

# Using FTP To Move Files To And From ISeries

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## Using FTP To Move Files To And From iSeries

### Overview

This document will show you several methods for transferring files to and from the iSeries using FTP (File Transfer Protocol).

In this document you find sections on:

- Using the Windows DOS prompt
- Transferring files using FTP from the iSeries to an FTP Server
- Using the RME X FTP Module

And as an added bonus:

- Turn your PC in an FTP Server: For transferring files FROM the iSeries to a PC

### Using FTP With The Windows DOS Prompt

In this example we will create a folder in the c:\ drive called files (c:\files). This is where you will move the files to and from the iSeries.

**TIP:** When transferring files to the iSeries, If a program requires a file to be named a certain way, it is a good idea and easier to change the file name on the PC and then transfer the file.



## Using FTP To Move Files To And From iSeries

Using a command (DOS) box start an FTP session to your iSeries (Example here is 192.169.0.8).

1. To access to the *command box* from Windows, click on the **Start button > Run >CMD** and press **ENTER**
2. In the *command box* type, **ftp 192.169.0.8** and press **ENTER**

```
C:\Users\Jamie>ftp 192.169.0.8
Connected to 192.169.0.8.
220-QTCP at 192.169.0.8.
220 Connection will close if idle more than 5 minutes.
User (192.169.0.8:(none)) [ ]:lbs
331 Enter password.
Password:
[ ]BS logged on.
```

3. Sign into the FTP site using *your RMEx User Name and Password*
4. Use “lcd c:\files” to change the local folder on your C: drive where you want to put the files. LCD means Change Local Directory as in changing to whatever directory on your PC you will be working from

```
[ ]BS logged on.
ftp> lcd c:\files
Local directory now C:\Files.
```

**NOTE:** If you are transferring a PROGRAM to your iSeries, type ‘**BIN**’ here and press **ENTER**. Enter. DO NOT do this if you are transferring data files such as .txt or.CSV files.

- ‘GET SCDATA/FILENAME’ (Without the quotes) or as in this case “get scdatabs/phout0117.phonscrubn”. The PUT command will take a file from your c:\folder and place it ON the iSeries
- ‘PUT FILENAME SCDATA/FILENAME’

```
ftp> get scdatabs/phout0117.phonscrubn
200 PORT subcommand request successful.
150 Retrieving member PHONSCRUBN in file PHOUT0117 in library SCDATABS.
226 File transfer completed successfully.
ftp: 11527 bytes received in 0.01Seconds 823.36Kbytes/sec.
ftp>
```

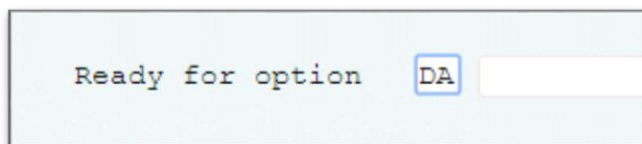
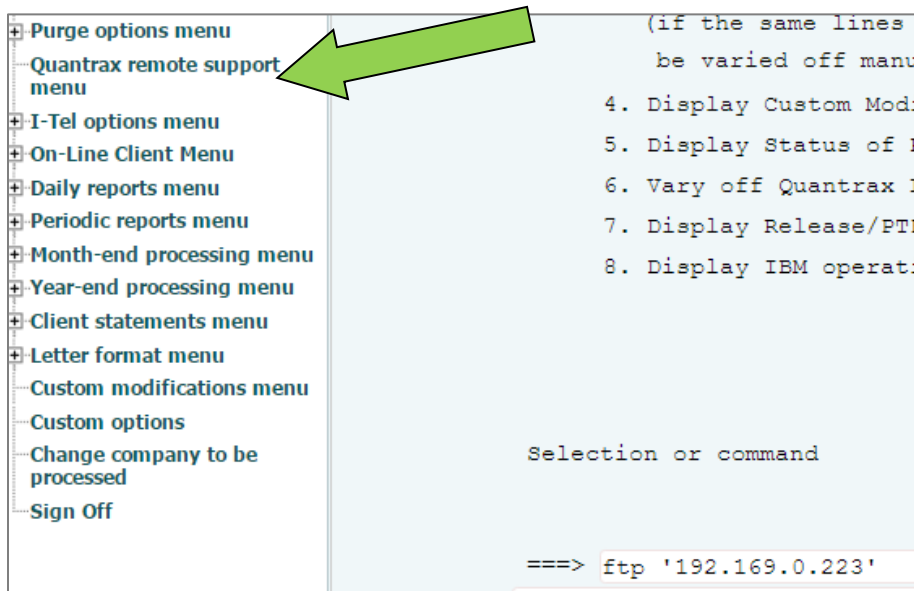
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## Transferring Files Using FTP From The ISeries To An FTP Server

**NOTE:** Only users authorized to go the iSeries command line can use this method. Hosted clients are not able to get to the iSeries command line.

Most companies have an FTP server. This will allow you to send a file to the FTP Server so you may retrieve that file for processing. You will need to know the IP Address, user name, and password of your FTP Server before we start.

