



# System Administration HW3

- File System Server

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weicc

# FTP

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- ❑ Install a FTP server for FreeBSD
  - pure-FTPd: `/usr/ports/ftp/pureftpd/`
  
- ❑ Settings
  1. Anonymous Login
    - ❑ Chrooted (`/home/ftp` is your root directory)
    - ❑ `/home/ftp/public` **download**
    - ❑ `/home/ftp/upload` **upload & mkdir but no download or delete**
    - ❑ Hidden directory `/home/ftp/hidden`
      - There is a directory called “treasure” inside
      - Client can’t list in `/home/ftp/hidden/` but can in `hidden/treasure`

# FTP

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- ❑ Settings (cont'd)
  2. Create a system user “sysadm” (2%)
    - ❑ **Must FTP over TLS**
    - ❑ Could login by **ssh**
    - ❑ Password is your student id
  
  3. Create a virtual user “ftp-vip”
    - ❑ **Must FTP over TLS**
    - ❑ Chrooted (*/home/ftp* is your root directory)
    - ❑ Password is your student-id
    - ❑ Full access to */home/ftp*
    - ❑ Hidden directory is visible to ftp-vip

# Samba

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## ❑ Install Samba

- */usr/ports/net/sambaXX*

## ❑ Share a directory on FreeBSD as normal Windows folders

- Use [/home/ftp/upload](#)
- **Samba** user can upload files on FreeBSD folder but only **ftp-vip** owner can read/write files.
- **sysadm** can read/write all files
- **Anonymous** account only could browse
- .exe .bin .vbs could not upload
- There are four users in this case

# ZFS

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- Do zfs snapshot
- Do zfs rollback
- Set compression
- Reboot and everything is fine (zfs still mount)
  
- Requirement
  - Create ZFS storage and mount on /home/ftp
  - We only check you used the zfs rollback & zfs snapshot

# How to hand in

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❑ DEMO

❑ Port Forwarding

- Host → NAT Port Forwarding → VM → FTP Server, etc

# Deadline

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- 2017/11/9 22:00
- You do not need to submit anything

# Help

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- ❑ Email [ta@nasa.cs.nctu.edu.tw](mailto:ta@nasa.cs.nctu.edu.tw)
- ❑ Goto CSCC to ask professional 3F!