



# System Administration HW2

## - File System Server

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# FTP

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## Install a FTP server for FreeBSD

- Pure-FTPd: */usr/ports/ftp/pure-ftpd/*
- ProFTPD: */usr/ports/ftp/proftpd/*

## Settings

### 1. Anonymous Login

- Chrooted (*/home/ftp* is your root directory)
- Can **download** from */home/ftp/public*
- Can **upload & mkdir** from */home/ftp/upload*
- Can't **delete** from */home/ftp/upload*
- Can only download the files which owner isn't "ftp"*
- 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 virtual user “ftp-vip”

- Chrooted (*/home/ftp* is your root directory)
- Password is your student-id
- Can login from 140.113.17.225 & your ip only
- Full access to */home/ftp*
- Hidden directory is visible to ftp-vip

### 3. Create a system user “sysadm” (2%)

- Could connect by sftp, ftp, ftpes.
- Password is your student id
- Permission is same as ftp-vip.

### 4. Your ftp server should support **ftp over TLS**

# Samba

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## Install Samba

- `/usr/ports/net/samba36`

## Location

- Samba share `/home/ftp/public` to windows
- Mount windows directory at `/home/ftp/windows`

## You should create at least 4 account.

## Admin

- full access ( read, download, delete, rename, mkdir, upload ) to all files and directory

## Guest

- Can only list the files and directory.
- Can't perform ( read, download, delete, rename, mkdir, upload ) to all files and directory

# Samba

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## ❑ Test1

- Can ( read, rename, delete, download) to Test1's files.
- Can mkdir.
- Can upload files to Test1's directory and root directory /home/ftp/public/
- Can't do ( read, rename, delete, download) to others files and directory.

## ❑ Test2

- Can ( read, rename, delete, download) to Test2's files.
- Can mkdir.
- Can upload files to Test2's directory and root directory /home/ftp/public/
- Can't do ( read, rename, delete, download) to others files and directory.

# ZFS

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- ZFS on /home/ftp
- Create a zfs file system with mirror
- Do zfs snapshot
- Do zfs rollback
- Set compression
- Reboot and everything is fine (zfs still mount)

# How to hand in

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- Demo on EC321
- See our Demo list.

# Deadline

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- 2013/10/30 23:59
- Demo: 20min
- You do not need to submit anything



# Help

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- ❑ IRC channel #nctuNASA on freenode
- ❑ Newsgroup cs.course.sysadmin
- ❑ BBS bs2.to board CS-SysAdmin
- ❑ Email ta@nasa.cs.nctu.edu.tw
- ❑ Goto CSCC to ask professional 3F!
- ❑ E3 discussion group.