

Using GadgetPC as a File Server

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Overview

GadgetPC can be used as a light-duty file server.

GadgetPC Linux has a built-in web server (httpd) based on the popular open-source Apache web server.

Parts Required

- 1 x GadgetPC
- 1 x ADP-5V1A-MiniUSB Power Adapter
- 1 x DUB-E100 Ethernet card
- 1 x Ethernet Cable
- 1 x USB Flash Drive running Linux (optional)

Connect the various components as shown in *Figure 1*.

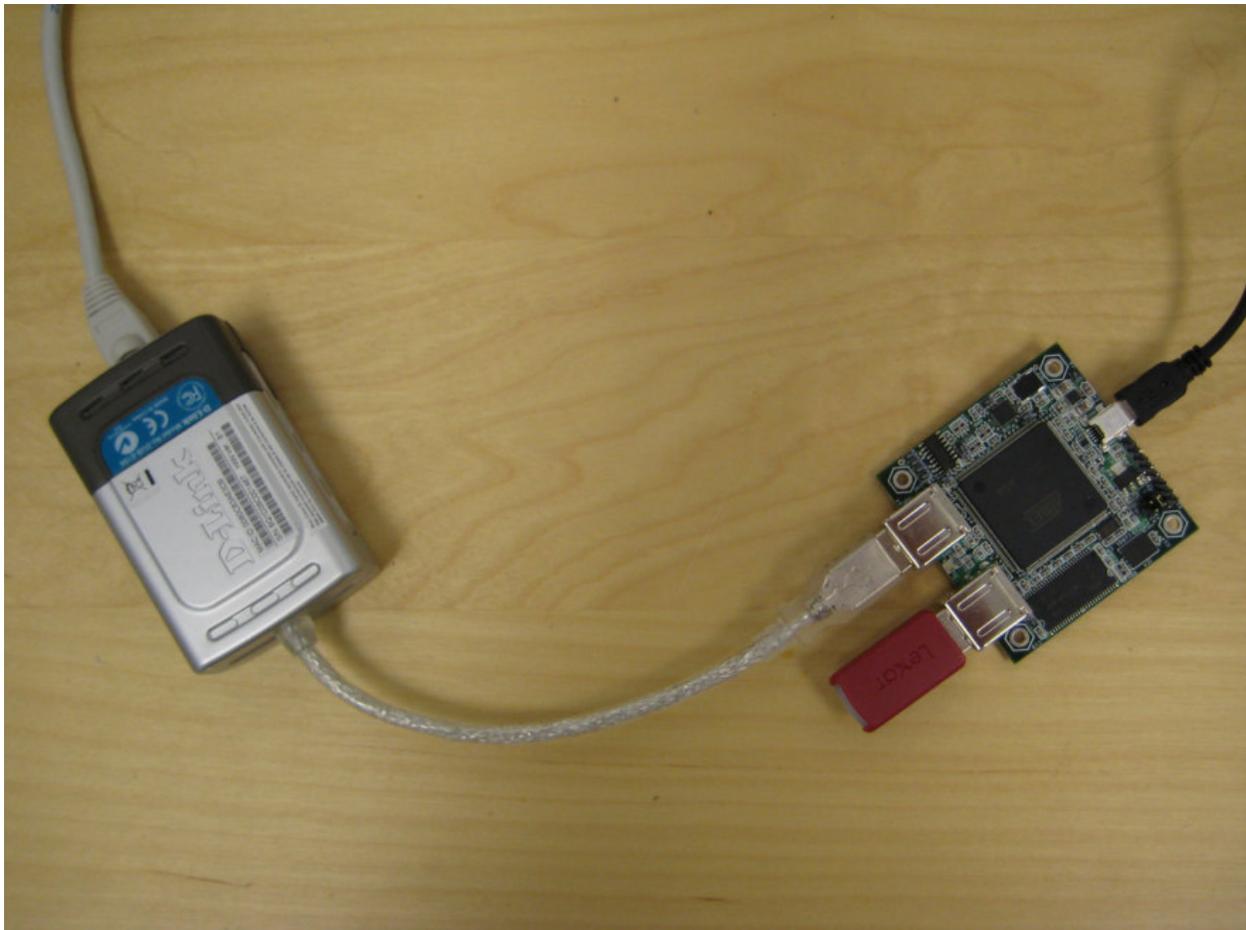
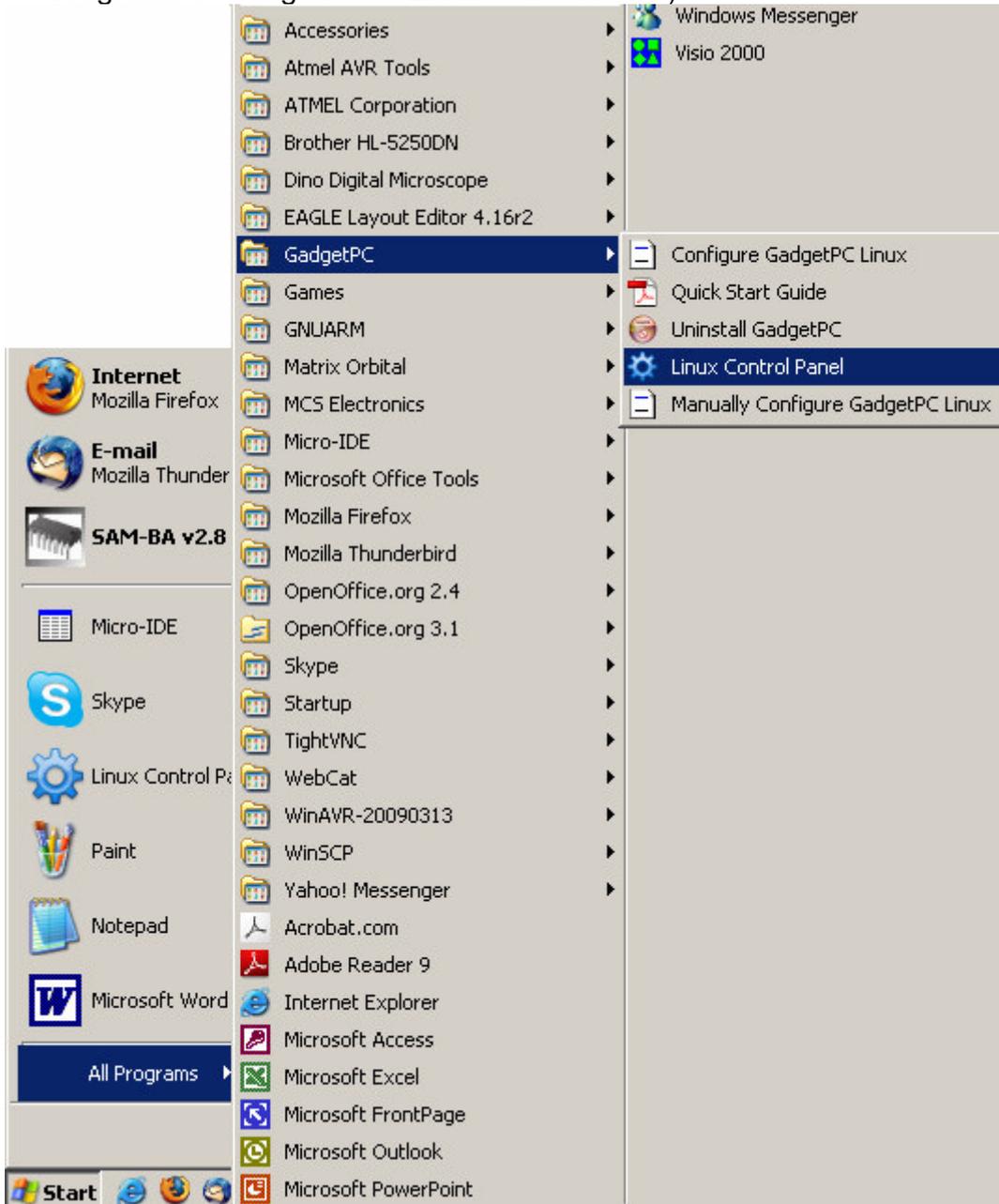