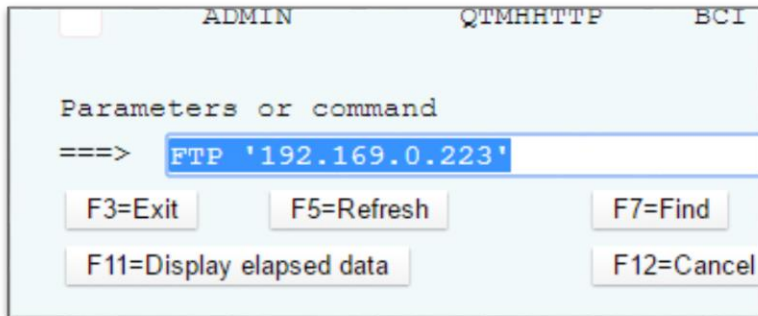
1. Go to the iSeries command prompt (you can get there in RMEX either by going to **Quantrax remote support menu** off the menu tree **OR** from the **Ready for option** by putting **DA** then press **ENTER**.



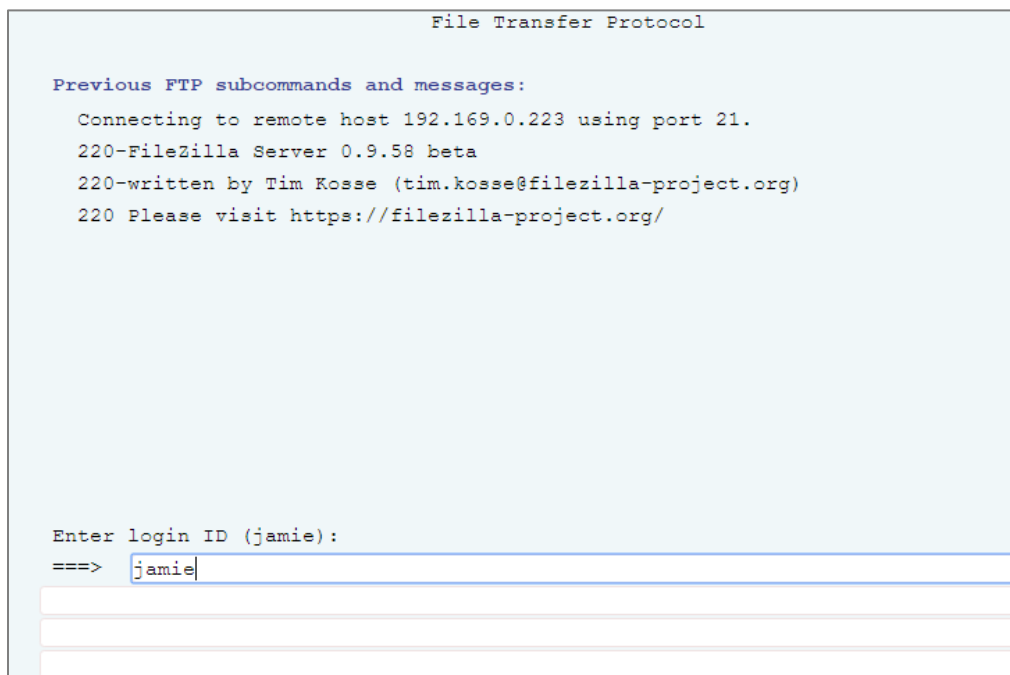
## Using FTP To Move Files To And From I Series

2. On the command line type **FTP** and the **IP Address of your FTP Server** and press **ENTER**.

In the example below it is typed as: FTP '192.169.0.223'

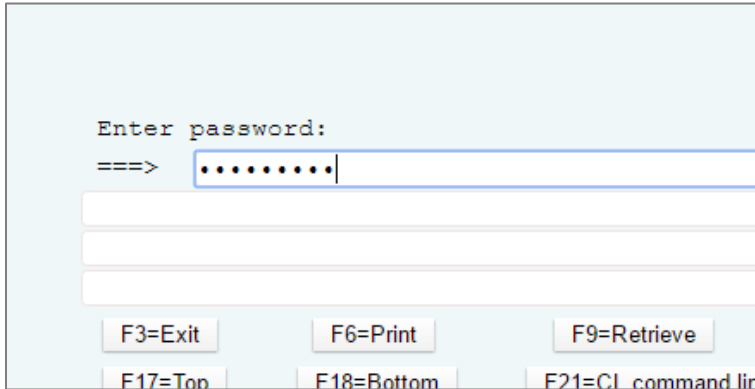


3. Next you will be asked for your **FTP user name** and press **ENTER**.



## Using FTP To Move Files To And From iSeries

4. Next your *password* and press ENTER.



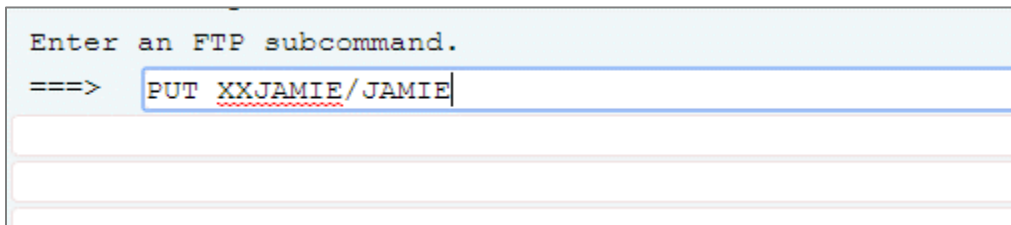
Enter password:  
 ===> [password field with dots]  
 [F3=Exit] [F6=Print] [F9=Retrieve]  
 [F17=Top] [F18=Bottom] [F21=Cl command list]

5. Next use the **PUT** command to move the file from your iSeries to the FTP Server.

- You will need to tell the software what **Library** the file is in on your iSeries. In this case the file is in Library “XXJAMIE”
- You will also need to know the **file name** you are transferring from the iSeries. In this case “JAMIE”

