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Thread: [\[VB.NET\] ? HWID license file auth system ? \[TUT\]](#)

Mr. Fink - August 25, 2011, 8:53 pm

? HWID license file auth system ?

This tutorial will teach you how to use a combination of HWID to protect your application from leaker

First, you create new class , and add these HWID function to it in order to call it later. Don't forget to add a reference to System.Management

Code Imports System.Management

Public Class clsComputerInfo

```
Public Shared Function GetProcessorId() As String
Dim strProcessorId As String = String.Empty
Dim query As New SelectQuery("Win32_processor")
Dim search As New ManagementObjectSearcher(query)
Dim info As ManagementObject
```

```
For Each info In search.Get()
    strProcessorId = info("processorId").ToString()
Next
Return strProcessorId
```

End Function

```
Public Shared Function GetMACAddress() As String
Dim mc As ManagementClass = New ManagementClass("Win32_NetworkAdapterConfiguration")
Dim moc As ManagementObjectCollection = mc.GetInstances()
Dim MACAddress As String = String.Empty
For Each mo As ManagementObject In moc
```

```
    If (MACAddress.Equals(String.Empty)) Then
        If CBool(mo("IPEnabled")) Then MACAddress = mo("MacAddress").ToString()
```

```
    mo.Dispose()
End If
MACAddress = MACAddress.Replace(":", String.Empty)
```

```
Next
Return MACAddress
End Function
```

```
Public Shared Function GetVolumeSerial(Optional ByVal strDriveLetter As String = "C") As String
```

```
Dim disk As ManagementObject = New
ManagementObject(String.Format("win32_logicaldisk.deviceid={0}:\"", strDriveLetter))
disk.Get()
```

```
Return disk("VolumeSerialNumber").ToString()  
End Function
```

End Class

So my class will look like this.

[\[img\]http://upic.me/i/qg/4hl42.png\[/img\]](http://upic.me/i/qg/4hl42.png)

Then we declare 3 variables to store 3 HWID by

```
Code Dim MyMacAddress As String = clsComputerInfo.GetMACAddress()  
Dim MyProcessAddress As String = clsComputerInfo.GetProcessorId()  
Dim MyVolumeAddress As String = clsComputerInfo.GetVolumeSerial()  
So MacAddress, ProcessorID, HDVolume will be stored.
```

Then we declare another variable to store the formatted HWID.

```
Code Dim TFCZ_MID As String = "TFCZ-" & MyMacAddress.Substring(MyMacAddress.Length() - 4,  
4) _  
& "-" & MyProcessAddress.Substring(MyProcessAddress.Length() - 4, 4) & "-" &  
MyVolumeAddress.Substring(MyVolumeAddress.Length() - 4, 4)  
The above code will declare TFCZ_MID to be a string with TFCZ as salt followed by last 4 string of  
MACAddress , ProcessorID , Volume.
```

The format will look like this

Code TFCZ-XXXX-XXXX-XXXX

*Note that you can change how to order those three above or change salt TFCZ into another name.

After that, we add RC4 encryption algorithm below the sub form1_load

```
Code Public Shared Function rc4(ByVal message As String, ByVal password As String) As String  
Dim i As Integer = 0  
Dim j As Integer = 0  
Dim cipher As New StringBuilder  
Dim returnCipher As String = String.Empty  
Dim sbx As Integer() = New Integer(256) {}  
Dim key As Integer() = New Integer(256) {}  
Dim intLength As Integer = password.Length  
Dim a As Integer = 0  
While a <= 255  
Dim ctmp As Char = (password.Substring((a Mod intLength), 1).ToCharArray()(0))  
key(a) = Microsoft.VisualBasic.Strings.Asc(ctmp)  
sbx(a) = a  
System.Math.Max(System.Threading.Interlocked.Increment(a), a - 1)  
End While  
Dim x As Integer = 0  
Dim b As Integer = 0  
While b <= 255  
x = (x + sbx(b) + key(b)) Mod 256  
Dim tempSwap As Integer = sbx(b)  
sbx(b) = sbx(x)  
sbx(x) = tempSwap  
System.Math.Max(System.Threading.Interlocked.Increment(b), b - 1)  
End While  
a = 1  
While a <= message.Length  
Dim itmp As Integer = 0
```

```

i = (i + 1) Mod 256
j = (j + sbox(i)) Mod 256
itmp = sbox(i)
sbox(i) = sbox(j)
sbox(j) = itmp
Dim k As Integer = sbox((sbox(i) + sbox(j)) Mod 256)
Dim ctmp As Char = message.Substring(a - 1, 1).ToCharArray()(0)
itmp = Asc(ctmp)
Dim cipherby As Integer = itmp Xor k
cipher.Append(Chr(cipherby))
System.Math.Max(System.Threading.Interlocked.Increment(a), a - 1)
End While
returnCipher = cipher.ToString
cipher.Length = 0
Return returnCipher
End FunctionAnd don't forget to add
Code Imports System.IO
Imports System.Texton the top as imports

```

Then we add

Code If (File.Exists(Application.StartupPath & "\TFC.lic")) ThenTo check that the file "TFC.lic" is existed or not, and add this to make a stream reader to read for our license key

Code Dim stream_reader As New StreamReader(Application.StartupPath & "\TFC.LIC")then we decrypted the lic file to compare with our HWID with TFC as password

Code Dim myMIDReader = rc4(stream_reader.ReadToEnd, "TFC")

stream_reader.close()After that we put

Code If (myMIDReader = TFC_MID) Then

Else

MsgBox("The license key is incorrect, please contact email@email.com for more information",
MsgBoxStyle.Critical)

End

End If

Else

MsgBox("Your machine ID is : " & TFC_MID & vbCrLf & "Your machine ID is copied to clipboard,
press ctrl+v to paste it!", MsgBoxStyle.Critical)

Clipboard.SetText(TFC_MID)

End

End Ifto check that the decrypted lic file is same as TFC_MID or not. If yes, the program run normal.