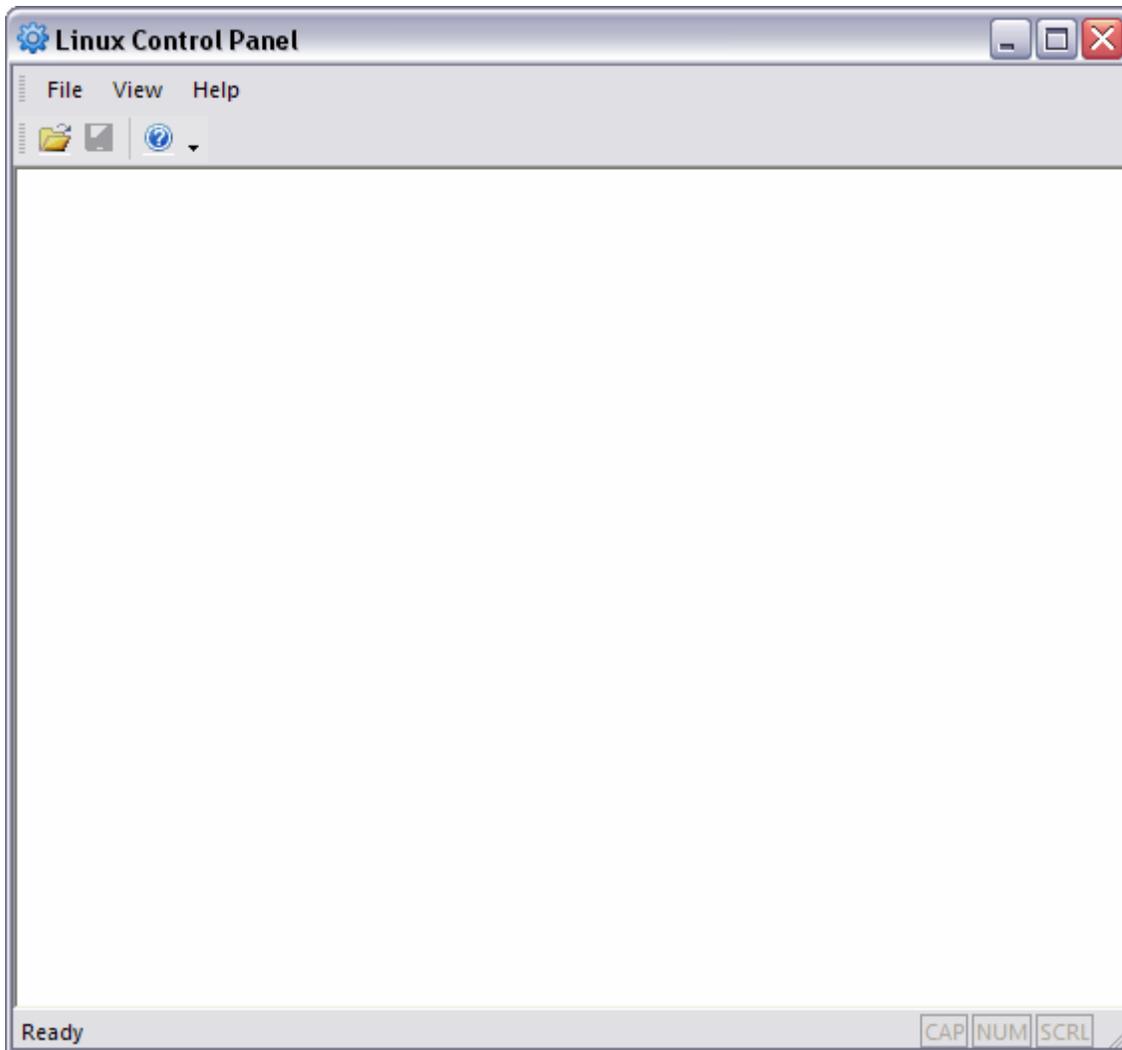
Figure 1.

