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## Requirements

First be sure that you have enough memory free. Because of this I describe the installation on SD-cards (/mmc). For sure you can also use your SMBshare-dir. Additionally this procedure will show how to install even the needed ipkg packages on the SD-card.

It is also possible to replace every occurrences of (/mmc) with (/jffs) if you have it enabled.

## Preparation

For ipkg we will need the following directories on the SD-Card:

```
mkdir /mmc/jffs
mkdir /mmc/jffs/tmp
mkdir /mmc/jffs/tmp/ipkg
```

## Installing vsftpd

Installation of vsftpd-Server from [downloads.openwrt.org](http://downloads.openwrt.org)

```
ipkg -d /mmc/jffs install http://URL\_2\_vsftpd
```

Please ensure using the correct URL to the vsftpd-package. Ignore the warnings during ipkg-installation.

## Installing uclibc

Because of not running with the standard-libs of DD-WRT we will install uclibc for use with vsftpd:

```
ipkg -d /mmc/jffs install http://URL\_2\_uclibc
```

Unsure the correct URL to uclibc again!

Installing uclibc

# Config File

For anon login use the following in your vsftpd.conf file. Before you use this realize you will be giving anon login FULL ACCESS

Use **vi /mmc/jffs/etc/vsftpd.conf** to open file

```
anon_mkdir_write_enable=YES
anon_upload_enable=YES
no_anon_password=YES
anon_world_readable_only=NO
# leave this as / needs to be nonwritable
anon_root=/
# you might have to make this dir
secure_chroot_dir=/jffs/var/run/vsftpd
ftp_username=root
nopriv_user=root
background=YES
listen=YES
anonymous_enable=YES
local_enable=YES
write_enable=YES
local_umask=022
check_shell=NO
dirmessage_enable=YES
ftpd_banner=ROUTER
```

If you would like to use root only use the following:

```
# you might have to make this dir
secure_chroot_dir=/jffs/var/run/vsftpd
ftp_username=root
nopriv_user=root
background=YES
listen=YES
anonymous_enable=NO
local_enable=YES
write_enable=YES
local_umask=022
check_shell=NO
dirmessage_enable=YES
ftpd_banner=ROUTER
```

## USER "nobody"

Attention, User name ?nobody? must be put on, otherwise cannot work vsftpd correctly.

User ?nobody? put on:

```
echo "nobody:Password:0:0:User,,,:/mmc:/bin/sh" >> /tmp/etc/passwd
```

(if you are using the onboard memory, replace mmc: by root:)

# Start script for vsftpd

The following script starts vsftpd using the libuclibc:

```
export LD_PRELOAD='/mmc/jffs/lib/libuclibc-0.9.27.so'  
/mmc/jffs/usr/sbin/vsftpd /mmc/jffs/etc/vsftpd.conf  
unset LD_PRELOAD  
env > /dev/null
```

In the second line, the server is started using its config file. Please refer to the [vsftpd manpage](#) to learn more about this.

Save the script in your router (here: /mmc/progs/ftpserver/start).

Don't forget to give the execute privilege (chmod x start).

## Changes to startup section

Please be sure the ftp-server is working properly before changing the startup for the router.

Go to Administration - Commands in the router's config and add the following lines to the startup section :

```
cd /mmc/progs/ftpserver  
./start
```

(there are other ways to use [Startup Scripts](#))

## Firewall settings

To get the FTP-Server enabled from WAN side add the following line to the firewall section:

```
/usr/sbin/iptables -I INPUT 1 -p tcp --dport 21 -j logaccept
```