Operation Cloud Hopper

Indicators of Compromise

Annex A

5 April 2017 (v2)

In collaboration with

BAE SYSTEMS
INSPIRED WORK

pwc

Note

We initially provided our entire Indicators of Compromise (IOC) dataset for APT10. Following feedback from industry partners we have updated this list with a number of additional IOCs and removed some historic data. The previous data set, including our historic indicators, is available on request from our Threat Intelligence team (threatintelligence@uk.pwc.com), but please be aware that this may cause false positives on some IT environments.

Host Based IOCs

[digits].plg	Filename
atexec.exe	Filename
detect.vbs	Filename
gothic.dat	Filename
handkerchief.dat	Filename
IEChecker.exe	Filename
logmeinsystrays.dat	Filename
mfeann.data	Filename
microsoft.workflow.compiler.dat	Filename
msseces.asm	Filename
NvSmart.hlp	Filename
obedience.exe	Filename
schf.its	Filename
secretsdump.exe	Filename
SFCNS.dat	Filename
starburn.dll	Filename
t.vbs	Filename
Vba32ar.cab.dat	Filename
Vba32arch.dll	Filename
wpf-etw.dat	Filename
%ALLUSERSPROFILE%\\SxS	File Path
%USERPROFILE%\AppData\Local\Temp\winsyslog\mPclient.dll	File Path
%USERPROFILE%\AppData\Local\Temp\winsyslog\msseces.asm	File Path
%USERPROFILE%\AppData\Local\Temp\winsyslog\msseces.exe	File Path
%USERPROFILE%\\AppData\Roaming\notron.exe	File Path
C:\recovery\csvde.exe	File Path
C:\recovery\lockdown.dll	File Path
C:\recovery\mfeann.exe	File Path
C:\recovery\mpsvc.dll	File Path
C:\recovery\MsMpEng.exe	File Path
C:\recovery\nbt.exe	File Path
C:\recovery\nosystem.exe	File Path
C:\windows\system32\RedLeaves.exe	File Path
C:\Windows\Temp\winsyslog\mPclient.dll	File Path
C:\Windows\Vss\Setup.exe	File Path
C:\Windows\Vss\SetupEngine.dll	File Path
C:\Windows\Vss\SFCNS.dat	File Path

&#@tz931(	Mutex
0mm7b2k8c	Mutex
2156jsdkh	Mutex
54bc6939a1de55fd	Mutex
a85edfea9aa3f292	Mutex
c516394560dfdc20	Mutex
cvxcbcbvw	Mutex
Deosodlwfiadlkfajksllw	Mutex
DF#EGDGFD	Mutex
DY&F*#KJK	Mutex
g6nncn1m1	Mutex
jfkgjr$##	Mutex
K!@DKFK#*	Mutex
RedLeavesCMDSimulatorMutex	Mutex
vv11287GD	Mutex
\.\pipe\NamePipe_MoreWindows	NamePipe
HKEY_CURRENT_USER\SOFTWARE\EGGORG	Registry Keys
HKCU\Software\Classes\VirtualStore\MACHINE\Software\rar\e	Registry Keys
HKCU\Software\Microsoft\Windows\CurrentVersion\Run\ISeC Croot Readr	Registry Keys
HKCU\Software\rar\ActiveSettings	Registry Keys
HKCU\Software\rar\data	Registry Keys
HKCU\Software\rar\e	Registry Keys
HKCU\Software\rar\s	Registry Keys
HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\pedetdata	Registry Keys
HKEY_LOCAL_MACHINE\Software\CLASSES\MJ	Registry Keys
HKEY_LOCAL_MACHINE\Software\CLASSES\MJ\PROXY	Registry Keys
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\pedetdata	Registry Keys

Domains

002562066559681.r3u8[.]com
031168053846049.r3u8[.]com
0625.have8000[.]com
1.gadskysun[.]com
100fanwen[.]com
11.usyahooapis[.]com
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document.shenajou[.]com
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download.windowsupdate.authorizeddns[.]org
download.windowsupdate.dedgesuite[.]net
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jp.rakutenmusic[.]com
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