HTTPS Everywhere

Free Technology Workshop

Secure Browsing and Email

Web Browsing with HTTPS
Secure Email with OpenPGP

Organised by Steven Gordon
Room RS309
9am - 12noon Friday 27 June 2014
http://ict.siit.tu.ac.th/moodle/

Bulk surveillance violates our
fundamental rights
and makes free speech risky.

But we're far from helpless
to do something about it.

PRIV   GnuPG   PUB

EmailSelfDefense.fsf.org

SSH

Adresses

- Local copies of software
    - http://ict.siit.tu.ac.th/software/
- Presentation slides and videos
    - http://ict.siit.tu.ac.th/moodle/

- Local address for ICT
    - ict.siit.tu.ac.th (from anywhere)
    - 10.10.6.11 (from inside SIIT)

SSH Access to ICT

- Use PuTTY (Windows) or ssh (OSX, Linux)
    - Address: ict.siit.tu.ac.th
    - Username: u5412345678
    - Password: supplied to you
- Once logged in you can:
   - Change password: passwd
    - Exit: exit

SSH and Tunnelling

- ict.siit.tu.ac.th
  - username: u5412345678
  - (Replace with your student ID)
  - Password has been provided to you
- Dynamic forwarding on command line, Linux/OSX:
  - `ssh -l u5412345678 -N -D 6666 ict.siit.tu.ac.th`
- In browser proxy settings:
  - SOCKS host: localhost
  - Port: 6666

SSH on Windows with PuTTY

- PuTTY Configuration:
- Connection -> SSH -> Tunnels
  - Source Port: 6666
  - Destination: ict.siit.tu.ac.th
  - Select "Dynamic"

Example SOCKS Proxy in Firefox
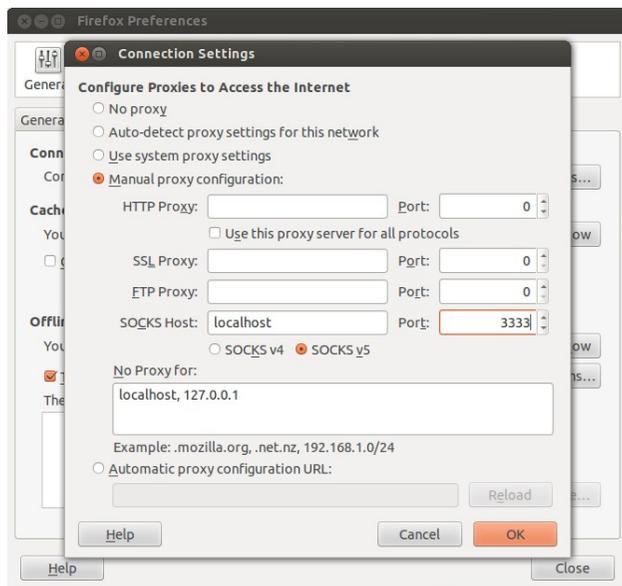
Firefox Plugins

Firefox (and Chrome) Plugins

- HTTPS Everywhere
  - https://www.eff.org/https-everywhere
- Privacy: AdBlock Plus, Ghostery
- Safety: NoScript
- Proxy: FoxyProxy, Hola Unblocker
- Passwords: LastPass, KeeFox (KeePass)
- And many more

