





Uploading a file using FTP

In a previous recipe, we have seen how to download a file using XXLEtcp. Here we will see how to upload a file to a web server using the FTP protocol.

Getting ready

From the File menu, navigate to New | Function Library or use the Alt + Shift + N shortcut. Name the new function library FTP. vbs. Make sure the library is associated to the test. In order to use the code given in this recipe, you must have an FTP user account on a server. To understand this recipe, you should be familiar with FTP protocol and the command line.

How to do it...

In the function library, we will put the following code.

First we will define the following constants for better readability and reusability:

Enjoy Safari? Subscribe Today

```
Del
Del
Del
t"
const C_FUT_OP="put "
const C_C_OP="cd "
const C_FILE_MOT_FOND="File nucleasfully transferred"
const C_FILE_MOT_FOND="File not found"
const C_CANNOT_LOGIN="Cannot log in"
const C_UNDOM_ERROR="Unknown error"
const C_UNDOM_ERROR="Unknown error"
const C_UNDERC="">
const C_REGERC="">
const C_REGERC=">
const C_REGERC="">
const C_UNDERC="">
const C_UNDERC="
const C_UNDERC="">
const C_UNDERC=""
const C_UNDERC="">
const C_UNDERC=""
const C_UNDERC="
```

Next, we will define our FTP class with the following fields, which will be used to store the data needed for the FTP operation:

```
class FTF

private m_oScriptShell

private m_slocalFile

private m_slocalFile

private m_slocalFath

private m_slocalFath

private m_slocalFath

private m_slocalTath

private m_slocalTath

private m_slocalTath

private m_slocalFath

private m_slocalFath
```

 We will then initialize our class upon instantiation with a FileSystemObject to handle files and a WScript.Shell object to handle commands:

```
private sub class initialize

FSO-CreateObject (C_FSO)

ScriptShell-CreateObject (C_SHELL)

'default transfer type - binary

TTypecC_BIN

end sub
```

4. We will take care of disposing of the same objects at the time the object is destroyed:

```
private sub class_terminate
```

(1)

Recent



Tutorials



Highlights



Settings

Feedback (http://community.safa

Sign Out

Settings

Feedback (http://community.safaribooksonline.com/)

Sign Out

```
FSO=nothing
ScriptShell=nothing
end sub
```

Then we will initialize the object with our FTP account connection and login information:

```
function init(sSite, sUsername, sPassword)
SitermSite
Username=CUSER & sUsername
Password=SPassword
end function
```

6. Next, upload the local file with the following method:

```
function uploadFile(slocalFile, SRemotePath, STType)

LocalFiles(FOT_OF & slocalFile
RemotePathC_CD_OF & shemotePath
TType=STType

me.createFTEGcript()

*Sun the FTP command through the command line

'we use the MScript.Shell object to run the FTP command
'through the command line, in which the -n switch

*suppresses auto-login upon initial connection and the -s:

*switch takes the path of the temporary script file we

"created as parameter. The command contained in such a

"file run automatically after FTP starts. The > operator

"redirects the FTP verbone output to our temporary results

"file. The last parameter is set to TRUE and it indicates

"whether to vait until the FTP program finishes.

ScriptShell.Run C_FTP_CMO & ScriptTmpFilename & " " & Site & C_RED.

Wait 0, C_BYNC_TIME

uploadFilewme.checkResults()

if FSO.FileExists(ScriptTmpFilename)
end if
end function
```

7. Check the results of the transfer, which are stored in

ResultsTmpFile with the following method:

```
function checkResults()
dim ffTFResults of transfer.

'Check results of transfer.
Set ffTFResults = FSO.OpenTextFile (ResultsTmpFilename, C_R)
if not ffTFResults.AtEndOStream then
shesults = FFFFResults.ReadAll
end if
ffTFResults.Close
if FSO.FileExists(DesultsTmpFilename)
then
FSO.DeleteFile(ResultsTmpFilename)
end if

If InStr(sResults, C_FILE_TTANNSFE_OK) > 0 Then
checkResults = micFail
shesults-C_ERS_STRAC_FILE_NOT_FOUND) > 0 Then
checkResults = micFail
shesults-C_ERS_STRAC_FILE_NOT_FOUND.YOUND is shesults-C_ERS_STRAC_FILE_NOT_FOUND.YOUND is shesults-C_ERS_STRAC_FILE_NOT_FOUND.YOUND is shesults-C_ERS_STRAC_FILE_NOT_FOUND.YOUND is shesults-C_ERS_STRAC_FILE_NOT_FOUND.YOUND.YOUND.Then
checkResults = micFail = Shesults-C_ERS_STRAC_CANNOT_LOGINAryShewLinesSResults
Else
checkResults-C_ERS_STRAC_CANNOT_LOGINAryShewLinesSResults
Else
checkResults-C_ERS_STRAC_CANNOT_LOGINAryShewLest_LoginaryShewLest_LoginaryShewLest_LoginaryShewLest_LoginaryShew
```

