, intranet and Web
Technologies and protocols for application communications
Info et Réseaux en Apprentissage, Sup Galilée, Paris Nord

November 3rd, 2014

Work in a group of two people (three if not possible). Document your work with a synthetic report, in plain text or PDF format and send it to `marco.solieri@lipn.univ-paris13.fr` by 5:15 pm using “[IWEB14]” as the subject’s prefix.

1 Email: fake sender address

Use the `telnet` program to perform a SMTP connection. Send a mail message addressed to one of your mail addresses, pretending you are me, i.e., the “From” header has to be `marco.solieri@lipn.univ-paris13.fr`.

2 Email: setup OpenPGP

Setup and use OpenPGP. See the GPG mini how to at <https://www.gnupg.org/howtos/fr/GPGMiniHowto-3.html>, manpages or other web resources.

1. Use the `gpg` program to create your key pair (private and public key).
2. Verify authenticity and sign at least three public keys of your colleagues.
3. Compose a text message, then sign it.
4. Encrypt the message for one of your colleagues and then transmit it attached to an email message. (Everyone should receive one of this kind.)
5. Decrypt and then verify the message you received.

3 Version control

Setup and use a Git repositories on two hosts. See the Git book <http://git-scm.com/book/fr/v2>, manpages, or other web resources.

1. Create a directory that contains one file, named "README". Run the `init` command in order to create a git repository from that directory.
2. Add a new file, named "index.html", to the directory and to the repo with `add`. Check the status of the repo with `status`.
3. Commit your local modification with `commit`, not forgetting to enter a meaningful log message. Check again the status of the repo with `status` and `log`.
4. (On another host B.) Clone the repo on the first host with the `clone` command, with argument in the form of `user@host.a:/full/path/to/the/project` (like `scp`).
5. (On B.) Create a new branch named "mybranch" with command `git checkout -b mybranch`.
6. (On B.) Add another file, named "style.css", to the directory and to the repo with `add`. Commit your changes and check the status looking also as the full history with `hist -all` command.

4 Service design

All together, at 5:15pm (or when almost everybody finished first exercises).