FTP, File and Print Server

FTP Server

- 1. To enable anonymous user (in RHEL, it will be enabled by default)
 - Nope: The root directory of anonymous user /var/ftp
 - vi /etc/vsftpd/vsftpd.conf

anonymous_enable=YES

[Save with Esc :wq]

#restart service with following command

service vsftpd start

2. Allow real user's ftp login (for deny change local_enable=NO; by default it will be YES) vi /etc/vsftpd/vsftpd.conf

local_enable=YES

3. Denying selected real users' ftp login vi /etc/vsftpd.ftpusers

user1

user2

4. Allowing selected users from login to ftp server. (by default userlist_deny will be NO) vi /etc/vsftpd/vsftpd.conf

userlist_enable=YES

userlist_deny=NO

- 5. To set ftp banner (Banner will be displayed on logging in to ftp server) ftpd_banner=welcome to ftp.cba.com
- 6. Allowing ftp users to upload (practically we don't allow anonymous user to upload file) anon_upload_enable=YES

chown_uploads=YES

chown_username=cba

anon_umask=077

Lab on Network File service (NFS)

Packages needed:

nfs-utils portmap autofs

Main configuration file:

/etc/exports format: Abs_path_of_dir host(option)

Example:

vi /etc/exports

#to allow sharing /varftp/pub to 192.168.0.0/24 subnet (read/write)

/var/ftp/pub 192.168.0.0/255.255.255.0(rw,sync)

#to allow sharing /backup to any network (read only)

/backup *(ro,sync)

#to allow sharing /backup to any host which name is server (read/write)

/cba server.*(rw,sync)

#to allow sharing /shiba to any host which name is server.cba.com domain
#where X can be any character. (read/write)

/shiba server?.cba.com(rw,sync)

In client Machine

showmount -e <nfs_server>

mount serverip:/var/ftp/pub /localpub

#where serverip is the ipaddress of server and localpub is a directory in local

#machine (client)

Permanent mounting on boot automatically

vi /etc/fstab

serverip:/var/ftp/pub/localpub nfs deafules 0 0

#where serverip is the ipaddress of server and localpub is a directory in

#local machine (client)

Lab on Samba

Daemon: smbd and nmbd script: /etc/init.d/smb Configuration files: /etc/samba/* Tools: system-config-samba, testparm Main configuration file: /etc/samba/smb.conf

Sections of smb.conf

smb.conf: is styled after the .ini file format and is split into different [] sections

Targeted Audience: Students of Network and System Administration CSIT (TU), System Administration (Elective) BE Computer/BIT (Purbanchal University), MCS 22: Operating System Concepts and Network Management IGNOU, MCS 52: Network Administration and Programming, IGNOU Shiba R. Tamrakar (<u>shibaratna@gmail.com</u>), <u>www.shiba.com.np</u> RHCE, CEHv7, DB2 Associate, **F**<u>acebook</u>

> [global] : section for server generic or global settings [homes] : used to grant some or all users to their home directories [printers]:defines printer resources and services Example: to share a directory named myshared_data to students group, add the following line at the end of /etc/samba/smb.conf [myshared_data] comment=share directory path = /home/cba/myshared_data public = no write list = @students

printable = no browseable = yes

2. Example to share a printer named testprinter to user cba and shiba, add the following line at the end of smb.conf

[sharedprinter]

comment=share printer path = /var/spool/ testprinter public = no valid users = cba shiba printable = yes

Note: there should be a directory named shared ptr in /var/spool, if don't exist create it.

Adding user to samba (the users cba and shiba should be local users of Linux)

smbpasswd -a cba smbpasswd -a shiba #To restart the samba service service smb restart

Samba clients

- 1. To view the shared resources in particular host
 - smbclient -L hostname
- 2. To copy a file in smb server to current directory

smbclient //machine/service -U cba

- >cd directory
- >get filename
- 3. Also, mount command can be used
 - mount //machine/service /smbclientdirecotry

Printer Configuration with CUPS

Configuring and using printer Configuration files: /etc/cups/cupsd.conf /etc/cups/printers.conf Command to configure printer

system-configure-printer

Targeted Audience: Students of Network and System Administration CSIT (TU), System Administration (Elective) BE Computer/BIT (Purbanchal University), MCS 22: Operating System Concepts and Network Management IGNOU, MCS 52: Network Administration and Programming, IGNOU Web interface for configuration http://localhost:631 To authenticate user must be the member of system Group (sys by default) listed in /etc/cupscupsd.conf

Further Study:

https://www.centos.org/docs/5/html/Deployment Guide-en-US/s1-nfs-serverexport.html

https://www.centos.org/docs/5/html/Deployment Guide-en-US/s1-sambaconfiguring.html

https://www.centos.org/docs/5/html/Deployment Guide-en-US/s1-ftp-vsftpd-conf.html

https://www.centos.org/docs/5/html/Deployment Guide-en-US/ch-printing.html