Secure Email with PGP

Free Software Foundation: Email Self Defense
Guide to using encrypted email with GnuPG,
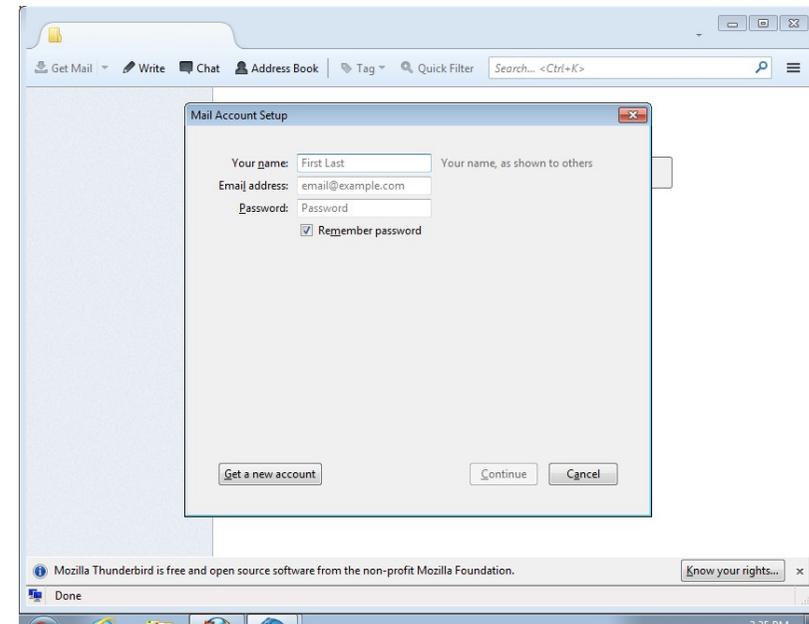Engimail and Thunderbird
http://emailselfdefense.fsf.org/
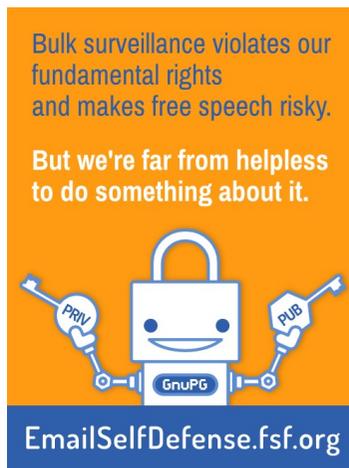
Steps

- Install Thunderbird Email Client
  - Setup an account, e.g. gmail, hotmail or siit
- (Windows only) Install GPG4WIN
- Install Engimail Add-on in Thunderbird
- In Thunderbird:
  - Make your keys
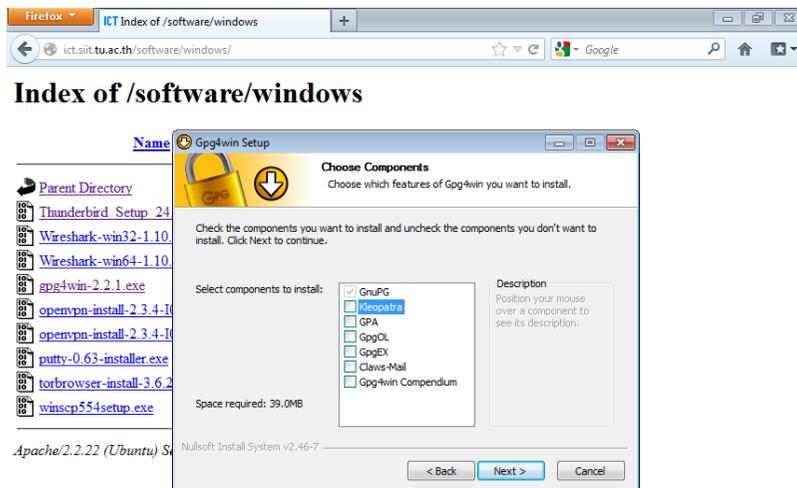 - Distribute your keys
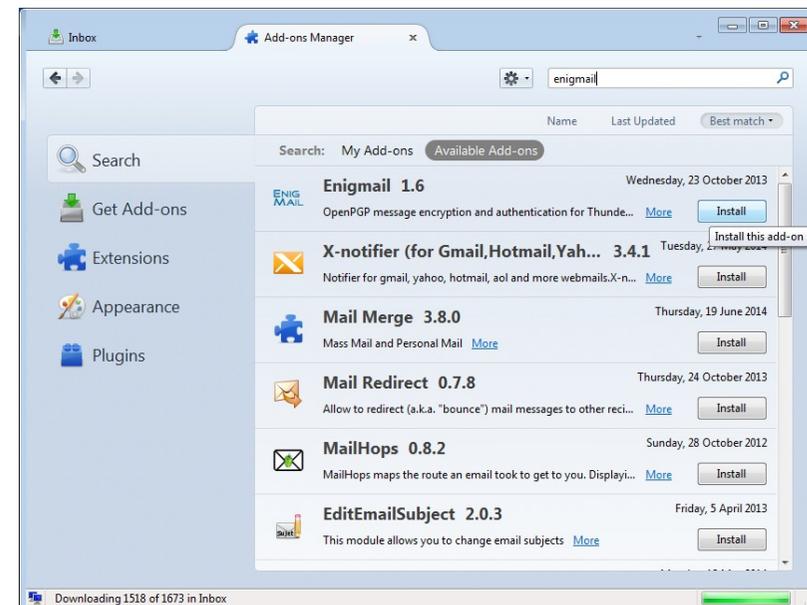 - Send signed/encrypted emails

