JMS Manual

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1. Introduction

1.1 Project

This server is a lightweight SMTP/POP3 java mail server. We called JPXX Mail Server (JMS, JMS not Java Mail Server). JMS is built upon standards. The mail goal of JMS was flexibility. A new feature could be added by simply creating a new class implementing the required interface. The server assumes each of these run in their own threads. At startup the mail server starts the threads then main exits. It supports two or more domains.

1.2 Download

You can download the latest version of JMS in the site at https://sourceforge.net/projects/jpxx/. Here you can also find further information on JMS.

1.3 System Requirements

Please ensure your computer system meets the following requirements, otherwise JMS may not work properly:

Intel/AMD based PC with Windows 2000/XP/Server 2003 operating system.

32MB (or more) of RAM
10GB (or more) hard disk is recommended
Internet connection is required.

2. Installation

To install and run this mail server, complete the following steps:

1. Install a Java JDK or JRE **version 1.6** or greater (http://java.sun.com).

2. Expand the distribution archive.

3. Modify the included script files for your local file system (if neccessary).

3. Command for manager

3.1 The command for mail server manager

help Manager get help from JMS.
quit Quit server. Server will be closed by force.

jms -restart Restart JMS.
jms -start Start JMS.
jms -stop Stop JMS and quit.

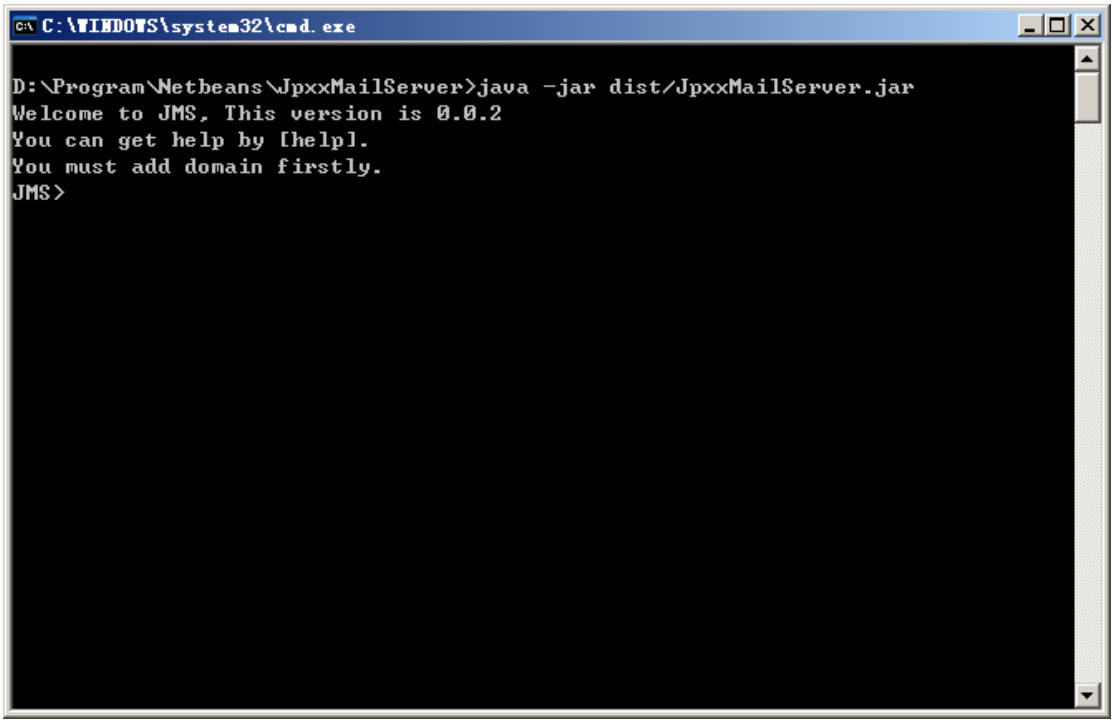
user -add user password [domain] [mailboxsize] Add a new user.
user -delete user [domain] Delete an exit user.

domain -add domain Add a new domain to Server.
domain -delete domain Delete a domain.