Software Setup

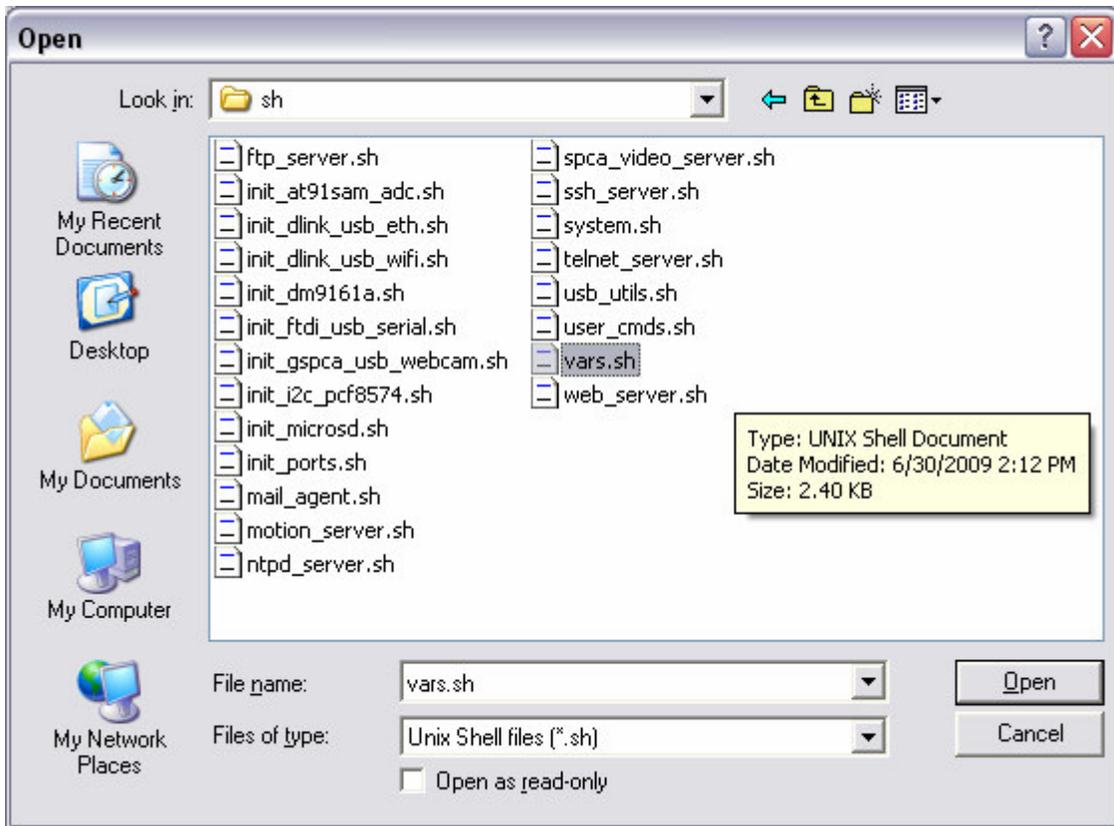
We need to edit the Linux vars.sh file to enable certain configuration options.

- 1) Open **Linux Control Panel** that comes with GadgetPC setup. (Start Menu -> All Programs -> GadgetPC -> Linux Control Panel)

