SPECIFICATION - FTP

FTP server

We use WU-FTPD (http://www.wu-ftpd.org) as our FTP server.

PREREQUISITES

1. IP address of the FTP server.
2. Domain name of the primary FTP server.

REQUIRED KNOWNLEDGE

1. Concept on UNIX users: differentiation of root and normal user.
2. Concept on IP address and domain name.
3. Confidence in working on shell and using text editor such as vi.

INTRODUCTION

You are required to setup a FTP server for your organization.

The FTP server should provide the following services:

1. Anonymous FTP - downloading files
2. Anonymous FTP - uploading files

CONFIGURATION

Make sure you have the required software installed.

As root, run

```
# rpm -q anonftp wu-ftpd
```

If they are present, their names and the versions will be shown.

CONFIGURATION - ANONYMOUS FTP - DOWNLOADING

1. Make sure that "`ftp`" is a valid user in your system.

   Run the command below to confirm:

   ```
   # grep '^ftp:'  /etc/passwd
   ```

   You should be able to see

   `ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin`

   or similar, otherwise run this command to add user "`ftp`" to your system:

   ```
   # groupadd -g 50 ftp
   # useradd -u 14 -g ftp -d /var/ftp -s /sbin/nologin -c "FTP User" ftp
   # pwconv
   ```

2. Make sure that no "`ftp`" nor "`anonymous`" appears in `/etc/ftpusers`.

   Run this command to confirm:

   ```
   # egrep '^ftp$|^anonymous$' /etc/ftpusers
   ```

3. If "`ftp`" or "`anonymous`" is displayed, edit the file `/etc/ftpusers` to remove lines starting with "`ftp`" and "`anonymous`".

4. Add the following line to the file `/etc/hosts.allow`. This is to allow everyone to use your FTP server.

   `in.ftpd:  ALL`

CONFIGURATION - ANONYMOUS FTP - UPLOADING

Make sure you have done the steps in CONFIGURATION - ANONYMOUS FTP - DOWNLOADING.

1. Create a directory for uploaded files.

   As root, run

   ```
   # mkdir  /var/ftp/pub/incoming    # chmod g+w  /var/ftp/pub/incoming
   ```

2. Edit `/etc/ftpaccess` to allow uploading files.

   As root, append the following line (without quote) to `/etc/ftpaccess`.

   `upload  /var/ftp  /pub/incoming  yes  ftp  ftp  0440  nodirs`

HOW TO ENABLE FTP SERVER

1. As root, run the following command ONCE. The FTP server will start on every reboot.

   ```
   # chkconfig wu-ftpd on
   ```

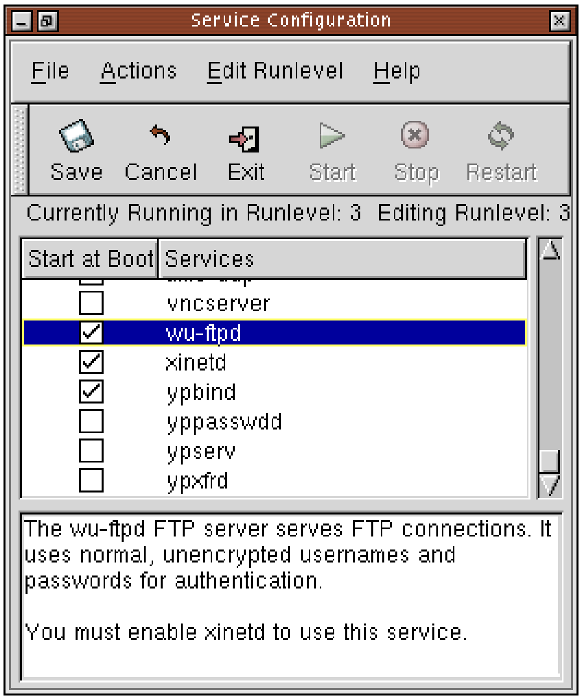

Figure 1: Enable FTP service using RedHat serviceconf

2. Or as root, run serviceconf, check "**ftp**" checkbox, press "**Save**" button (see Figure: 1).

   ```
   # serviceconf
   ```

   If you want to start the FTP server now, press **Start** button.

