System Administration HW2

- File System Server

FTP

- Install a FTP server for FreeBSD
 - Pure-FTPd: /usr/ports/ftp/pure-ftpd
 - ProFTPD: /usr/ports/ftp/proftpd
- ☐ Settings
 - 1. Anonymous Login
 - 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

- ☐ 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"
 - Could login by ssh
 - Password is your student id
 - ☐ Permission is same as ftp-vip
 - 4. Your ftp server should support FTP over TLS
 - 5. All accounts are chrooted (/home/ftp is the root directory)

Samba

- ☐ 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 accounts
- ☐ Admin
 - Full access (read, download, delete, rename, mkdir, upload) to all files and directories
- ☐ Guest
 - Can only list the files and directories
 - Can't perform (read, download, delete, rename, mkdir, upload) to all files and directories

Samba

☐ 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 other files and directories

☐ Test2

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

ZFS

- ☐ 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 mounted)

Reminder

- ☐ Demo with root is not allowed
- ☐ Please use sudo
 - /usr/ports/security/sudo
- ☐ File/directory permissions are important
 - Owner, group, other
 - Read, write, execute
 - Set UID, set GID, sticky bit
- ☐ Setting port forwarding to allow your services to be accessible over the Internet

Deadline

- ☐ Demo sheet will be available next week
- \Box Demo week: $10/27 \sim 10/31$

Need Help?

- ☐ 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!