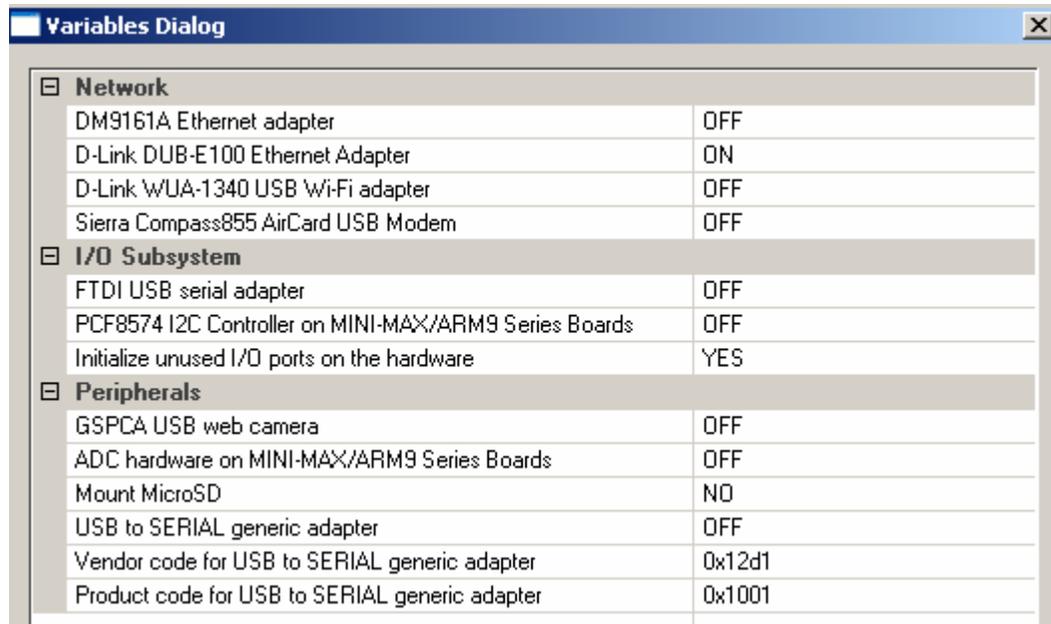




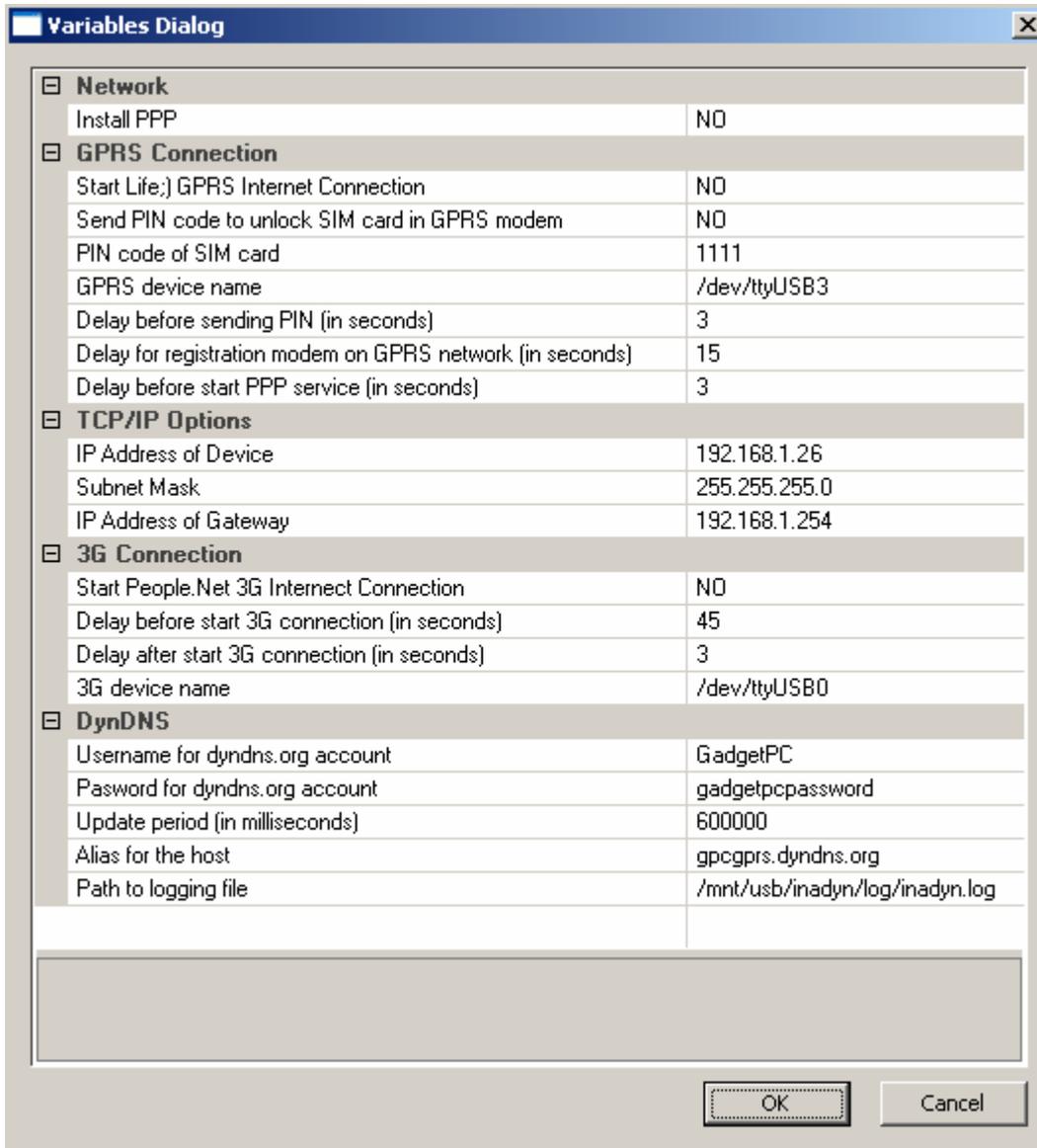
2) Click File -> Open. By default, program will start from folder where GadgetPC was installed. Go to **sh** folder and select **vars.sh** file.