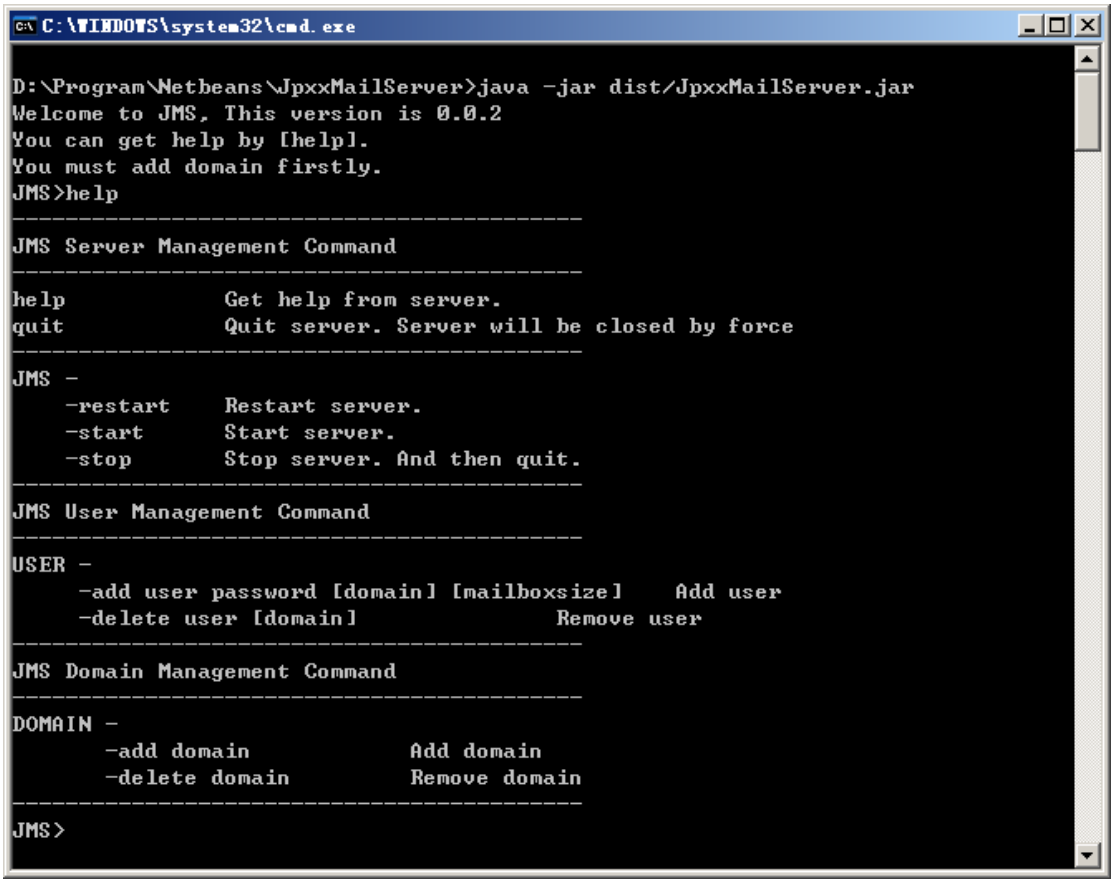
Explain:
user The user's login name.
password The user's login password.
domain The domain of JMS.

[domain] This is not necessary for you add a user with a default domain.
[mailboxsize] This is not necessary for you add a user with a default size.