So in the example below, we use the command:

**PUT XXJAMIE/JAMIE** Or in other words: **PUT LIBRARY/FILENAME**



Enter an FTP subcommand.  
 ===> [PUT XXJAMIE/JAMIE]  
 [empty input field]  
 [empty input field]

```
> PUT XXJAMIE/JAMIE
200 Port command successful
150 Opening data channel for file upload to server of "/JAMIE"
226 Successfully transferred "/JAMIE"
3292386 bytes transferred in 2.147 seconds. Transfer rate 1533.153 KB/sec.
```

**NOTE:** The message says “Successfully transferred “/JAMIE” “. After you press **ENTER**, you will get message that either the transfer was successful, or it will let you know if there was a problem.

Now this file will be available for you on your FTP Server.

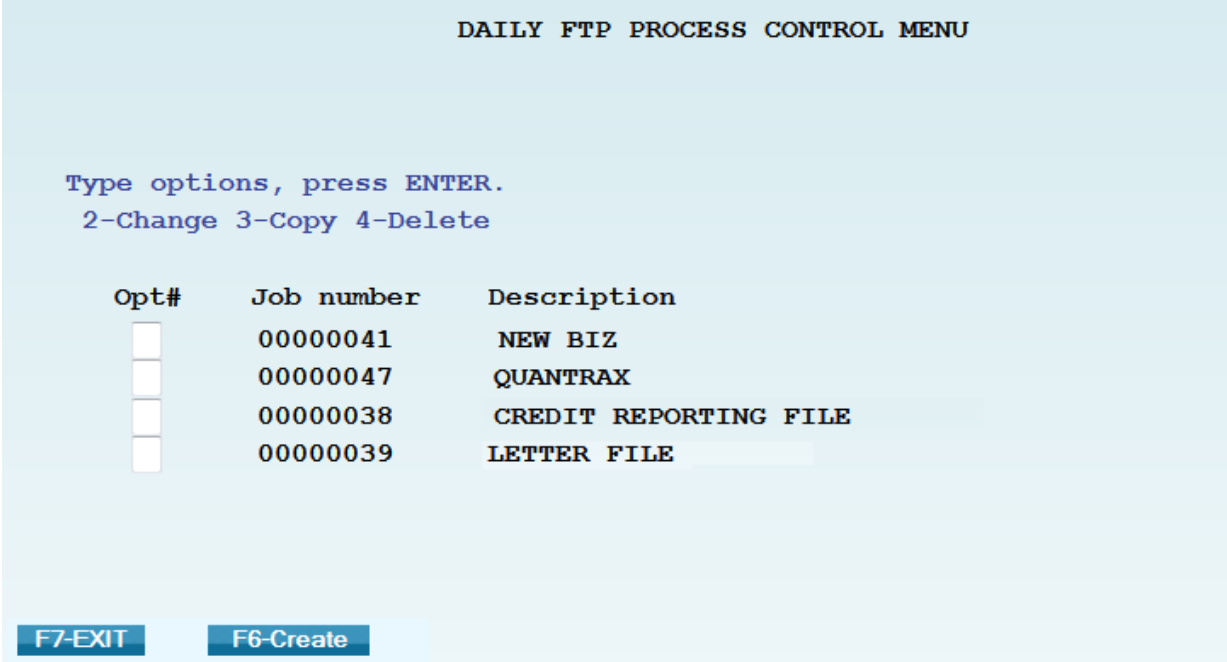
# Using FTP To Move Files To And From ISeries

## Using The RMEX FTP Module

The FTP Job processing module allows you to schedule the transferring of files between the AS400 and your FTP site automatically. Once set up, the processing will occur on the date and time entered.

**Note:** If you power down your system, run an IPL, loose power, etc. you will need to reactivate the schedules (see bottom of doc for instructions)

1. Before creating your first FTP job, Quantrax will need to activate the FTP Module. If you get an error please contact Quantrax.
2. From **System Control menu 4 > 1-FTP Job Processing**, you can:
  - Press **F6** - Create a new job
  - Type **2** - Change an existing job
  - Type **3** - Copy an existing Job
  - Type **4** - Delete an existing Job



DAILY FTP PROCESS CONTROL MENU

Type options, press ENTER.  
2-Change 3-Copy 4-Delete

Opt#	Job number	Description
<input type="checkbox"/>	00000041	NEW BIZ
<input type="checkbox"/>	00000047	QUANTRAX
<input type="checkbox"/>	00000038	CREDIT REPORTING FILE
<input type="checkbox"/>	00000039	LETTER FILE

F7-EXIT      F6-Create

**NOTE:** Once you have Jobs created it is more efficient to just copy an existing one and make the needed changes rather than creating a new one each time.



