

# Impersonate user from ASP.NET – access to network file share

*Source:* <http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.general/2004-12/0982.html>

---

*From:* Michelle ([Michelle\\_at\\_bwalk.com](mailto:Michelle_at_bwalk.com))

*Date:* 12/08/04

Date: 8 Dec 2004 11:31:21 -0800

Hello!

I have an ASP.NET application (1.1 framework) that needs to be able to read/write files on a network share. The access to this file share will be fairly restricted, so I need to impersonate a specific user account on our domain in order to gain access. The impersonation is only needed for the sections that reads/writes files. I have tried using the code from <http://support.microsoft.com/default.aspx?scid=KB;EN-US;Q306158#4> and many other similar sources with no success. I do not get any errors, but I am not logged in using the username and password I provide so I cannot access the network (it remains the anonymous user). I have tried putting the impersonation code into a Class Library and calling that from the web application with the same results.

I must be doing something wrong. Any help would be appreciated.  
(see code snippets below – irrelevant code has been removed)

Thank you,  
Michelle

```
** CLASS LIBRARY **  
*****
```

```
Imports System.IO  
Imports System.String  
Imports System.Security.Principal  
Imports System.Security
```

```
Public Class PerformanceReviewAttachment
```

```
Private Shared LOGON32_LOGON_INTERACTIVE As Integer = 2  
Private Shared LOGON32_PROVIDER_DEFAULT As Integer = 0  
Private Shared impersonationContext As WindowsImpersonationContext
```

```
Declare Function LogonUserA Lib "advapi32.dll" (ByVal lpszUsername
```

microsoft.public.dotnet.general: Impersonate user from ASP.NET – access to network file share

As String, \_

```
    ByVal lpszDomain As String, _  
    ByVal lpszPassword As String, _  
    ByVal dwLogonType As Integer, _  
    ByVal dwLogonProvider As Integer, _  
    ByVal phToken As IntPtr) As Integer
```

```
Declare Auto Function DuplicateToken Lib "advapi32.dll" (_  
    ByVal ExistingTokenHandle As IntPtr, _  
    ByVal ImpersonationLevel As Integer, _  
    ByVal DuplicateTokenHandle As IntPtr) As
```

Integer

```
Declare Auto Function RevertToSelf Lib "advapi32.dll" () As Long  
Declare Auto Function CloseHandle Lib "kernel32.dll" (ByVal handle  
As IntPtr) As Long
```

```
Shared Function impersonateValidUser(ByVal userName As String,  
ByVal domain As String, ByVal password As String) As Boolean  
    Dim tempWindowsIdentity As WindowsIdentity  
    Dim token As IntPtr = IntPtr.Zero  
    Dim tokenDuplicate As IntPtr = IntPtr.Zero  
    impersonateValidUser = False
```

```
    If RevertToSelf() <> 0 Then  
        If LogonUserA(userName, domain, password,  
LOGON32_LOGON_INTERACTIVE, LOGON32_PROVIDER_DEFAULT, token) <> 0 Then  
            If DuplicateToken(token, 2, tokenDuplicate) <> 0 Then  
                tempWindowsIdentity = New  
WindowsIdentity(tokenDuplicate)  
                impersonationContext =  
tempWindowsIdentity.Impersonate()  
                If Not impersonationContext Is Nothing Then  
                    impersonateValidUser = True  
                End If  
            End If  
        End If  
    End If  
    If Not tokenDuplicate.Equals(IntPtr.Zero) Then  
        CloseHandle(tokenDuplicate)  
    End If  
    If Not token.Equals(IntPtr.Zero) Then  
        CloseHandle(token)  
    End If  
End Function
```

```
Shared Sub undoImpersonation()  
    impersonationContext.Undo()  
End Sub  
End Class
```

microsoft.public.dotnet.general: Impersonate user from ASP.NET – access to network file share

\*\* WEB FORM \*\*

\*\*\*\*\*

```
Private Sub Submit1_ServerClick(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Submit1.ServerClick
```

```
Try
```

```
    If classLibrary.impersonateValidUser("user",  
"domain", "pwd") Then  
        File1.PostedFile.SaveAs(strFileName)  
        classLibrary.undoImpersonation()  
    Else  
        Throw New ApplicationException("Failed")  
    End If  
Catch Ex As Exception  
    lblErrorMessage.Text = ex.Message  
End Try  
End Sub
```