29/12/2012 BY WOW

Attack and IE Oday Informations Used Against Council on Foreign Relations cil on Foreign Relations (CFR.org), a foreign policy web group,

has been victim of a targeted attack who seem to be linked to computer hackers traced to China. Regarding information's posted on the Washington Free Beacon

infected CFR.org website was used to attack visitors in order to extract valuable information's. The "drive-by" attack was detected around 2:00 pm on Wednesday 26 December and CFR members who visited the website between Wednesday and Thursday could have been infected and their data compromised, the specialists said Through Washington Free Beacon news we know that only Internet

Explorer 8 and higher versions have been targeted. A possible Internet Explorer Oday was used to infect visitors computers. We also know that the attack was limited to CER members and website visitors who used browsers configured for Chinese language characters. As always, I was curious and tried to have more information's regarding this attack and potential Oday

urlQuery.net investigations

On $\ensuremath{\textbf{uriQuery.net}}\xspace$, we can see that the first submission was done, the 20December. More interesting is the <u>submission of 21 December</u> on URL

"/js/js/news_123432476.html"."/js/js/" directory seem to be a strange behavior. We can see that a "deployJava.js" was involved by loading this page Other URLs are interesting like "/js/js/robots.txt", "/js/js/today.swf", "/js/js/news_435435s.html" but all these URLs have been submitted the 27 December and after, and the file are no more available.

On jsunpack we can observe that the "deployJava.js" was submitted

the 26 December. All other files have been submitted the 27 December and after, and the file are no more available. On CLEAN MX we can observe an analysis the 20 December.

Why so many parallel submission ? Ok guys, the infection has started since minimum the 20 December, so not since Wednesday 26 December. Now, if you have some skill in researching information's and

if you are still curious, you will find part of the "drive-by" attack source

code. By doing some additional researches I found the source code of the "drive-by" attack, and I can confirm you that this attack has started since minimum the 7 December! Let analyze this source code. I can confirm that only visitors with Internet Explorer 8 and higher

expiration of the cookie

targeted.

f (ua.index0f('msie 8.0') <0) But, a fact who was not pointed is if the visitor don't has Adobe Flash,

he will not be part of the party, Flash free Internet Explorer are not

Chinese language characters were targeted, but also Taiwanese and

if(h!="zh-cn" && h!="en-us" && h!= "zh-tw" If you load the malicious page for the first time, a "visit" named cookie is create with a lifetime of 7 days through the "DisplayInfol)" function. If

you have already a cookie, you will no more be exploited until the

Then the page is loading the "download" Javascript function. This

function is trying a XML HTTP request to a "xsainfo.jpg" file. After some discussion with biblioging, it could be that "xsainfo.jpg" maybe just a clean

file, ajax trick to call the "callback" function.

"xsainfo.jpg" file is maybe "320e0729e1a50fd6a2aebf277cfcad66" found on VirScan and VirusTotal. This file was submitted the 13

that a "200" HTTP status code has been returned.

The "callback" function verifies if the "xsainfo.jpg" has been loaded and

If the visitor operating system is Windows 7 or Windows 2008 R2, an Office document is opened through the "SharePoint.OpenDoc ActiveX control. Depending the way the document is opened the "key



if ((typeof ma) == "object" && (typeof mb) == "object") {
 key = "girl"; }
else if ((typeof ma) == "number" && (typeof mb) == "object") {
 key = "boy";



payload, "news.html" used to trigger the vulnerability. So if Oday exist, this Oday is surely in "news.html" file, and it is also sure that this targeted attack has not begin on Wednesday, not only targeted visitors who used browsers configured for Chinese language characters.

I keep you in touch if I have additional information's regarding this

potential new Internet Explorer Oday.

Update 1 – 12/29 2am:

Unfortunately, actually I didn't find these two files, but after more discussions with <u>@binjo</u> it could be that the swf is used to setup

 $\label{prop:prop:prop:some} \textbf{FireEye} \ \textbf{has} \ \textbf{post} \ \textbf{some} \ \overline{\textbf{additional information's}} \ \textbf{regarding the attack.} \ \textbf{It}$ seem that "today.swf" trigger a heap spray in Internet Explorer in order to complete the compromise. Once the browser is exploited, it appears to download "xsainfo.jpg," which is the dropper encoded using singlebyte XOR (key: 0x83, ignoring null bytes).

