Upload or Get a File Using ASP.Net WCF Servic

FileUpload.rar

The scenario is that if I have one internal domain server and one DMZ machine hosted in the cloud and for some reason we upload the file then we need to save the file on the internal server.

Now let us see how ot use WCF to save the file on the internal server.

Step 1

Create a WCF project in Visual Studio.

Now open the IServices class and add the following operation contract.

```
[OperationContract]
bool UploadToTempFolder(byte[] pFileBytes, string pFileName);

[OperationContract]
byte[] GetFileFromFolder(string pFileName);
```

Open the Services.svc class and the following code.

```
public bool UploadToTempFolder(byte[] pFileBytes, string pFileName)
{
    bool isSuccess = false;
    FileStream fileStream = null;
    //Get the file upload path store in web services web.config file.
    string strTempFolderPath = System.Configuration.ConfigurationManager.AppSettings.Get("FileUploadPath");
    try {

        if (!string.IsNullOrEmpty(strTempFolderPath))
        {
            if (!string.IsNullOrEmpty(pFileName))
            {
                string strFileFullPath = strTempFolderPath + pFileName;
                fileStream = new FileStream(strFileFullPath, FileMode.OpenOrCreate, FileAccess.ReadWrite);
                // write file stream into the specified file
                using(System.IO.FileStream fs = fileStream)
                {
                    fs.Write(pFileBytes, 0, pFileBytes.Length);
                    isSuccess = true;
                }
            }
        }
    } catch (Exception ex)
    {

        throw ex;

    }

    return isSuccess;
}

This method will give you the file content as a byte.

public byte[] GetFileFromFolder(string filename)
{
    byte[] filedetails = new byte[0];
    string strTempFolderPath = System.Configuration.ConfigurationManager.AppSettings.Get("FileUploadPath");
    } else return filedetails;
}
```

Step 3

Create an empty website from Visual Studio.

Add one file upload control and one button to upload the file.

```
<table>
    <tr>
        <td>
            <span>Select File : </span>
        </td>
        <td>
            <asp:FileUpload ID="FileUpload1" runat="server" />
        </td>
    </tr>
    <tr>
        <td colspan="2">
            <asp:Button runat="server" ID="btnUpload" Text="Upload File" OnClick="btnUpload_Click" />
        </td>
    </tr>
    <tr>
        <td>
            <span>File Upload Starts on :</span>
        </td>
        <td>
            <asp:Label runat="server" ID="lblTimeStarts"></asp:Label>
        </td>
    </tr>
    <tr>
        <td colspan="2">
            <asp:Button runat="server" ID="btnGetUploadedFile" OnClick="btnGetUploadedFile_Click" Text="Get Up
            <br />
            <asp:DataList ID="DataList1" runat="server" OnItemCommand="DataList1_ItemCommand">
                <ItemTemplate>
                    <asp:LinkButton ID="LinkButton1" runat="server" CommandName="GetFile" Text="
                        <%# (string)Container.DataItem %>" />
```

```
          </td>
      </tr>
</table>
```

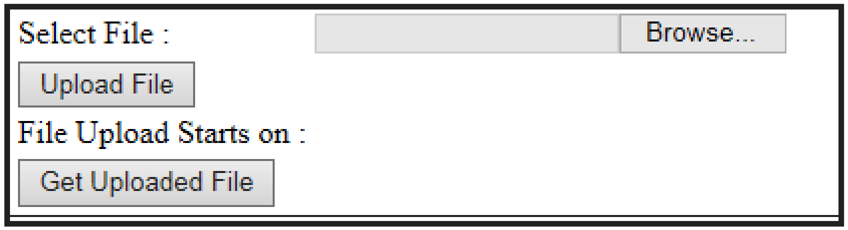
Add the service to the website. To do this right-click on the website and click on add web reference.

After adding the web reference add the following code to the button event.

```
protected void btnUpload_Click(object sender, EventArgs e)
    {
//Check file is selected or not
        if(FileUpload1.HasFile)
        {
        System.Diagnostics.Stopwatch timer = new System.Diagnostics.Stopwatch();
        timer.Start();
        //To Service
        #region Upload Files

        string filename = FileUpload1.FileName;
        byte[] filebyte = FileUpload1.FileBytes;

//Service refrence
FileUploadWCF.ServiceClient objAttachment = new FileUploadWCF.ServiceClient();

//pass the file byte to service
        objAttachment.UploadToTempFolder(filebyte, filename);
        #endregion
        timer.Stop();
        lblTimeStarts.Text = "File upload takes >>>" + Convert.ToString((TimeSpan.FromMilliseconds(timer.ElapsedMill

        writetheFileNameInText(filename,"output");
        bindUploadFile(DataList1, "output");

    }
    }
private void writetheFileNameInText(string fileName,string outputFileName)
    {

        using (StreamWriter w = File.AppendText(Server.MapPath(@"~\App_Data\" + outputFileName + ".txt")))
        {
            w.WriteLine(fileName);
```

```
private void bindUploadFile(DataList dl,string outputFileName)
  {
      List<string> lstfileName = new List<string>();


      dl.DataSource = lstfileName;
      dl.DataBind();

  }
```

Now execute the code and you will see the following screen.



After uploading the file it will show the files just below the Get Uploaded File.

Now this is in the development mode. If we host the service on IIS then we need to change the WCF binding depending on the requirements.

Please find the attached source code for WCF services and Temp web site.

ASP.Net upload file WCF Service

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