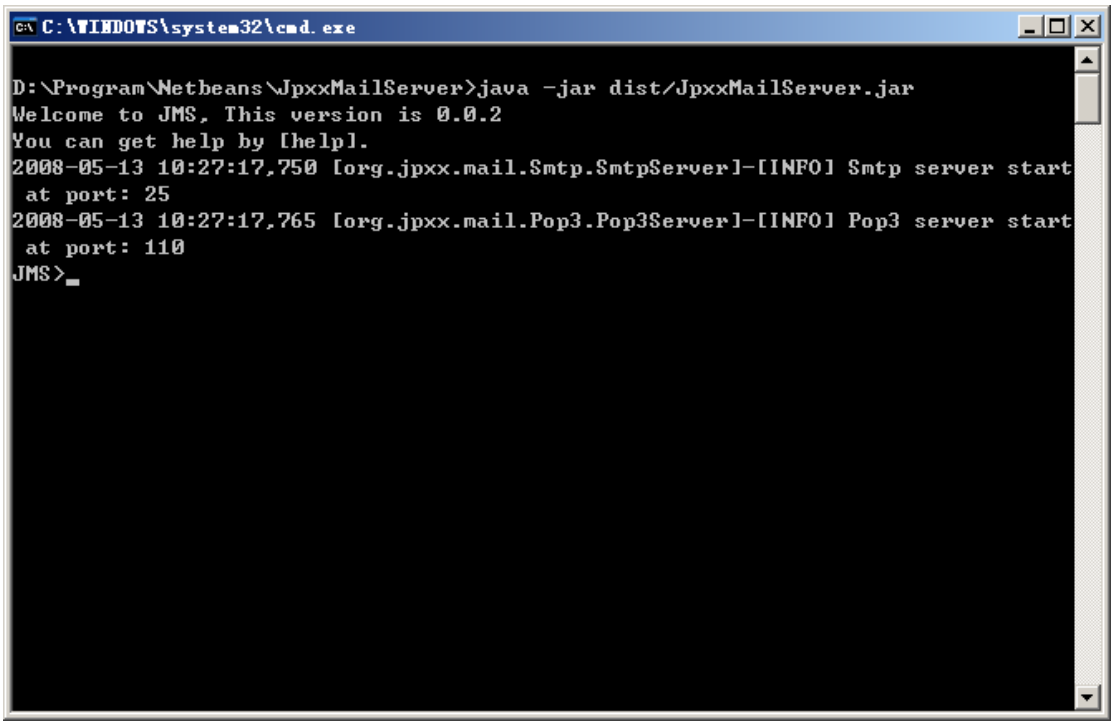
3.2 Screenshot



An error occurred, no domain for server.



Get help



Start server successfully

4. Configure

The configure files are automatically created by JMS when started firstly. Such as *log4j.xml(for log4j)*, *SystemConfig.xml(for JMS)*. You can edit it too. Now I'll give an example for two configure files.(The location of the configure files must in **./JMS/Config/** directory)

log4j.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE log4j:configuration SYSTEM "log4j.dtd">
<log4j:configuration xmlns:log4j="http://jakarta.apache.org/log4j/">
    <appender name="rollingFile" class="org.apache.log4j.DailyRollingFileAppender">
        <param name="Threshold" value="ERROR"/>
        <param name="File" value="JMS\\Log\\log.txt" />
        <param name="Append" value="false" />
        <param name="DatePattern" value="'.'yyyy-MM-dd'.log'" />
        <layout class="org.apache.log4j.PatternLayout">
            <param name="ConversionPattern" value="%d{yyyy-MM-dd HH:mm:ss,SSS} [%c]-[%p] %m%n" />
        </layout>
    </appender>
    <appender name="STDOUT" class="org.apache.log4j.ConsoleAppender">
        <param name="Target" value="System.out" />
```

```
            <layout class="org.apache.log4j.PatternLayout">
                <param name="ConversionPattern" value="%d{yyyy-MM-dd HH:mm:ss,SSS}
[%c]-[%p] %m%n" />
            </layout>
            <filter class="org.apache.log4j.varia.LevelRangeFilter">
                <param name="LevelMin" value="DEBUG"/>
                <param name="LevelMax" value="INFO"/>
            </filter>
        </appender>
        <appender name="STDERR" class="org.apache.log4j.ConsoleAppender">
            <param name="Target" value="System.err" />
            <layout class="org.apache.log4j.PatternLayout">
                <param name="ConversionPattern" value="%d{yyyy-MM-dd HH:mm:ss,SSS}
[%c]-[%p] %m%n" />
            </layout>
            <filter class="org.apache.log4j.varia.LevelRangeFilter">
                <param name="LevelMin" value="WARN"/>
                <param name="LevelMax" value="FATAL"/>
            </filter>
        </appender>
        <logger name="org.jpxx.mail" additivity="true">
            <appender-ref ref="rollingFile" />
        </logger>
        <root>
            <level value="all" />
            <appender-ref ref="STDOUT" />
            <appender-ref ref="STDERR" />
        </root>
</log4j:configuration>
```

SystemConfig.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<ConfigList>
            <Config>
                        <Name>Domain</Name>
                        <Value>jpxx.org</Value>
            </Config>
            <Config>
                        <Name>SmtpPort</Name>
                        <Value>25</Value>
            </Config>
            <Config>
                        <Name>Pop3Port</Name>
                        <Value>110</Value>
```

```
        </Config>
</ConfigList>
```

5. Change Log

JPXX MAIL SERVER CHANGELOG

==========

http://www.jpxx.org

Changes in version 0.0.2 (2008-05-13)

Package org.jpxx.mail

* Constant: Change Constant to a final Class And modify the mail system directory.
* Factory: The function **init()** is private now.
* JMS: Add a new Class **JMS**. The main function in JMS instead of MailServer's main function.
* JMSCommand: Add a newClass **JMSCommand**. This class implements some commands for JMS manager to manage the server.

Package org.jpxx.mail.Pop3

* Pop3User: Add an new interface **Pop3User**.
* Pop3UserMonitor: This Class implements the Pop3User's functions. In old version, the pop users who are online are stored in xml file. Now they are stored in a hash map.

Package org.jpxx.mail.User

* UserHandler: Add some extension fiunctions
* MailUserHandler: Complement the left functions which are not implemented.

Package org.jpxx.mail.Util

* FileUtil: Add a newClass **FileUtil** to delete all files and directories in a special directory.

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