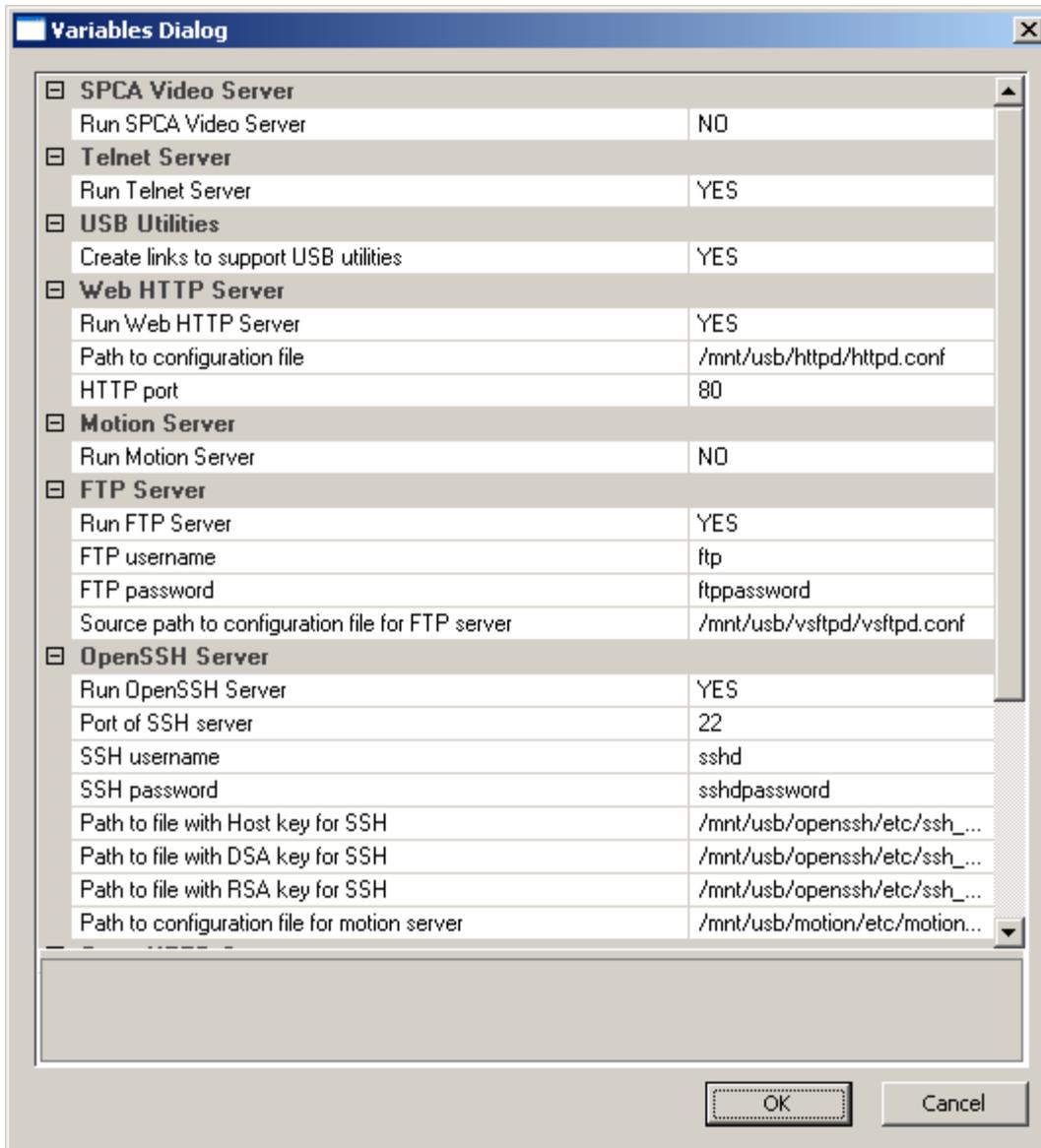
3) Double-click **Hardware and Peripherals** and enable **DUB-E100** (Turned ON).



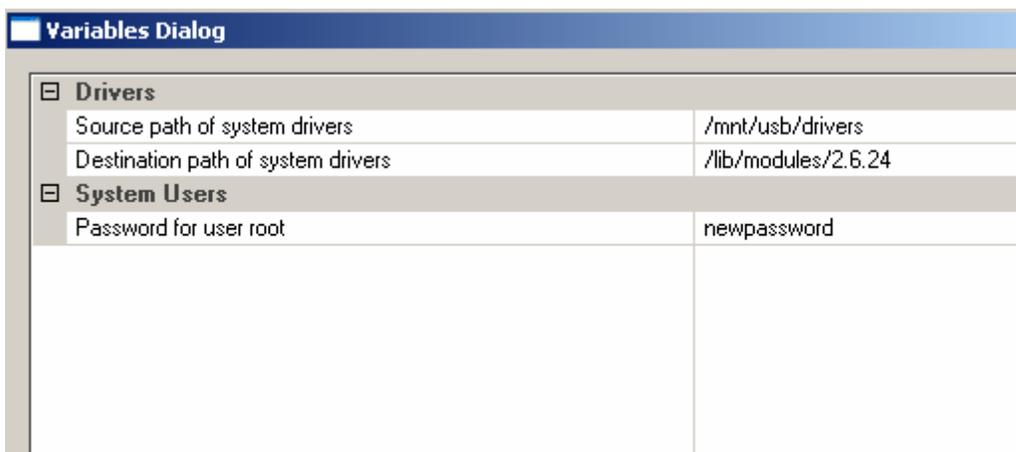
4) Double-click **Network** and assign an IP address, subnet mask, and gateway IP address under **TCP/IP Options**.