   Then close **serviceconf** by selecting **File** and then **Quit**.

TEST YOUR FTP SERVER

1. Open a web browser, type **mozilla**

   ```
   # mozilla
   ```

   or press the red dragon icon on the panel at the bottom of your screen.

2. In the location bar, enter your web site's URL (see Figure: 2).

   ```
   ftp://ftp.keep-similing.org
   ```

   or

   ```
   ftp://10.1.1.1
   ```

   (ATTENTION: Unless your organizations' DNS servers are ready, you can only used IP address.)

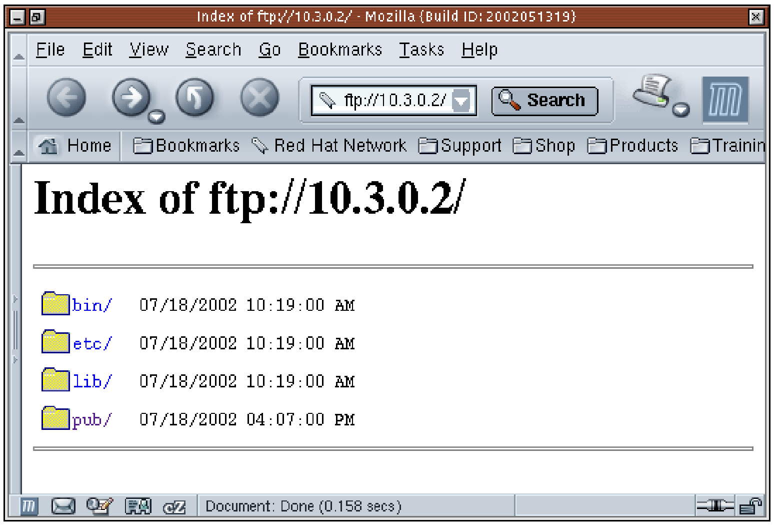

Figure 2: A successful FTP connection

POPULATE YOUR ORGANIZATION'S FTP SITE

The purpose of FTP service is to allows people to download or upload files. You may put some files into your FTP service and ask your partners to get them.

The files are commonly stored in the `/pub` directory. Follow the steps below to learn how to put files into FTP server for people to download.

1. **Copy files**

   Suppose you have a file called `proposal.txt` (Create one if you don't have it).

   Copy the file to FTP server directory `/var/ftp/pub`.

   As root, run

   ```
   # cp proposal.txt /var/ftp/pub
   ```

2. **Set permission**

   Set the correct file permission.

   As root, run

   ```
   # chown   root:ftp   /var/ftp/pub/proposal.txt
   # chmod   440   /var/ftp/pub/proposal.txt
   ```

   ATTENTION: This is an example only. Develop your own FTP site!!!

FILES

`/etc/ftpaccess`	FTP configuration file
`/etc/ftphosts`	FTPD individual user host access file
`/etc/ftpusers`	List of users that may not log in via the FTP daemon
`/usr/bin/ftpcount`	Show current number of users
`/usr/sbin/ftprestart`	Restart FTP server
`/usr/sbin/ftpshut`	Shutdown FTP server
`/usr/sbin/in.ftpd`	FTP server
`/usr/sbin/in.wuftpd`	FTP server
`/usr/sbin/wu.ftpd`	FTP server

RPMS

`wu-ftpd`	WU-FTPD FTP server
`anonftp`	Files required for enabling anonymous ftp
`ftp`	FTP client

SEE

`http://www.landfield.com/wu-ftpd/docs/anonymous-ftp-faq.html`
Setting up anonymous FTP

Have fun!

-*- spec-ftp -*-