Install Thunderbird

Add an Account
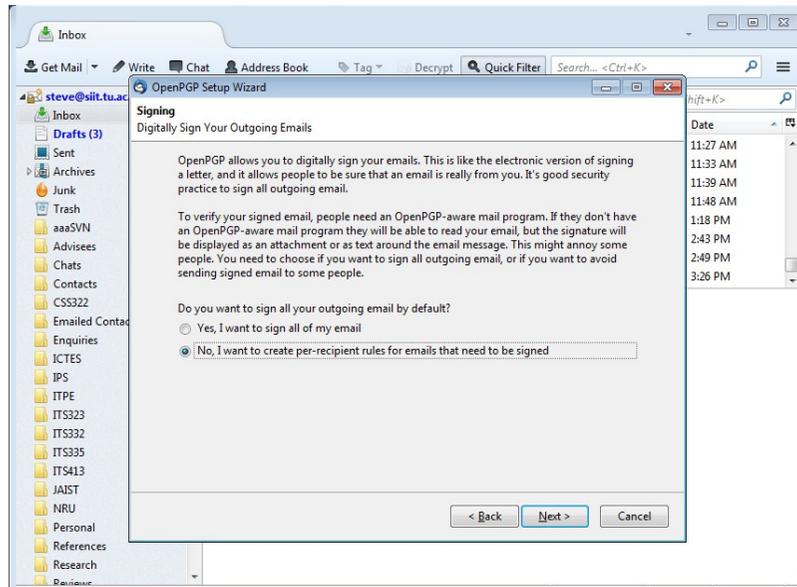

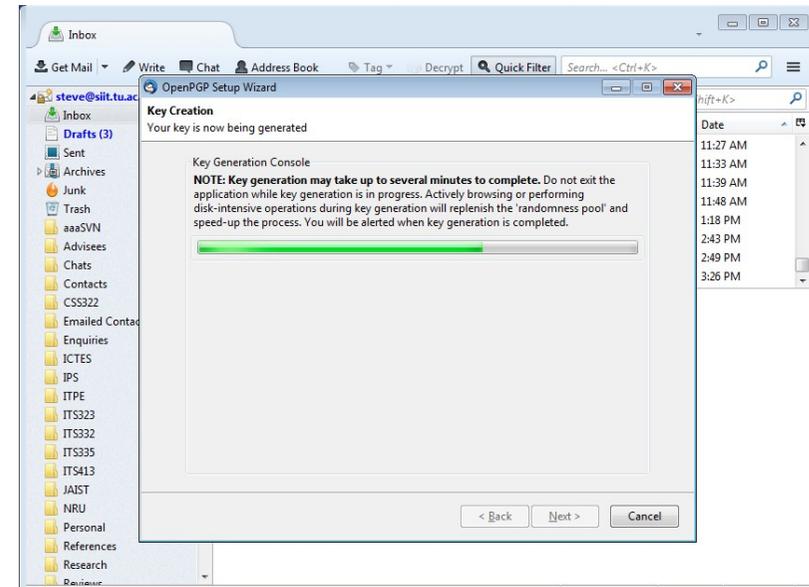# (Windows Only) Install GPG4Win

Install Enigmail Add-on

OpenPGP Setup Wizard
Sign by default: No

OpenPGP Setup Wizard
Generate your keypair

Exchange Keys

- Upload to Key Server
  - Unfortunately SIIT blocks the port used for upload
- Email Public Key to Friends
  - Manually confirm that correct key
  - ID or Fingerprint