Homework 04

Mail System

Architecture

Mail Server

domain.tld

sub.domain.tld

Internet

Users
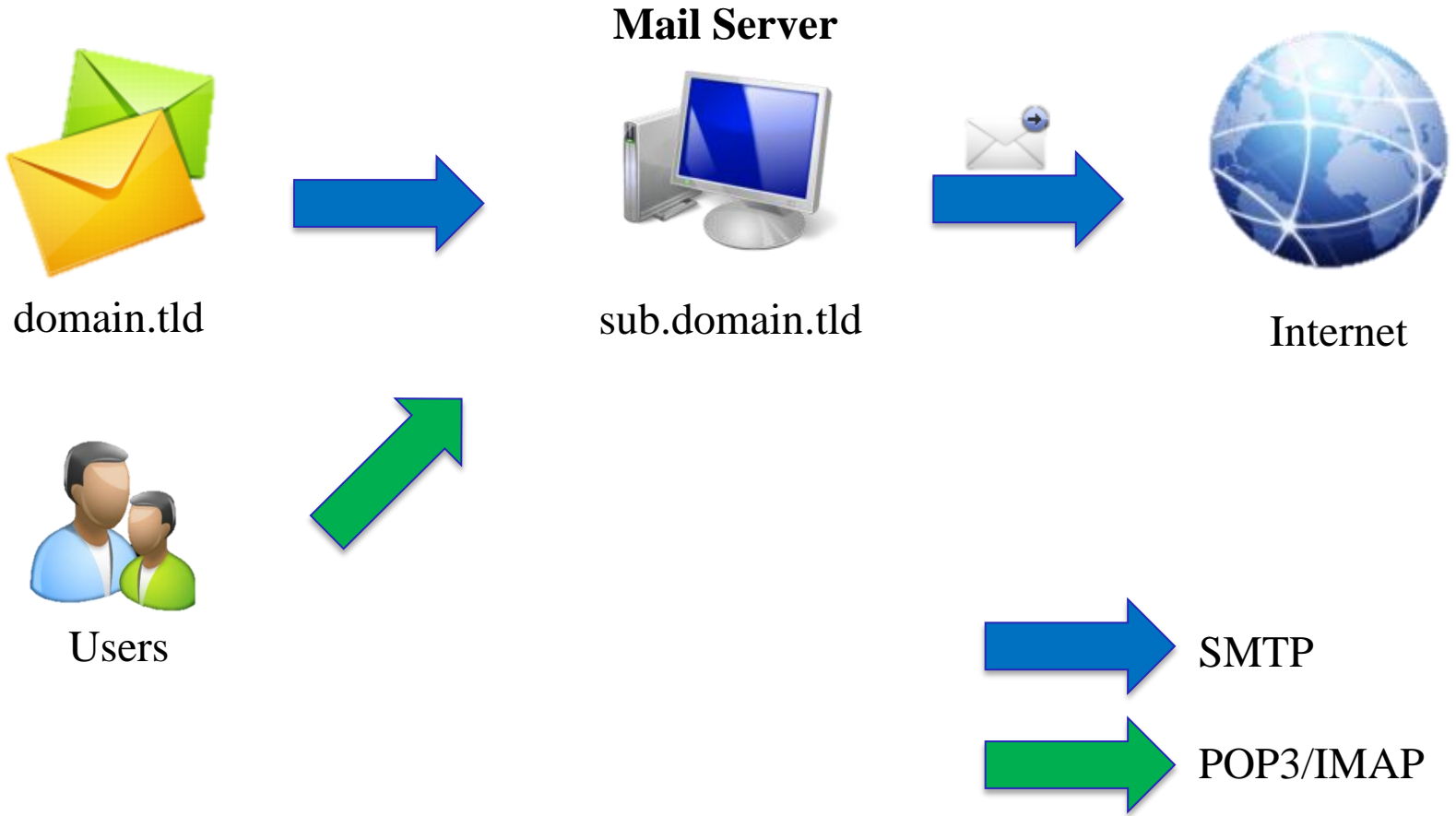
SMTP

POP3/IMAP

Requirement (1/4)

❑ Get you own domain

- http://nctucs.net

- Add a MX record for your mail server

❑ Build a mail system

- Anti-spam

- Anti-virus

❑ SMTP Server

- Postfix

- SASL Authentication

- SSL and TLS support
    - ➢ SMTPs

Requirement (2/4)

❑ POP3/IMAP Server

- Dovecot
- SSL and TLS support
  - ➢ POP3s/IMAPs

❑ MTA filter

- Amavisd-new
  - ➢ SpamAssassin
  - ➢ ClamAV

❑ MDA filter

- Procmail
- Record all log to /var/log/procmail.log
- Drop the mail whose subject contains keyword " 安安你好"

Requirement (3/4)

❑ Greylisting

- An anti-spam measure
- Postgrey

❑ Transport

- The next-hop destination of nasa.cs.nctu.edu.tw would be nahw4.nctucs.net

❑ Alias

- demo→demo@nasa.cs.nctu.edu.tw

❑ Rewriting

- Redirect user+XYZ@domain.tld to user@domain.tld

❑ Address masquerading

- From user@domain.tld instead of user@sub.domain.tld
- All users except root

Requirement (4/4)

❑ Sender address verification

- Disconnect suspicious SMTP clients
- Deny from dynamic host
  - ➢ For example, 211-76-240-234.dynamic.ntcu.net
- Real-time Blackhole List (RBL)
  - ➢ http://www.spamhaus.org/
- Whitelist
  - ➢ http://www.spamhauswhitelist.com
  - ➢ http://www.dnswl.org/

❑ DKIM signature and verification

❑ SPF record and check

- sid-milter
- A SPF record for your server
  - ➢ http://www.mailradar.com/spf/

Bonus – Web-based interface

❑ Webmail

- Horde
- Roundcube
- Squirrelmail

Hand-in

❑ Due
- 6/12

❑ Demo
- TBA