What is also new regarding FireEye blog post is that their version is targeting English (U.S.), Chinese (China), Chinese (Taiwan), Japanese,

Korean, or Russian. My version of 7 December was only targeting English (U.S.), Chinese (China), Chinese (Taiwan), so the guys had time to release new version of they're code during this elapse of time. Also they didn't mention the news.html file.

Update 3 - 12/29 6pm:

attack and the Oday.

@binjo has release further information's regarding "new IE Oday coming-mshtml!CDwnBindInfo object use after free vulnerability" Also, I can observe that a certain number of people have samples of the Oday, I could not imagine that an active exploit will not be out before the end of the year.

Update 4 - 12/29 10pm: @_sinn3r is on the way to deliver a Metasploit module for the CFR.org Oday exploit.

Microsoft has release MSA-2794220 and confirm the vulnerability targeting Internet Explorer 6, Internet Explorer 7, and Internet Explorer 8. Internet Explorer 9 and Internet Explorer 10 are not affected by the vulnerability. CVE-2012-4792 has been assigned to this vulnerability

AlienVault has publish more detailed information's regarding the

Undate 6 - 12/30 2ams Metasploit team has release the Microsoft Internet Explorer Oday https://twitter.com/_juan_vazquez_/status/285186813637849088

Update 7 - 12/30 11am:

on 7 Dec 2012 14:12:28 GMT

Update 5 – 12/30 00am:

 Helps.html (a25c13d4edb207e6ce153469c1104223)
 news.html (76d14311bae24a40816e3832b1421dee) • robots.txt (96b01d14892435ae031290cd58d85c2e)

A Deeper Look In CVE-2012-4792 Watering Hole Campaigns - Alliap Chapter This post is a small part of an in-depth analysis of the watering hole campaign of December

Here under is the code version I found in Google cache as it appeared

Microsoft Internet
Explorer CButton
Vulnerability Metasploit Microsoft Release
Security Advisory MSA2794220 for CFE
Internet Explorer Oday
30/12/2012

Security Advisory MSA2794220 for CFE
Internet Explorer Oday
30/12/2012

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Involving an Internet
Involving an Internet
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EXPLOITS

Pingback: Microsoft Internet Explorer 6/7/8 mshtml!CDwnBindInfo???????????? Pingback: VU#154201: Microsoft Internet Explorer CButton use-after-free vulnerability | Varanoid.comVaranoid.com Pingback: It Marks the End of 2012 « Y.C's Blog Pingback: [CVE-2012-4792]IE ODAY - CDwnBindInfo Object Use-After-Free

APT, CFR, CHINA, COUNCIL ON FOREIGN RELATIONS, CVE-2012-4792, IE ODAY, INTERNET EXPLORER, INTERNET EXPLORER ODAY, KB2794220, MICROSOFT, MSA-2794220, WATERING HOLE ATTACKS

xsainfo.jpg is the XOR encrypted payload (0x83, ignoring null bytes) **SecObscurity**

RT @eromang: Attack and #Microsoft IE #0day Informations Used Against Council on Foreign Relations http://t.co/4NxuCJcxd#infosec

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vulnerability | Varanoid.comVaranoid.com

FOREAL

29/12/2012 AT 12:10

shu_tom

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@eromang Attack and #Microsoft IE #0day Informations Used Against Council on Foreign Relations http://t.co/lvDFKBLU detailed analysis

RT @eromang: Attack and #Microsoft IE #0day Informations Used Against Council on Foreign Relations $\underline{\text{http://t.co/4NxuCJcx}}$ #infosec

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29/12/2012 AT 09:29

29/12/2012 AT 07:46

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RT @eromang: Attack and #Microsoft IE #0day Informations Used Against Council on Foreign Relations http://t.co/4NxuCJcx #infosec

yomuds 29/12/2012 AT 03:14

@eromang hi. it is on robots.txt for the trigger, at least inside of one my sample. news.html will do some replace chars and will load it michaelmcg19

29/12/2012 AT 02:44

PREVIOUS

29/12/2012 AT 02:45

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