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ECNS 425

DEFCON Jeopardy Proposal

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The question will be “This is the password.” The solution will be “What is...” well its not a simple phrase or code, the password changes depending on the day. The password is the date. d/m/yyyy

The user will run a windows executable that will have a prompt to enter a password. If the password is correct, the user will be congratulated. If the user is incorrect, the program will offer another chance to enter the correct password. The solution will be dependent on what day it is on the pc it is running on. To throw off the reverse engineer, the program also looks up multiple registries.

This program was created in Visual Studio 2008. I am hoping the overhead from the “fluff” that VB packs the programs with will also through off the user. As off today, I haven’t been able to get IDA Pro or PEid to reverse engineer the exe.

Here is the code:

Imports System

Imports Microsoft.Win32

Public Class Form1

Private Sub Label1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label1.Click

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

prompt.Text = "Please enter the password."

End Sub

Private Sub Button1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click

Dim rk As RegistryKey = Registry.Users

Dim names As String() = rk.GetSubKeyNames()

Dim i As Int32 = 0

While (i < UBound(names))

If (TextBox1.Text = names(i)) Then

Console.WriteLine("WEE!")

End If

i = i + 1

End While

If (TextBox1.Text = (Date.Today.Month.ToString() & "/" & Date.Today.Day.ToString() & "/" & Date.Today.Year.ToString())) Then

ami.ForeColor = Color.LightGreen

ami.Text = "SUCCESS!"

Else

ami.ForeColor = Color.DarkRed

ami.Text = "FAIL"

End If

End Sub

Private Sub TextBox1\_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox1.TextChanged

End Sub

End Class

Note this part of the code:

Private Sub Button1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click

Dim rk As RegistryKey = Registry.Users

Dim names As String() = rk.GetSubKeyNames()

Dim i As Int32 = 0

While (i < UBound(names))

If (TextBox1.Text = names(i)) Then

Console.WriteLine("WEE!")

End If

Is only to throw off the reverse engineer. The real code that checks for the date is this section:

Date.Today.Day.ToString() & "/" & Date.Today.Year.ToString())) Then

ami.ForeColor = Color.LightGreen

ami.Text = "SUCCESS!"

Else

ami.ForeColor = Color.DarkRed

ami.Text = "FAIL"

The correct password is d/m/yyyy (3/6/2008). I had to do some research on how to look up registry values. I’ve discovered that its quite easy to look up and modify, and even add registry values. This could easily be used for malicious intent.