# Using FTP To Move Files To And From I Series



## Daily FTP Process Control Menu – Glossary Of Fields

DAILY FTP PROCESS CONTROL MENU

Description	DEBBIE'S TEST	Job number	00000046
FTP Address	68.90.172.163	Job activating time	900

-If- Specific day/days of the week (MTWTFSS)   

-Or- Every  number of days

-Or- Every month on                       Next Process Date 12/10/12

-Or- Last day of each month Y

Port	<input type="text"/> 21	SSL(Y)	<input type="checkbox"/>	Binary(Y)	<input type="checkbox"/>	Get/Put(G/P)	<input type="text"/> G	Date Used Y	<input type="checkbox"/> Y	Format	<input type="text"/> MDY
User Name	user log in		Password		password						

Local Library Directory	<input type="text"/> SCDATA									
Local File	<input type="text"/> LTLOGIC								Clear File Y	<input type="checkbox"/> Y
Include member	<input type="checkbox"/> Y	File date use Y	<input type="checkbox"/>	Member date use Y	<input type="checkbox"/>					
Remote Library Directory	<input type="text"/> QUANTRAX									
Remote File	<input type="text"/> LTLOGIC.CSV									
Include member	<input type="checkbox"/> Y	File date use Y	<input type="checkbox"/> Y	Member date use Y	<input type="checkbox"/>					
Backup Library Directory	<input type="text"/> SCDATA									
Backup File	<input type="text"/> LTLOGICBK									
Include member	<input type="checkbox"/> Y	File date use Y	<input type="checkbox"/>	Member date use Y	<input type="checkbox"/>					

- **Description** – Name of the job
- **Job number** – Assigned by RME
- **FTP address** – The FTP address associated with your FTP site
- **Job activating time** – Time of day the job should run (military time)
  
- **-If- Specific day/days of the week (MTWTFSS)** – Enter a “Y” in the associated day of the week field
  - **-Or- Every \_\_ number of days** – every “x” number of days (ex. Run every 10 days)
  - **-Or- Every month on \_\_** - A specific day of the month (ex. Run on the 10<sup>th</sup> of each month)
  - **-Or- Last day of each month Y \_** - “Y” if you want it to run on the last day of the month
  
- **Port** – The port used to connect to the FTP site (default is 21 as that is the most commonly used)
- **SSL** - Secure Socket Layer (currently not available)
- **Binary** – If the file needs to be transmitted as binary (mainly used for transmitting programs), enter a “Y”
- **Get/Put** – If you are moving a file from the FTP site to the AS400, enter “G” = get. If you are moving a file from the AS400 to the FTP site, enter “P” = put
- **Date Used** – If you are going to be using a date within the naming convention, enter a “Y”

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- **Format** - If you are going to be using a date within the naming convention, enter the format to be used. Ex. MDCY, MDY, YMD, etc.
- **User name** – Enter the User name to log into the FTP site
- **Password** – Enter the Password for the User name

**NOTES:** Job activating time and a day/date schedule are required. If you are going to be manually processing every day, to prevent auto processing you can enter 999 in the field **-Or- Every \_\_\_ number of days**

- **Local = AS400 (RME<sub>x</sub>)**
  - **Local Library|Directory** – Enter the library name on the AS400 where the file should either be put to or gotten from (example below = SCDDATA)
  - **Local File** – Enter the valid file name that should exist on the AS400 (example below = LTLOGIC)
  - **Clear file** – Enter a “Y” if you want to clear the existing AS400 file once transmission is complete
  - **Include member** – Enter a “Y” ONLY if the AS400 member name is different from the file name
  - **File date use** – Enter a “Y” if the FTP module should associate a date within the name of the AS400 file
  - **Member date use** – See File date use above. This field is rarely used, it is only used if there is a date associated with the member name
- **Remote = FTP site**
  - **Remote Library|Directory** - Enter the directory (folder) name on the FTP site where the file should either be put to or gotten from (example below = QUANTRAX)
  - **Remote File** - Enter the valid file name that should exist on the FTP site (example below = LTLOGIC.CSV)
  - **Include member** – Always enter a “Y” as this associates the file extension (.txt, .csv, etc.)
  - **File date use** – Enter a “Y” if the FTP module should associate a date within the name of the FTP file (date appears before the extension)
  - **Member date use** – This field is rarely used. Enter a “Y” if the FTP module should associate a date within the name of the FTP file (date appears after the extension)

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- **Backup = AS400 (RME<sub>x</sub>)**
  - **Backup Library | Directory** – The library name on the AS400 where the backup file should be created (example below = SCDATA)
  - **Backup File** - Enter the valid backup file name that should be created on the AS400 (example below = LTLOGICBK)
  - **Include member** – Enter a “Y” ONLY if the AS400 member name is different from the file name
  - **File date use** – Enter a “Y” if the FTP module should associate a date within the name of the AS400 file
  - **Member date use** – See File date use above. This field is rarely used, it is only used if there is a date associated with the member name

**NOTE:** All file names MUST follow standard file naming conventions to be considered valid.

Ex. AS400 file names can only be a max of 10 characters and cannot begin with a Q, keyboard character or number. FTP site file names cannot have certain keyboard characters in them.

**NOTE:** When a date is used in the file name – the date in the file name must be the exact date as the file that is being transmitted.

**NOTE:** Files are only transferred between the iSeries and your main FTP directory. FTP Sub folders cannot be used at this time.

# Using FTP To Move Files To And From I Series

F10-Process Immediately = Runs the process immediately instead of at a scheduled time.

- Can be used to process 1 time files or files where the name changes from time to time.
- If there is a date extension associated with either file, you will be presented with this additional screen:

**NOTE:** You must manually enter the local and remote file names, including any date and member/extension associated.

```

                                DAILY FTP PROCESS CONTROL MENU

Description  DEBBIE'S TEST                Job number  00000046
FTP Address  68.90.172.163                Job activating time  900

-If-  Speci
-Or-  Every
-Or-  Every
-Or-  Last

Port    21
User Name u

Local Libra

Local File  LTLOGIC                Clear File Y Y
Include member Y  File date use Y  Member date use Y

Remote Library|Directory  QUANTRAX
Remote File  LTLOGIC.CSV
Include member Y Y File date use Y Y Member date use Y

Backup Library|Directory  SCDATA
Backup File  LTLOGICBK
Include member Y  File date use Y  Member date use Y

Please enter the exact file name with member
0/12

Local File  LTLOGIC
Remote File  LTLOGIC112912.CSV    mat MDY
```

**NOTE:** If there is no date extension associated with either file, you will not be prompted to re-enter the file names.