And if it's not the same , it show the msgbox that the license key is incorrect and end the application.

The next else show the machine ID and copy it to clipboard in case the license key is not found.

This is the final code in form1_load()

[\[img\]http://upic.me/i/fl/0rj63.png\[/img\]](http://upic.me/i/fl/0rj63.png)

[color=#FFD700]The keygen part

[\[img\]http://upic.me/i/zd/ykh94.png\[/img\]](http://upic.me/i/zd/ykh94.png)

Create new project and add 1 textbox and 1 button as above.

then add

Code Imports System.IO

Imports System.Text as import of the application

and add this RC4 encryption to the application

Code Public Shared Function rc4(ByVal message As String, ByVal password As String) As String

Dim i As Integer = 0

Dim j As Integer = 0

Dim cipher As New StringBuilder

Dim returnCipher As String = String.Empty

Dim sbx As Integer() = New Integer(256) {}

Dim key As Integer() = New Integer(256) {}

Dim intLength As Integer = password.Length

Dim a As Integer = 0

While a <= 255

Dim ctmp As Char = (password.Substring((a Mod intLength), 1).ToCharArray()(0))

key(a) = Microsoft.VisualBasic.Strings.Asc(ctmp)

sbx(a) = a

System.Math.Max(System.Threading.Interlocked.Increment(a), a - 1)

End While

Dim x As Integer = 0

Dim b As Integer = 0

While b <= 255

x = (x + sbx(b) + key(b)) Mod 256

Dim tempSwap As Integer = sbx(b)

sbx(b) = sbx(x)

sbx(x) = tempSwap

System.Math.Max(System.Threading.Interlocked.Increment(b), b - 1)

End While

a = 1

While a <= message.Length

Dim itmp As Integer = 0

i = (i + 1) Mod 256

j = (j + sbx(i)) Mod 256

itmp = sbx(i)

sbx(i) = sbx(j)

sbx(j) = itmp

Dim k As Integer = sbx((sbx(i) + sbx(j)) Mod 256)

Dim ctmp As Char = message.Substring(a - 1, 1).ToCharArray()(0)

itmp = Asc(ctmp)

Dim cipherby As Integer = itmp Xor k

cipher.Append(Chr(cipherby))

System.Math.Max(System.Threading.Interlocked.Increment(a), a - 1)

End While

returnCipher = cipher.ToString

cipher.Length = 0

Return returnCipher

End Function

then double click at the button and add this code

Code Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles Button1.Click

Dim write_file As New StreamWriter(Application.StartupPath & "\TFC.lic", False)

write_file.Write(rc4(TextBox1.Text, "TFC"))

write_file.Close()

End Sub*Note that the password "TFC" must be the same as your application and keep it private or else anyone can generate your lic file :D . You can freely change the order or salt . Don't forget to obfuscate your application to prevent viewing through reflector and keep your keygen private.

That's it! Have fun :D

Ap?? - August 25, 2011, 8:57 pm

Great HQ tutorial, I recommend for you to keep this up, Amazing work!

Mr. Fink - August 25, 2011, 9:04 pm

(Aug 25, 2011 08:57 PM)Ap. Wrote: [\[CITE\]](#) Great HQ tutorial, I recommend for you to keep this up, Amazing work!

Thanks mate, enjoy. Hope I helped. ?

Coleak - August 25, 2011, 9:40 pm

Awesome tutorial, but i suggest you remove the code, and keep the pictures, a small anti-copypaste measure.

mrstean - December 28, 2011, 9:25 am

Amazing tutorial !

Right now im typing everything in my project Love u :D

????? - December 28, 2011, 9:31 am

Very good tutorial, nice job.

Of course you would have to build on this but yea. =)

fillobotto - January 15, 2012, 9:52 am

i will implement my system with MAC address function ;) thank you

King of Hearts - March 19, 2012, 6:28 pm

Hey,
Nice tutorial. However, I am new to vb and have a question. What's the difference between the first part and the second set of code? So what's the difference between the keygen and the first part. Do I implement the first part in my application? Thanks for helping me.

Padawan of VB - March 19, 2012, 6:33 pm

Really nice Tutorial - my advice, just use pictures so there's no chance for c&p :) ! keep working

Vamprrr - March 19, 2012, 7:24 pm

this looks really cool, is it easy to crack into?

Deceptive - March 19, 2012, 7:27 pm

(Mar 19, 2012 07:24 PM)IlyGreenz Wrote: [\[CITE\]](#) this looks really cool, is it easy to crack into? Yes, it's just a simple patch. It's only one check.