5) Double-click **Software** and enable **Run FTP Server** (set to YES).



6) Double-click **System** and assign a root password.



7) Save the **vars.sh** file.

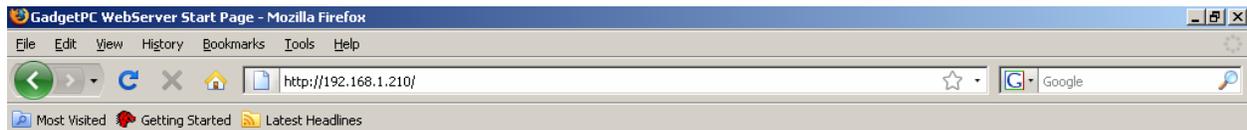
NOTE: Every time you access vars.sh file, you either need to have a temporary copy on your computer so that you can replace the actual copy on the USB Flash Drive or remove the USB Flash Drive from the GadgetPC and insert the USB Flash Drive into the computer for direct editing.

8) Insert the USB Flash drive to GadgetPC.

9) Apply or cycle power to GadgetPC (Turn OFF/ON).

10) After about 30-45 seconds, Linux will boot up and your File Server is ready.

11) You may open a browser and type in your IP to make sure the web interface of the File Server is working.



GadgetPC WebServer Start Page

You should replace this page with your own page. It will be opened when user access your web server.

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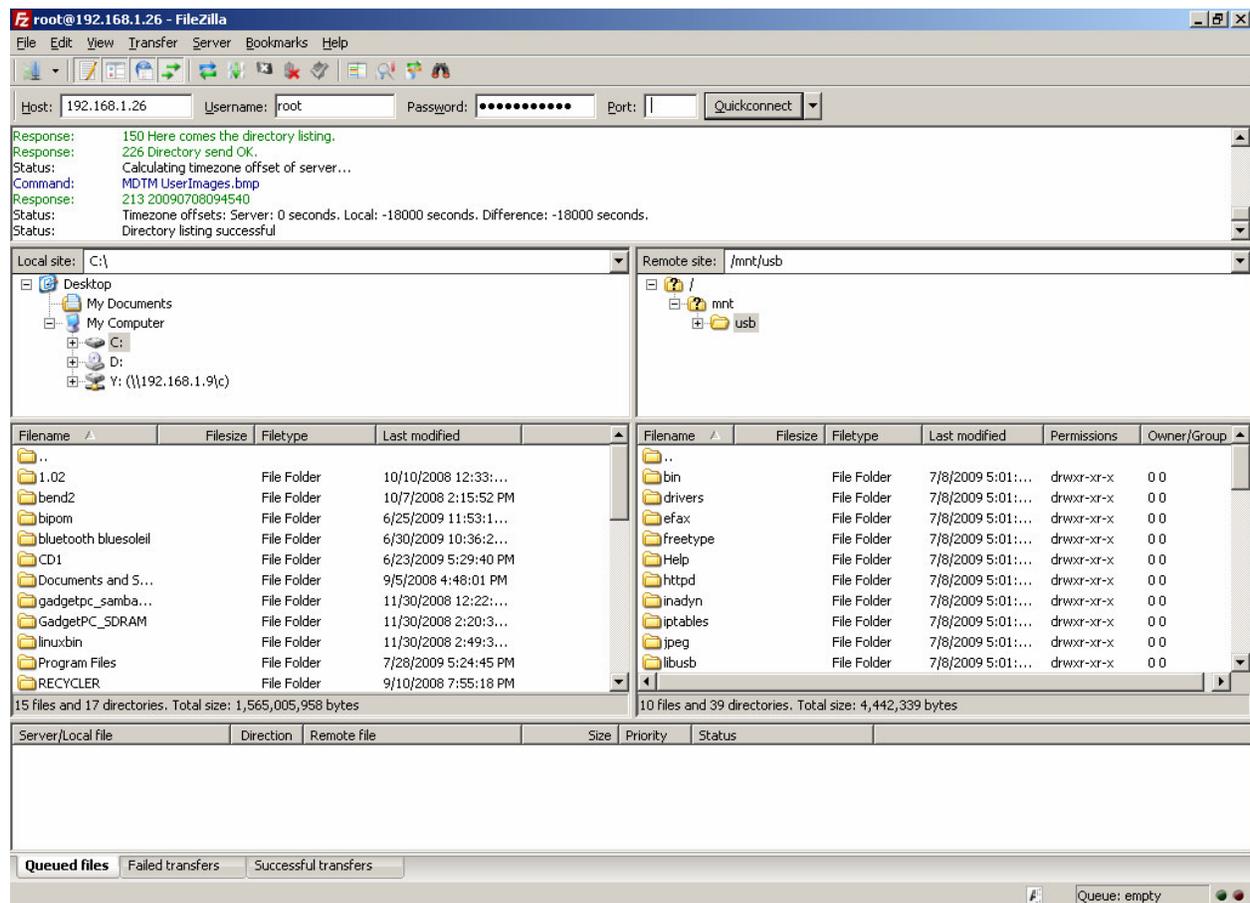
Done

Accessing FTP with FileZilla

1) Download the latest free FileZilla FTP client:

https://www.ohloh.net/projects/filezilla/download?filename=FileZilla_3.2.6.1_win32-setup.exe

2) Start **FileZilla**, specify the **Host** to connect to **FTP** by typing ftp://xxx.xxx.xxx.xxx (where xxx.xxx.xxx.xxx is your IP address you assigned), **Username**, **Password**, and **Port** (default: 21). Then, click **Quickconnect**.