**NOTE:** If setting up a Process Immediately for the first time you must F12-Update before using the F10-Process Immediately feature.

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F8-Log = Specifics regarding the success or failure of the last time this job was processed

```

                                DAILY FTP PROCESS CONTROL MENU
Date                               Log Text
11/29/12                           230 Once you log in you can click on the gold icon on t
11/29/12                           he top right to change the password.
11/29/12                           UNIX Type: L8
11/29/12                           Enter an FTP subcommand.
11/29/12                           > CD QUANTRAX
11/29/12                           250 Directory changed to /C:/inetpub/wwwroot/FTP/client
11/29/12                           /QUANTRAX
11/29/12                           Enter an FTP subcommand.
11/29/12                           > PUT SDCATA/LTLOGIC LTLOGIC112912.CSV
11/29/12                           229 Entering Extended Passive Mode (|||49765|)
11/29/12                           150 Opening BINARY mode data connection for LTLOGIC1129
11/29/12                           12.CSV.
11/29/12                           226 Transfer complete. 12,796 bytes transferred. 42.07
11/29/12                           KB/sec.
11/29/12                           12796 bytes transferred in 0.095 seconds. Transfer rat
11/29/12                           e 135.084 KB/sec.
11/29/12                           Enter an FTP subcommand.
11/29/12                           > QUIT
11/29/12                           221 Goodbye, closing session.
11/29/12                           ***** 20121129-142535
```

## Troubleshooting:

If your AS400 takes a power hit the FTP Job processes will need to be reset.

Go into each job:

1. Use **2-change**
2. Confirm day and time
3. Press **F12**
4. This will reset the schedule for that FTP job

**NOTE:** Most FTP sites have security settings that prevent hackers from accessing the site. One of these features blocks any IP address that is perceived to be attacking it. To help prevent this blocking, we have done the following fail safes:

## Using FTP To Move Files To And From I Series

When multiple jobs are scheduled for the same date and time the system will add a 2 second delay when submitting each job.

The system is designed to check the active jobs before submitting the next job. It will check up to 10 times before submitting the next job. If other jobs are still running after 10 checks, you will need to review the scheduled jobs and make changes. You can change the job processing time on each job to be 5 minutes apart.

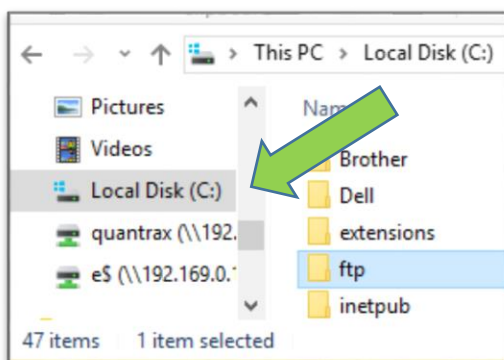
### Turn Your PC in An FTP Server: For Transferring Files FROM The I Series To A PC

If you have an FTP Server in your office that you can access FROM your iSeries you have the ability to use either the FTP module OR a command line from the iSeries to move files back and forth. Your company may already be doing this with a dedicated Internet FTP server. But what about transferring a file from the iSeries to your PC. How can you do this? By turning your PC into an FTP Server.

Below is a demonstration of how to use a program running on my PC called “FileZilla Server”, an Open Source and free server. Keep in mind this is the FileZilla SERVER software, NOT the popular FileZilla FTP client software.

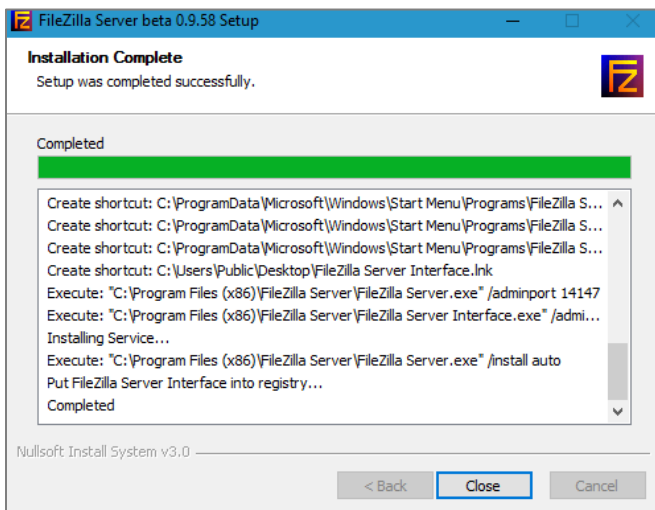
**NOTE:** We DO NOT support nor answer questions about FileZilla. This is for demonstration ONLY, there are many fine FTP Server programs to choose from.

1. For this demonstration I will be creating a folder off my C:\ drive called FTP. When I am done the example files will be in C:\FTP.



