

Another look at Niteris : post exploitation WMI and Fiddler checks

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2015-05-12 - Study



In this post we'll see some of the improvements that have been brought to Niteris.

Disclaimer : *Few configuration were tested, so most probably some [added/replaced](#) CVEs are missing.*

The infection chain (should be clean now) :

is the same as the one that has [been used](#) on eHow

You'll notice that the actors registered 20min .eu for the first redirect of traffic from 20min .ch, v5-static.ehowcdn .biz to mimic v5-static.ehowcdn .com, etc...



Niteris firing code to exploit CVE-2014-0569

Flash Sample : [22ea8dd623c0f44e352ac7f3618a918b1f52a14552eec6c2d10ce0ff744bb66f](#)

CVE-2014-6332 :



Niteris firing code to exploit CVE-2014-6332

Sent code : <http://pastebin.com/raw.php?i=2hU1kDi6>

Code after js deobfuscation : <http://pastebin.com/B5ihgEgy>

Code after vbs deobfuscation : <http://pastebin.com/wrBeGxzM>

CVE-2015-0311 :



Niteris successfully exploiting CVE-2015-0311 to push Ursnif
2015-05-07

Flash Sample : [d438be33030b2ed20a3db52031e110034119111cb116ab58bd393da49d6d0efe](https://www.dontneedcoffee.com/2015/05/another-look-at-niteris-post.html)

CVE-2015-0336 :



Incomplete pass of Niteris Firing CVE-2015-0336

2015-05-04

Flash Sample : [d3a08acd97ee8f9d9fe0e530e34c42bb7d6e78c89021725393116bd5b5907df2](https://www.exploit-db.com/exploits/1710/)

but here are some less expected stuff :

CVE-2013-1710 & CVE-2012-3993 (Firefox Exploit - seems to be an implementation of [this metasploit module](#))



Niteris sending code to exploit CVE-2013-1710 & CVE-2012-3993
2015-05-07

Post exploitation AntiVM / Fiddler :



Niteris call for post exploitation checks

Note fake user agent.

2015-05-07

Sent code : <http://pastebin.com/mCu7AzGh>

Code after js deobfuscation : <http://pastebin.com/UV51KECp>

Code after vbs deobfuscation : <http://pastebin.com/VE4L48cz>

So after exploitation some WMI checks are made to gather data on the system (Security Center, running processes...)



Niteris Checks based on WMI query and read of Fiddler default error on non resolving domains
2015-05-07

If Niteris spot that you are running Fiddler or inside a VM, you'll be dropped before gathering the payload.

Here you can see a Virtualbox using Fiddler as proxy sending data to the EK



Niteris after close() function post Data showing that it has spotted both VirtualBox and Fiddler (outside of the VM)
2015-05-07

Fiddler Side note :

Looking at the customrules.js you'll read that this function "OnReturningError(oSession: Session)" executes just before Fiddler returns an error.

This is where the Niteris check can be defeated by modifying the response.

In the deofuscated code,we can see the decoding routine :



Payload decoding routine

Xor (key [g_xk] : 97dc6e7aaa9c089d0ed82ebfd9fca4fe)

skipping 0 and matching bytes

The script is also using WMI to ensure the payload has been properly executed



Niteris routine to ensure payload is running as expected

2015-05-07

Once done a call back (with post data) is made to the EK

(contains Model and Security products. They should be able to figure out when an Antivirus Vendor is catching them, the same way Antivirus Vendor are able to figure out when they miss an EK : no more hits in the telemetry :D)

[Edit 2015-09-15 :]

Note that depending on IntegrityLevel of the process, the drop won't be executed the same way.

```
g_ulvl = intlvl_identifer();
```

```
var f, Paths = (g_ulvl) ? ['%commonprogramfiles%\System\%', '%allusersprofile%\Microsoft\Windows\%', '%allusersprofile%\%', '%appdata%\Microsoft\%', '%userprofile%\%', '%tmp%\Low\%', '%tmp%\acro_rd_dir\'] :
```

```
[%appdata%\..\LocalLow\, '%userprofile\AppData\LocalLow\'];
```

With UAC deactivated :



rundll32 SHELL32.dll,ShellExec_RunDLL "C:\Windows\SysWOW64\rundll32" "C:\Program Files (x86)\Common Files\System\Windows6.1-KB9739367-x64.sys",DllRegisterServer and a Post call back like : /crash/report/0/11111/With UAC activated :



and a Post call back like : /crash/report/0/11110/

[/Edit]

Files: [Niteris 2015-05-12.zip](#).

Thanks to @[UnicornSec](#) for the working Referer

Special thanks to @[DarienHuss](#) for the impulse and help!

Thanks to @[TimoHirvonen](#) (F-Secure) for flash CVE identification.

[Edit 2015-09-10 : Got another encounter]

Files: [Fiddler and payload here](#) (password malware)

Summup of the filtering.



Niteris - 2015-09-10 - Multi-layer filtering.

This is being done the right way :)

[/Edit]

Read More :

Source: <https://malware.dontneedcoffee.com/2015/05/another-look-at-niteris-post.html>