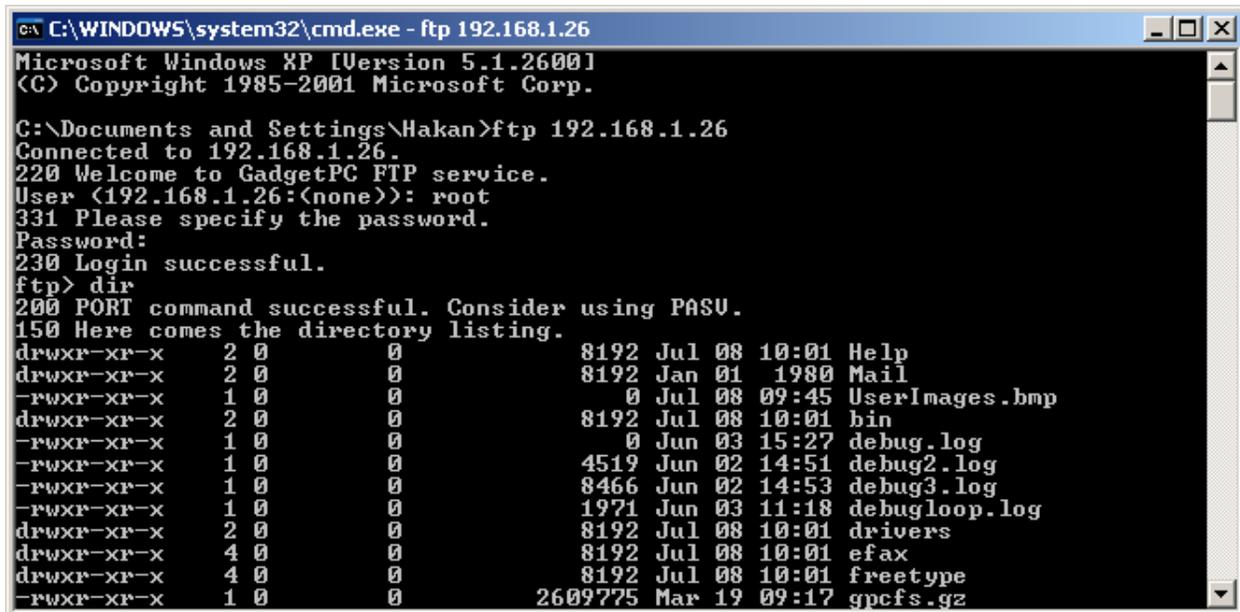


2b) You can also connect with **SFTP** (Secure FTP) via SSH port 22 (optional).

3) You should successfully be connected to GadgetPC FTP service.

Accessing FTP with **Command Line**

- 1) Open **Command Line** (Start menu -> Run -> "cmd").
- 2) Type the following: ftp://xxx.xxx.xxx.xxx where xxx.xxx.xxx.xxx is your IP address you assigned).
- 3) Enter your username and password.



