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| **Title:** | Copy and Rename Dropbox Files by User |
| Updated: | Jan 29th 2013 |
| Overview: | In this lab we will build a script to copy the files uploaded to the FTP “Drop” site—renaming them based on the username of the person who uploaded the files.   * Create Storage Directory if it does not already exist * Create a FOR loop to extract the Owner of the file and then rename the file using the owner’s user name. |
| Task/Activity: | 1. Create STORAGE Directory |
|  | 1. Build FOR loop to extract the Owner of each file and rename the file using the owner’s username |

In this activity we need to create a storage directory (if it does not already exist) and copy the files uploaded to the FTP root directory to a storage location. When we copy the files, we need to rename the files using the Owner (or username) of the account who uploaded the file.

1. **Create STORAGE Directory**

Often when creating directories it is a good idea to check whether the directory currently exists before running the mkdir command:

1. Create a command that matches the following actions:
   1. Check whether the C:\storage folder exists
   2. If the C:\storage folder does exist change into the root directory
   3. If the command to change into the root directory was successful, make/create a directory in root called “storage”.

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1. **Build FOR loop to extract the Owner of each file and rename the file using the owner’s username**

To complete this task successfully we first need to review a DIR command line parameter along with the ability to perform a FOR loop on the results of a cmd line tool—that is executed INSIDE of the loop.

1. You can view the owner of a file on an NTFS filesystem by using the “DIR” command along with the “/Q” parameter which will “Display the owner of the file”. Open a cmd shell and run the “**DIR /Q**” command on the **\windows** directory to view the owners of the various file in this directory.

**C:\>DIR /Q \windows**

1. When we parse tokens and delims in a /F (for each) FOR loop we can read in a set of files, a single string, or we can insert a command inside of the loop. When we insert a command inside of the loop it (the command) will be executed first and the FOR loop will then parse/evaluate against the result of the command. Use notepad to create the following script demonstrating the ability to insert a command inside of a FOR loop, along with the ability to insert an additional FOR loop inside of a FOR loop. When finished, save and execute the script:

**C:\>notepad installboot.bat**

**@echo off**

**for /f "tokens=1-10 delims=:/, " %%a in ('systeminfo ^| findstr /C:"Original Install Date:"') do (**

**echo Your system was installed on: %%d/%%e/%%f at %%g:%%h:%%i %%j**

**for /f "tokens=1-10 delims=:/, " %%a in ('systeminfo ^| findstr /C:"System Boot Time:"') do (**

**echo Your system was last booted: %%d/%%e/%%f at %%g:%%h:%%i %%j**

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**pause**

1. Now that we know how to use the **DIR /Q** command to view the owner of a file and how to execute a command **INSIDE** of a **FOR** loop, create a command that performs the following actions:
   1. Retrieve a directory listing of C:\inetpub\ftproot showing the owner of each file
   2. Copy each file (using a FOR loop) to the C:\storage folder—and while doing so, rename the files, prepending the owner/username of the file and “--“ to the file name. E.g.: Assuming Tom is the owner of the **test1.txt** file in the **C:\inetpub\ftproot** directory, when copied it should be renamed to: **tom--test1.txt** in the **C:\storage** directory.

Use the space below to write your FOR command:

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