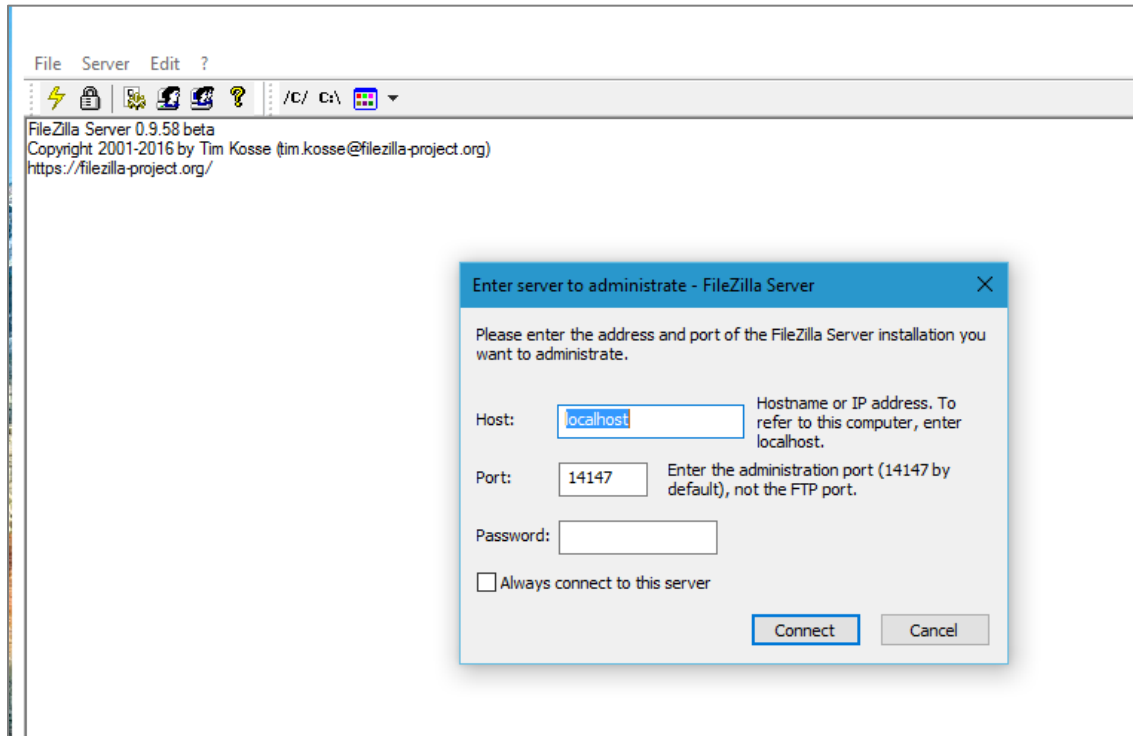
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- Now you will need to download your FTP Server software and install it. In this case from <https://filezilla-project.org>
- Note once again we are downloading the Server NOT the client software. I choose to install FileZilla just using the Defaults.

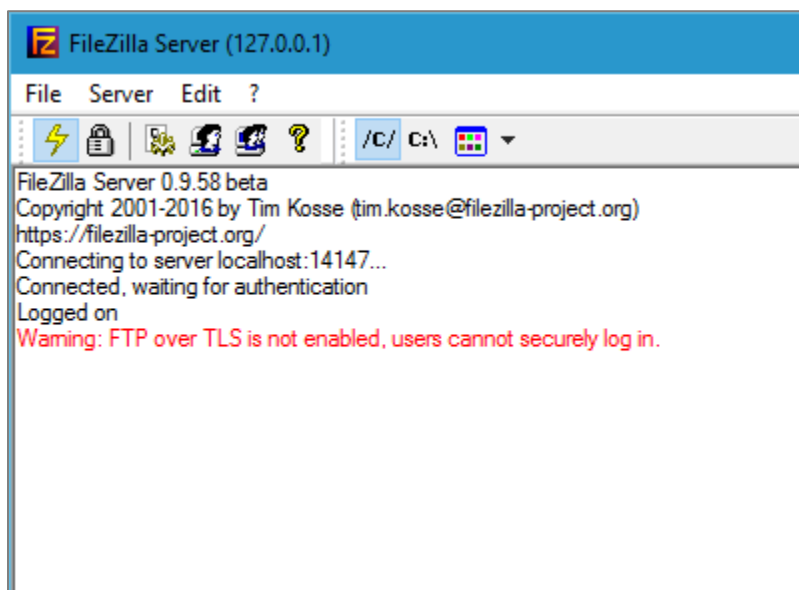


## Using FTP To Move Files To And From I Series

- At this point I added a *Password* so not just anyone can control my FTP Server. Otherwise I left everything as default and clicked **Connect**.



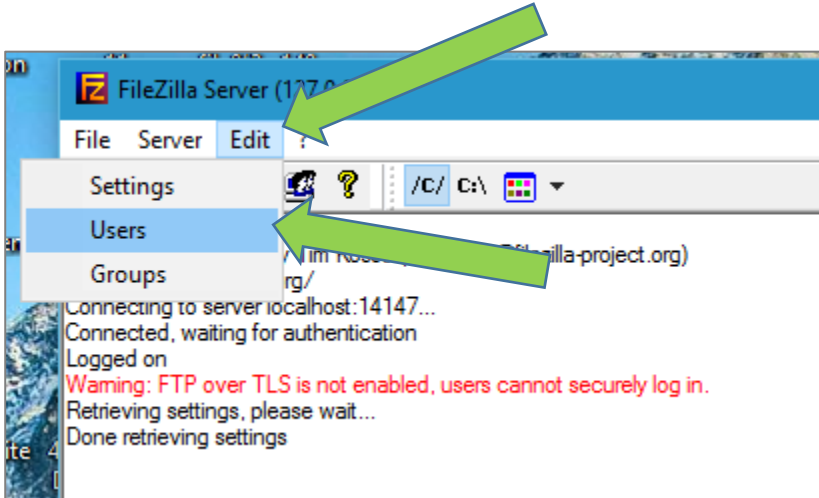
- Since I am running this server in my office I ignore the TLS warning.



