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## 协议解析

## 读取文件

**package** com.attilax.net.ftp;

**import** java.io.ByteArrayOutputStream;

**import** java.io.File;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.FileOutputStream;

**import** java.io.IOException;

**import** java.io.OutputStream;

**import** java.util.Map;

**import** java.util.StringTokenizer;

**import** org.apache.commons.io.FileUtils;

**import** org.apache.commons.io.IOUtils;

**import** org.apache.commons.net.ftp.FTPClient;

**import** org.apache.commons.net.ftp.FTPFile;

**import** org.apache.commons.net.ftp.FTPReply;

**import** org.apache.log4j.Logger;

**import** com.alibaba.fastjson.JSON;

**import** com.attilax.io.FileService;

**import** com.google.common.collect.Maps;

/\*\*

\* Ftp工具类 需要导入commons-net-3.4.jar这个包

\*/

**public** **class** FtpUtil {

**private** **static** Logger *logger*=Logger.*getLogger*(FtpUtil.**class**);

**private** **static** FTPClient *ftp*;

**public** **static** **void** main(String[] args) **throws** FileNotFoundException, IOException {

String **ftpf** = "ftp://192.168.1.18/home/cnhis/managerweb/webapps/webcon/cpu.htm";

ftpf = "ftp://192.168.1.77:5221/0logs555/cpu2.htm";

FTPFile **ftpfile**=**new** FTPFile();

// 连接ftp server

**byte**[] **data\_bytearr** = *ftpurl2bytearr*(ftpf,7000);

System.***out***.println("get data\_bytearr ");

String **pathname** = "c:\\0logs555\\cpu9.htm";

FileService.*writeByteArrayToFile*(pathname,data\_bytearr);

// FileOutputStream fileOutputStream = new FileOutputStream(new File(pathname));

System.***out***.println("000");

}

**private** **static** **byte**[] ftpurl2bytearr(String ftpurl, **int** timeout) **throws** IOException {

Map **m**=*parseFtpurl*(ftpurl);

FtpUtil **fu**=**new** FtpUtil();

fu.host=(String) m.get("host");

fu.port= (**int**) m.get("port");

System.***out***.println(JSON.*toJSONString*(fu));

FTPClient **ftpClient** =fu. connect(timeout);

System.***out***.println("connect finished ");

ByteArrayOutputStream **ByteArrayOutputStream1** = **new** ByteArrayOutputStream();

String **reltPath** = "/home/cnhis/managerweb/webapps/webcon/cpu.htm";

reltPath=(String) m.get("path");

ftpClient.retrieveFile(reltPath, ByteArrayOutputStream1);

**byte**[] **data\_bytearr**=ByteArrayOutputStream1.toByteArray();

**return** data\_bytearr;

}

@SuppressWarnings("all")

**private** **static** Map parseFtpurl(String ftpurl) {

**int** **doubleslash\_protocalstart\_Index**=ftpurl.indexOf("//");

**int** **host\_port\_endIndex**=ftpurl.indexOf("/", doubleslash\_protocalstart\_Index+2);

**int** **maohaorIdx\_hostport\_splitor**=ftpurl.indexOf(":",doubleslash\_protocalstart\_Index);

Map **m**=Maps.*newConcurrentMap*();

**if**(maohaorIdx\_hostport\_splitor>0 )

m.put("host", ftpurl.substring(doubleslash\_protocalstart\_Index+2, maohaorIdx\_hostport\_splitor));

**else**

m.put("host", ftpurl.substring(doubleslash\_protocalstart\_Index+2, host\_port\_endIndex));

m.put("path", ftpurl.substring(host\_port\_endIndex, ftpurl.length()));

**if**(maohaorIdx\_hostport\_splitor>0 )

m.put("port", Integer.*parseInt*( ftpurl.substring(maohaorIdx\_hostport\_splitor+1, host\_port\_endIndex)));

**return** m;

# }

## 下载文件 ftpClient.retrieveFile("/home/cnhis/managerweb/webapps/webcon/cpu.htm", **new** FileOutputStream(**new** File(pathname)));

## 上传

**package** com.attilax.net.ftp;

**import** java.io.File;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.FileOutputStream;

**import** java.io.IOException;

**import** java.io.OutputStream;

**import** java.util.StringTokenizer;

**import** org.apache.commons.io.FileUtils;

**import** org.apache.commons.net.ftp.FTPClient;

**import** org.apache.commons.net.ftp.FTPFile;

**import** org.apache.commons.net.ftp.FTPReply;

**import** org.apache.log4j.Logger;

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\* Ftp工具类 需要导入commons-net-3.4.jar这个包

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**public** **class** FtpUtil {

**private** **static** Logger *logger*=Logger.*getLogger*(FtpUtil.**class**);

**private** **static** FTPClient *ftp*;

**public** **static** **void** main(String[] args) **throws** FileNotFoundException, IOException {

String **ftpf** = "ftp://192.168.1.18/home/cnhis/managerweb/webapps/webcon/cpu.htm";

FTPFile **ftpfile**=**new** FTPFile();

// 连接ftp server

FtpUtil **fu**=**new** FtpUtil();

fu.host="192.168.1.18";

FTPClient **ftpClient** =fu. connect();

String **pathname** = "c:\\0logs555\\cpu2.htm";

FileUtils.*forceMkdir*(**new** File(pathname).getParentFile());

ftpClient.retrieveFile("/home/cnhis/managerweb/webapps/webcon/cpu.htm", **new** FileOutputStream(**new** File(pathname)));

System.***out***.println("000");

}

**public** **static** **final** String ***ANONYMOUS\_USER***="anonymous";

**private** String ftpPath;

**private** String host;

**private** **int** port=21;

**private** String user="anonymous";

**private** String password;

**private** FTPClient connect(){

FTPClient **client** = **new** FTPClient();

**try**{

//连接FTP Server

client.connect(**this**.host, **this**.port);

//登陆

**if**(**this**.user==**null**||"".equals(**this**.user)){

//使用匿名登陆

client.login(***ANONYMOUS\_USER***, ***ANONYMOUS\_USER***);

}**else**{

client.login(**this**.user, **this**.password);

}

//设置文件格式

client.setFileType(FTPClient.***BINARY\_FILE\_TYPE***);

//获取FTP Server 应答

**int** **reply** = client.getReplyCode();

**if**(!FTPReply.*isPositiveCompletion*(reply)){

client.disconnect();

**throw** **new** RuntimeException(" FTPReply.isPositiveCompletion(reply) ： replycode is "+reply );

}

//切换工作目录 if defin workdir,if not difin nothing todo

changeWorkingDirectory(client);

System.***out***.println("===连接到FTP："+host+":"+port);

}**catch**(IOException **e**){

**throw** **new** RuntimeException(e);

}

**return** client;

}