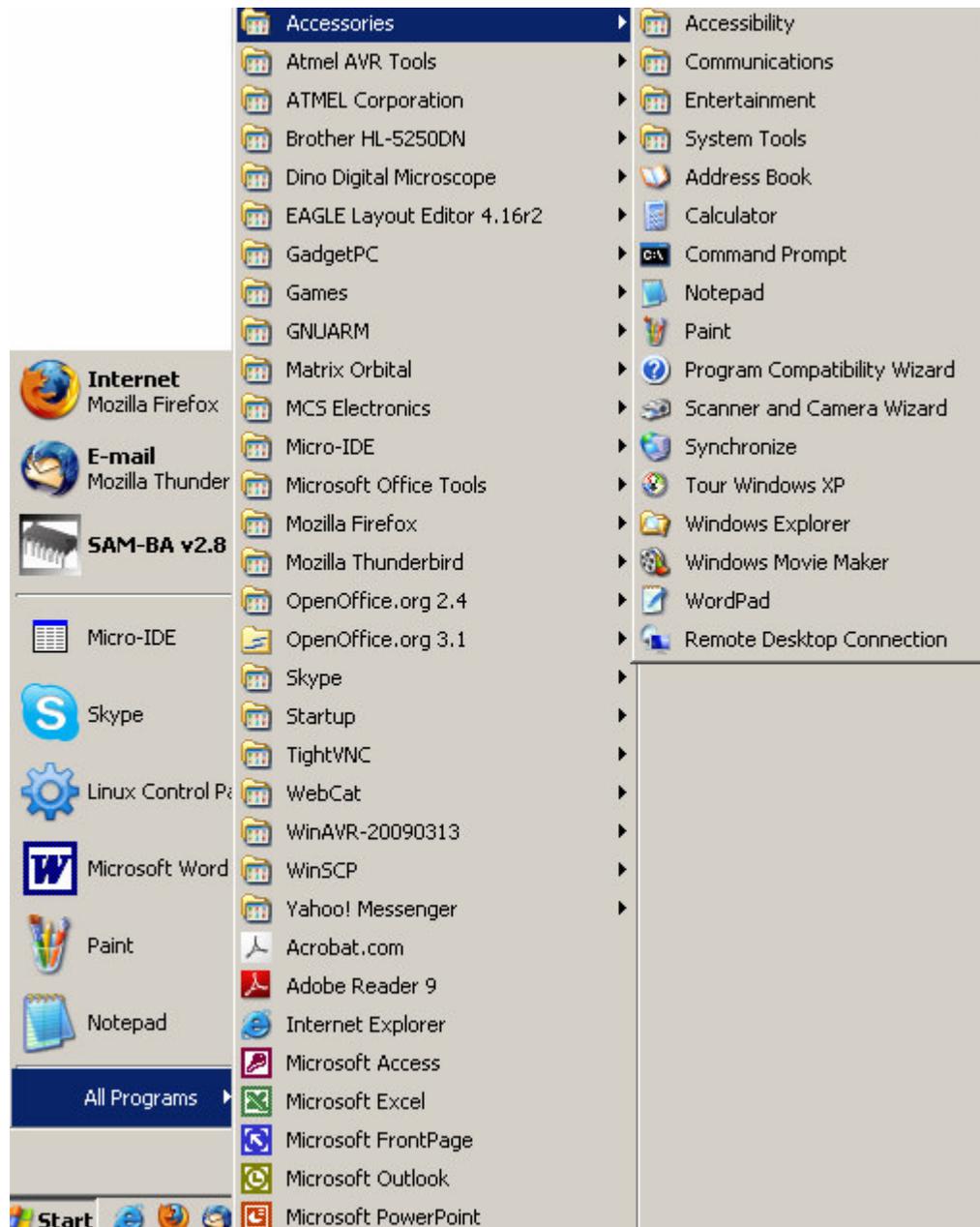
```
C:\WINDOWS\system32\cmd.exe - ftp 192.168.1.26
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Hakan>ftp 192.168.1.26
Connected to 192.168.1.26.
220 Welcome to GadgetPC FTP service.
User (192.168.1.26:(none)): root
331 Please specify the password.
Password:
230 Login successful.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0      0      8192 Jul 08 10:01 Help
drwxr-xr-x  2 0      0      8192 Jan 01 1980 Mail
-rwxr-xr-x  1 0      0           0 Jul 08 09:45 UserImages.bmp
drwxr-xr-x  2 0      0      8192 Jul 08 10:01 bin
-rwxr-xr-x  1 0      0           0 Jun 03 15:27 debug.log
-rwxr-xr-x  1 0      0      4519 Jun 02 14:51 debug2.log
-rwxr-xr-x  1 0      0      8466 Jun 02 14:53 debug3.log
-rwxr-xr-x  1 0      0      1971 Jun 03 11:18 debugloop.log
drwxr-xr-x  2 0      0      8192 Jul 08 10:01 drivers
drwxr-xr-x  4 0      0      8192 Jul 08 10:01 efax
drwxr-xr-x  4 0      0      8192 Jul 08 10:01 freetype
-rwxr-xr-x  1 0      0 2609775 Mar 19 09:17 gpcfs.gz
```

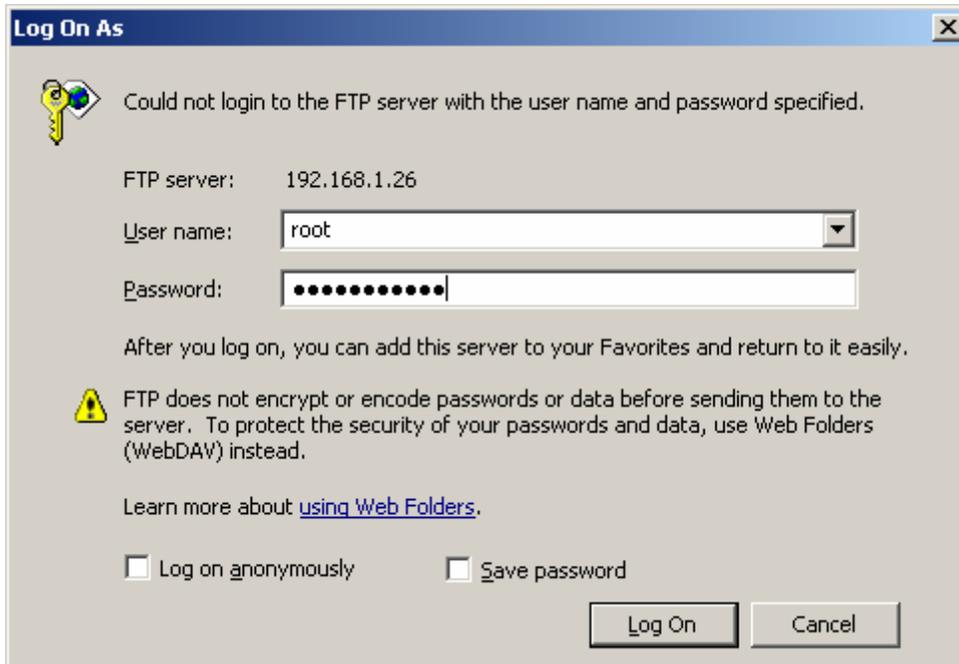
- 4) Type 'dir' to see the directory listing of the GadgetPC (optional).

Accessing FTP with **Windows Explorer**

1) Open **Windows Explorer** (Start Menu -> All Programs -> Accessories -> Windows Explorer).



2) Connect to **FTP** by typing `ftp://root@xxx.xxx.xxx.xxx/` and then entering your username and password.



4) Click **Log On** and you will have access to GadgetPC FTP.