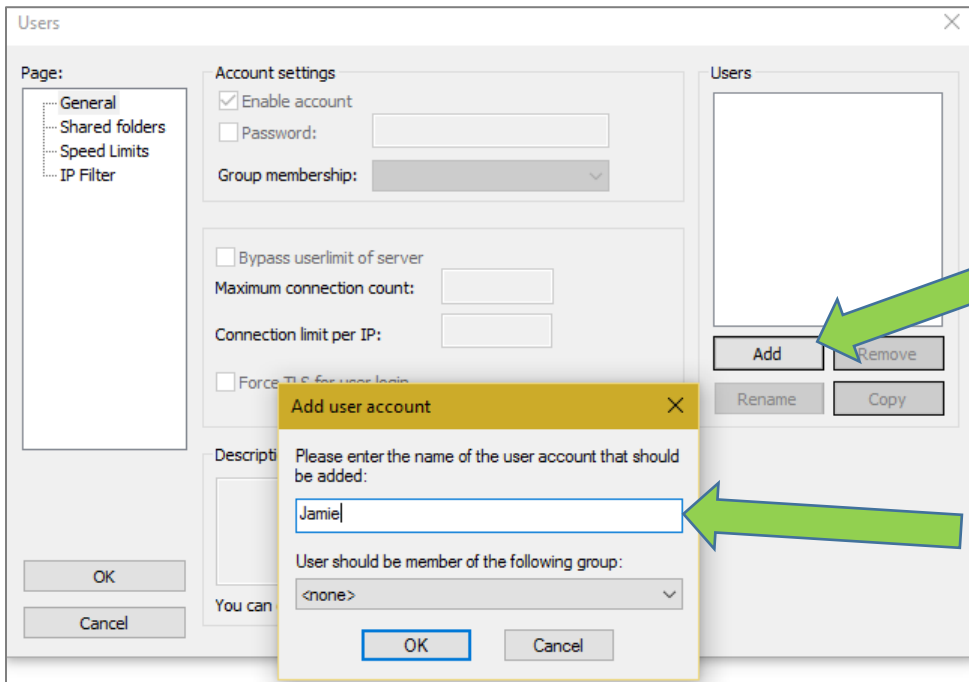


# Using FTP To Move Files To And From ISeries

6. Next I click **Edit > Users**



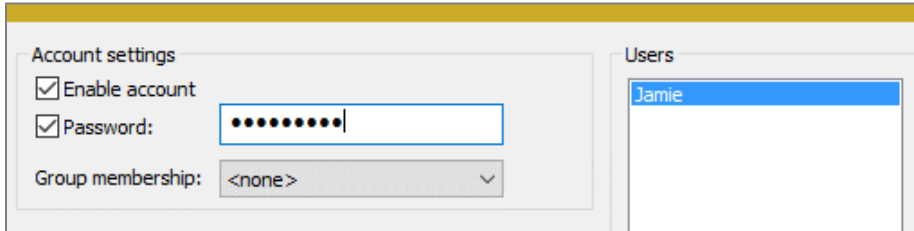
7. Next, click **Add**, insert a *user name* then click **OK**.



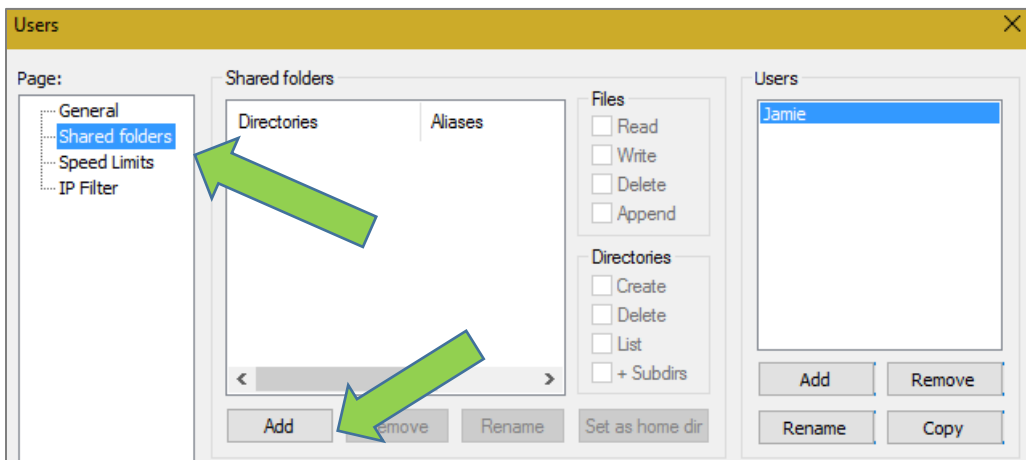
# Using FTP To Move Files To And From ISeries

