

EC2x&AG35-QuecOpen

FTP Service Configuration

Application Guide

LTE Standard / Automotive Module Series

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About the Document

History

Revision	Date	Author	Description
1.0	2018-04-02	Mike ZHOU	Initial

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1 Introduction

The FTP service provided inside the module is busboy's own service, which can be started up by command line or inetd service.

```
root@mdm9607-perf:~# ftpd
BusyBox v1.23.1 (2018-02-06 08:15:29 UTC) multi-call binary.

Usage: ftpd [-wvS] [-t N] [-T N] [DIR]

Anonymous FTP server

ftpd should be used as an inetd service.
ftpd's line for inetd.conf:
    21 stream tcp nowait root ftpd ftpd /files/to/serve
It also can be ran from tcpsvd:
    tcpsvd -vE 0.0.0.0 21 ftpd /files/to/serve

-w      Allow upload
-v      Log errors to stderr. -vv: verbose log
-S      Log errors to syslog. -SS: verbose log
-t,-T   Idle and absolute timeouts
DIR     Change root to this directory
```

2 FTP Service

2.1. Shell Command Line Startup

Command line format: `tcpsvd -vE 0.0.0.0 21 ftpd -w /data`

0.0.0.0 stands for IP address, 21 stands for a port; -w parameter means that ftp has upload permission, and /data means FTP directory. The function of this service is to start up ftp, user name is root, and the password is queueutel23.

The specific steps are as shown in the following figure (using the Windows operating system):

- ✓ Start FTP service

```
root@mdm9607-perf:~# tcpsvd -vE 0.0.0.0 21 ftpd -w /data
tcpsvd: listening on 0.0.0.0:21, starting
```

- ✓ Connect FTP Client to service

```
PS C:\Users\Mike\Desktop> ftp 192.168.22.106
Connected to 192.168.22.106.
220 Operation successful
530 Login with USER and PASS
User (192.168.22.106:(none)): root
331 Please specify password
Password:
230 Operation successful
ftp> ls
200 Operation successful
150 Directory listing
802.lavb.txt
alsaucm_test
atfwd_pipe
ipth_dme_urc
psm_aware_cmd
psm_aware_urc
ringtone1.wav
time
voc_svr
226 Operation successful
ftp: 117 bytes received in 0.01Seconds 7.80Kbytes/sec.
ftp>
```

- ✓ Access to the FTP service by a browser



/ 的索引

名称	大小	修改日期
802.1avb.txt	41 B	2018/1/8 下午9:56:00
alsaucm_test	0 B	2018/1/6 上午8:04:00
atfwd_pipe	0 B	2018/1/6 上午8:04:00
ipth_dme_urc	0 B	2018/1/6 上午8:04:00
psm_aware_cmd	0 B	1970/1/1 上午8:00:00
psm_aware_urc	0 B	2018/1/6 上午8:04:00
ringtone1.wav	973 kB	2018/1/6 上午8:04:00
time/		1970/1/1 上午8:00:00
voc_svr	0 B	2018/1/6 上午8:04:00

2.2. init.d Service Startup

The module does not have an integrated ftp service startup script by default. It needs to upload the service file to the /etc/init.d directory (or to the /etc/init.d directory in the SDK rootfs directory).

Start the service file: (see attachment)

Steps:

- 1) Upload start_ftp_le file to /etc/init.d directory
- 2) Execute `/etc/init.d/start_ftp_le start` in the module shell environment to start FTP service
- 3) Execute `/etc/init.d/start_ftp_le stop` in the module shell environment to close FTP service

```
root@mdm9607-perf:~#  
root@mdm9607-perf:~# /etc/init.d/start_ftp_le start  
Starting Busybox FTP Server: done  
root@mdm9607-perf:~# /etc/init.d/start_ftp_le stop  
Stopping Busybox FTP Server: stopped /bin/tcpsvd (pid 2152)  
done  
root@mdm9607-perf:~#
```

2.3. Inetd Startup

- ✓ Modify the `/etc/init.d/inetd.busybox` file inside the module (see attachment).

- ✓ Add configuration file content of the */etc/inetd.conf* to the next line:
- ```
21 stream tcp nowait root ftpd ftpd -w /data
```

Parameter description is as follow:

**21**: means ftp port number

**/data**: means the directory operated by ftp

Service Start Method:

Inputting */etc/init.d/inetd.busybox start* in the shell command line to start service.

Inputting */etc/init.d/inetd.busybox stop* in the shell command line to close service.

```
root@mdm9607-perf:~# /etc/init.d/inetd.busybox start
Starting internet superserver: inetd.
root@mdm9607-perf:~# /etc/init.d/inetd.busybox stop
Stopping internet superserver: inetd.
root@mdm9607-perf:~# █
```