8. The CreateFTPScript() function creates the FTP script from the input file fFTPScript:

```
function createFF8cript()

dim fFF8cript 'Am file
    dim eFF8cript 'Am string
    dim sFFF6cript 'Am string
    dim sFFF6cript 'Am string
    dim sFFF6cript' 'Am string
    dim sFFF6cript' 'Am string

'Input file for ftp command
    aFF8criptsjoin(array(Username, Password, RemotePath, TTyp

    aFFF6criptsjoin(array(Username, Password, RemotePath, TTyp

    aFFF7criptPfilename = sFFF7criptPath & "\" & F80.OcetTempName
    ResultsTmpFilename = sFFF7cripth & "\" & F80.OcetTempName

    White the input file for the ftp command to a temporary f.
    Set fFF8cript = F80.CreateFoxtFile(ScriptTmpFilename, Tru
    fFF8cript, Witelan(sfFF8cript)
    fFF8cript, Close
    Set fFF8cript = Nothing
    end function
```

9. Add the following properties as accessors to the fields:

```
public property get FSO()
set FSOmm_oFSO
end property
public property let FSO(oFSO)
set m_oFSOmoFSO
end property
```

```
public property get LocalFile()
LocalFilesm_sLocalFile
end property
public property let LocalFile(sLocalFile)
m_sLocalFilesLocalFile
end property
                    public property get Password()
Password+m_sPassword
end property
public property let Password(sPassword)
m_sPassword+sPassword
end property
                   public property get RemotePath()
   RemotePath=m_sRemotePath
end property
public property let RemotePath(sRemotePath)
   m_sRemotePath=sRemotePath
                   public property get ResultsTmpFilename()
ResultsTmpFilenames_mResultsTmpFilename
end property
public property let ResultsTmpFilename(sResultsTmpFilename)
m_sResultsTmpFilenamevsResultsTmpFilename
end property
                   public property get ScriptTmpFilename()
    ScriptTmpFilenamem_sScriptTmpFilename
end property
public property let ScriptTmpFilename(sScriptTmpFilename)
    m_sScriptTmpFilename=sScriptTmpFilename
end property
                   public property get ScriptShell()
set ScriptShell=m_oScriptShell
end property
public property let ScriptShell(oScriptShell)
set m_oScriptShell=oScriptShell
end property
                    public property get Site()
    Site=m_sSite
                      Sitesm_sSite
end property
public property let Site(sSite)
m_sSite=sSite
end property
                   public property get TType()
TTypem_sTType
end property
public property let TType(sTType)
select case [case(sTType)
case C_ASCII, C_BIN
m_sTType=C_BIN
case else
m_sTType=C_BIN
end property
end property
         Dublic property det username()
Usernamema sUsername
end property
public property let Username(sUsername)
m_sUsername=sUsername
end property
end class
·
```

The GetFTP method is used as a constructor for the FTP object:

```
function getFTP(sSite, SUsername, sPassword)
dis oFTP
on error resume next
set oFTP=new FTP
call oFTP.init(sSite, SUsername, sPassword)
if err.numbercO then set oFTP=nothing
set getFTP=OFTP
end function
```

 Finally, in Action1, we will invoke the FTP upload function with the following code, which creates an FTP custom object (based on our class) and uploads the file.

```
dim sSite, sUsername, sPassword, sLocalFile, sRemotePath

sSite*"www.mysite.com"
sUsername*"admin"
sPassword***ympassword*
sLocalFile*"mylocalFile*, s*mylocalfile.txt"
sRemotePath*"/ftp/admin/*

set ofTPmpetTPfeSite, sUsername, sPassword)
if not ofTP is nothing then
    call ofTF.uploodFile*(sLocalFile, sRemotePath, "")
set ofTPmothing
else
    reporter.ReportEvent micFail, "FTF.uploodFile*, "Could not cree
end if
```

How it works...

First, we define the five variables required by the FTP protocol:

- \bullet $\,$ strSite: This is the URL of our FTP server
- strUsername: This is the name of our FTP account

- strPassword: This is the password for our FTP account
- . strLocalFile: This is the file to be uploaded
- strRemotePath: This is the path on our FTP account in which we put our file

We then retrieve an instance of our $\ensuremath{\mathtt{FTP}}$ class by calling the $\ensuremath{\mathtt{getFTP}}$ method with three arguments, namely, ${\tt strSite}, {\tt strUsername},$ and strPassword. A check is performed to verify that a valid object was returned, and then the ${\tt uploadFile}$ method is called with two arguments, strLocalFile and strRemotePath.

In the uploadFile method, we use these arguments to build a string with the FTP commands required to perform the upload operation. The transfer type is validated (ASCII or binary) in the \mathtt{TType} property, with binary as the default type. A call to ${\tt createFTPScript}$ writes this string to a temporary file, which then serves as input script for the FTP command. We also create a temporary filename to store the results of the upload operation.

Next, we use the WScript.Shell object to run the FTP command through the command line, in which the -n switch suppresses auto login upon initial connection, and the -s switch takes the path of the temporary script file that we created as parameter. The commands contained in such a file run automatically after FTP starts. The > operator redirects the FTP verbose output to our temporary results file. The last parameter is set to TRUE, and it indicates whether to wait until the FTP program finishes or not. After it does, we call checkResults() to read the contents of the output file and return whether our upload was successful or not according to the status returned by FTP, which is written to the file.



© 2015 Safari.

Terms of Service / Privacy Policy

Recommended / Queue / Recent / T PREV Checking whether...

NEXT Identifying eleme... ▶

y.safaribooksonline.com/) /