8. Then give the *user a password*.

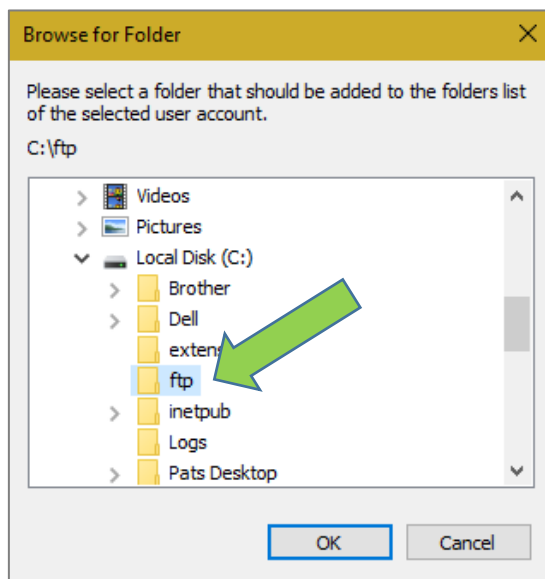
**NOTE:** This user name and password will be used by your FTP client, so please make a note of it.



9. Next click **“Share folders”** and then click **Add**.



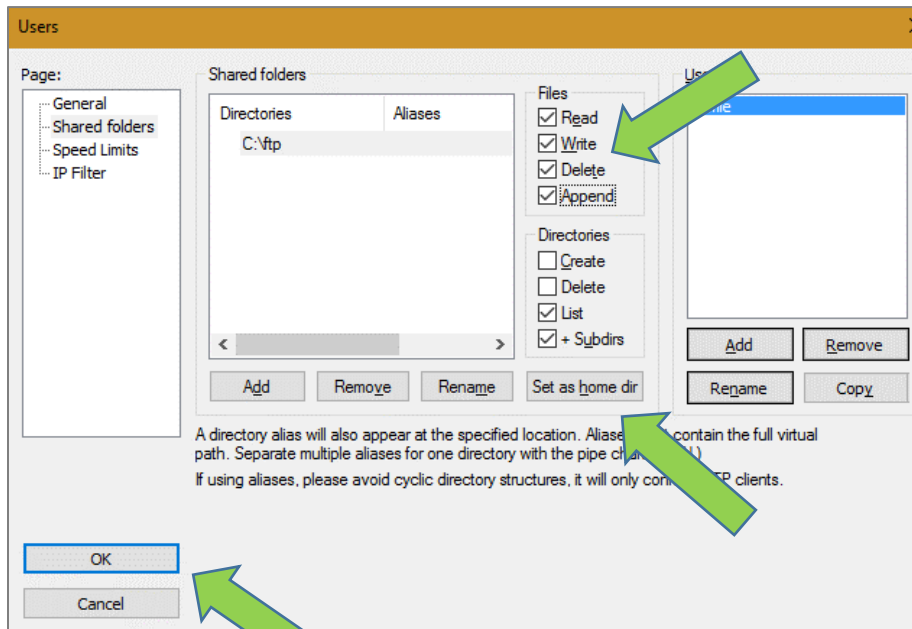
10. For this example will use the folder off my C: drive called FTP (That I just created) and click **OK**.



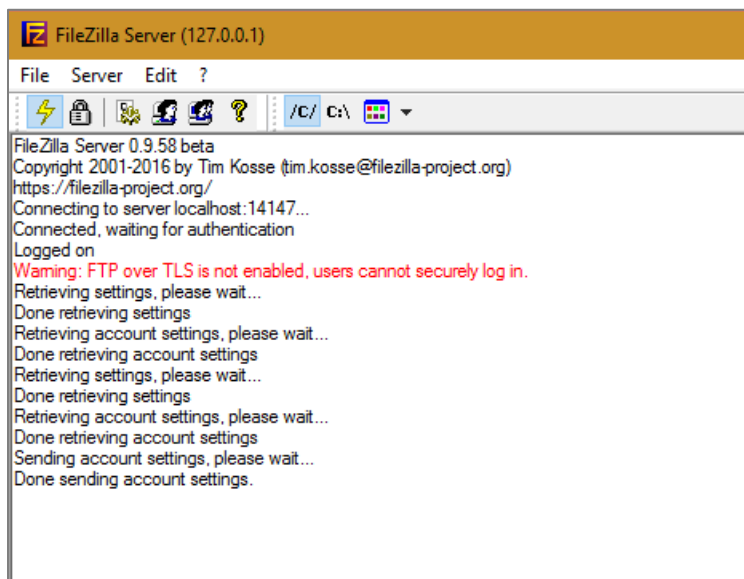
# Using FTP To Move Files To And From ISeries

11. Next give this user authority to . . .

- Read, Write, Delete, and Append.
- Then, click the button “Set as home dir”.
- Then, click OK.



12. You now have an FTP Server running on this PC. When you login using your FTP client software all the files will be moved to and from C:\FTP.



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### Logging into your new server:

Do you know your IP Address for the PC you have the FTP Server software running on? **This will be required.**

1. Access this info by a *command box*
  - **Windows 8 or above:** Start button > CMD
  - **Windows 7 or below:** Start > Run > CMD


```
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\jamieh.QUANTRAX02>ipconfig
```

2. Type '**ipconfig**' and press ENTER..

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : Quantrax
IPv4 Address. . . . . : 10.0.0.215
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.1
```



3. Now look for the **IPv4 Address**

**NOTE:** The software you use to access your personal FTP server will require the user name user and password you created. As well as the IPv4 Address you just retrieved.

Example:

Login: Jamie  
Password: XXXXXXXXX  
IP Address: 10.0.0.215