# Homework #02
# FTP Service

Announce: 2008/10/14
Due: 2008/10/21

# Choices of FTPd in FreeBSD

- Included in base system
  - ftpd
    - /usr/libexec/ftpd
  - lukemftpd
    - /usr/libexec/lukemftpd
- In ports collections
  - Pure-FTPd
    - ftp/pure-ftpd
  - ProFTPD
    - ftp/proftpd
  - etc.

# Requirement

- Install Pure-FTPd or ProFTPD
- Support Anonymous clients
  - could DOWNLOAD files inside /home/anonyftp
  - A special propery applying to /home/anonyftp/upload, clients could UPLOAD but NOT DOWNLOAD files
- Anonymous clients are NOT allowed to do DELETE operation
- Hint:
  - Pure-FTPd: AntiWarez
  - Pro-FTPd: AnonRequirePassword

# Requirement

- Create a system user "sysadm"
  - With password of your school ID
  - Could login by SSH
  - CHROOTED in its HOME path ˜sysadm. (default is /home/sysadm/)
  - only user "sysadm" could access anonymous directory by accessing ˜sysadm/anony/.
- Create a virtual user "vsysadm"
  - allowed to only download files in ˜sysadm/, including subdirectiries and files included.
- Hint:
  - Pure-FTPd: using PureDB & purepw
  - Pro-FTPd: using ftpasswd

# Requirement

- Create a directory ~sysadm/hide
  - Which could access by listing
  - Its sub-dirs will hide from FTP listing
  - Its sub-dirs can be accessed while directly enter the directory name
  - Hint:
    - Pure-FTPd: setting perm of hidden dir
- Access anonymous space
  - Make ONLY user "sysadm" could access anonymous dir /home/anonyftp/ by accessing ~sysadm/anony/
  - "vsysadm" is disallowed to access.
  - Hint:
    - Pure-FTPd : using group permission to separate
    - Pro-FTPd : Directory & Limit

# Requirement

- Put your FTP server configuration file and log file to ˜sysadm/etc/ with file names "conf" & "log" relatively. (these files should be real-time updated)
- Hint:
  - linking

# Requirement(Option)

- UTF-8 Support
  - RFC2640 - Internationalization of the File Transfer Protocol
  - Hint:
    - Pure-FTPd: FileSystemCharset, ClientCharset
- Building a statistics web
  - Modlogan
  - Or any other tools could satisfy our requirement