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FIN7 Not Finished – Morphisec Spots New Campaign

Posted by Michael Gorelik on November 21, 2018

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This blog was co-authored by Alon Groisman.



It seems like the rumors of FIN7's decline have been hasty. Just a few months after the well-publicized indictment of three high-ranking members in August, Morphisec has identified a new FIN7 campaign that appears to be targeting the restaurant industry.

FIN7, also known as Carbanak, is one of the major threat groups tracked by Morphisec and numerous other security entities, and among the top three

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in the first and second weeks of November. These campaigns follow patterns similar to those presented by FireEye in August but with just enough variations to bypass many security vendors.

Preemptive Security Solutions

Technical Description

Why Should You Care About In-Memory Attacks?

The initial document was probably sent within the Baltic region (or tested there). It was submitted to VirusTotal from Latvia. The name of the document translated from Russian is "new questioner". It is password-protected with the password: *"goodmorning".*

Windows Server 2012 End of Life — How do You Secure Legacy Servers?

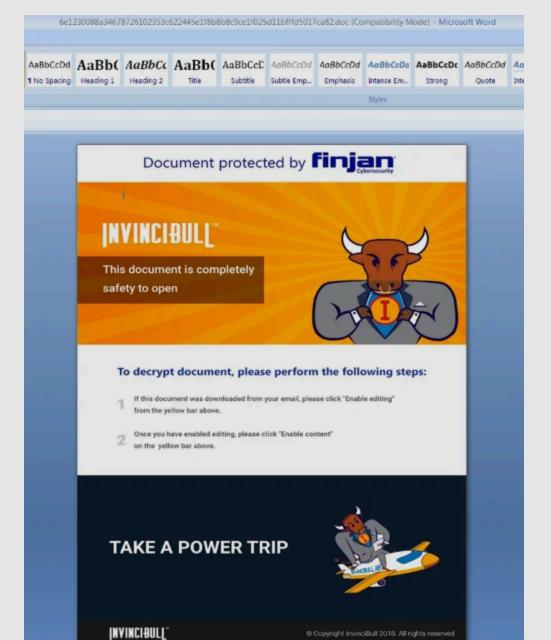
Tech Evaluation: Automated Moving

Oprosnik_new.doc

Target Defense Research Guide Dethroning Ransomware:

6e1230088a34678726102353c622445e1f8b8b8c9ce1f025d11bfffd5017ca82)

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Threat Analysis: Morphisec Protects Against PEAKLIGHT In-Memory Malware

Vulnerability Whisperer: Turning Headaches to High-Fives

It uses social engineering to convince the recipient to enable macros through the use of the images, logo and tagline of a newly launched, legitimate VPN tool InvinciBull by cybersecurity company Finjan.

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If the "enable macro" button is activated, the following obfuscated Macro runs and the next stage obfuscated JavaScript is extracted from the form caption, similar to the last several FIN7 campaigns.

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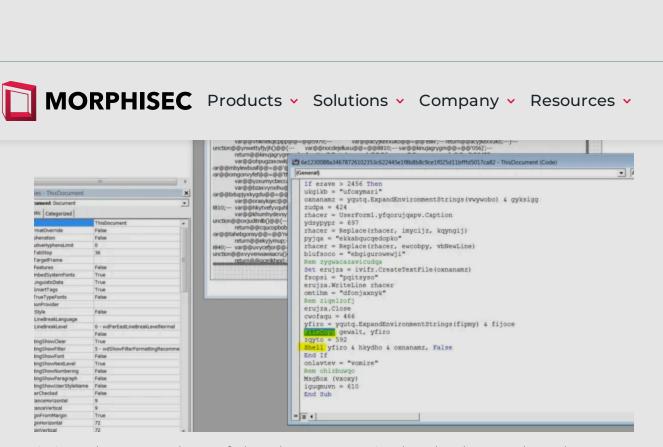
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Examining the metadata of the document, it clearly shows that the document was created on the 11.02.2018:

Following deobfuscation of the macro, we notice known FIN7 patterns of executing JavaScript from VBScript with the slight modification of copying the wscript.exe file and renaming it to mses.exe. This may allow it to bypass some EDR solutions that are tracing WScript by name.

Below is the obfuscated JavaScript that is written to the temp directory as *error.txt* file. The obfuscation pattern is similar to previously seen FIN7 patterns and most probably is a derivation of the same obfuscation toolkit.

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```
var alrajkafgypxa = '";va';
       var udvirekpofv = 't * ';
3879
     function ahowkopmajo() {
          var onxylivbohupj = 2842;
var obebsykhete = ' = 0';
           return obebsykhete;
3884
3885 □function optynelqakp() {
          var armufytyv = 7364;
var vifadlexo = 'peof';
           return vifadlexo;
3889 1
3890 □function atjosobgyca() {
          var abogmehevi = 5712;
var vipyqeder = 'onen';
          return vipyqeder;
3894 1
      var gatjobyvrydy = ' "fe';
3896
3897 pfunction ufabuliw() {
        var avrewoted = 1284;
3898
3899
           var exubfokcexm = 'y (v';
          return exubfokcexm;
3901 1
3902 var urujdivuwtos = 'uest';
      var nmacridvussabx = 'rue)';
3904 var ivbanoxsacdup = 'ct(g';
3906 pfunction yjehutamcysk() {
3907
          var bameveqoty = 5328;
           var ajycixahvu = 'Obje';
3908
3909
           return ajycixahvu;
3910 L)
3911 pfunction ehunejkoxydv() {
3912
           var uqsemcebuhyt = 6649;
3913
           var owfefdydlucna = 'pt";';
3914
           return owfefdydlucna;
3916 □function syqiwefpani() {
           var etesqunibw = 2985;
           var hifokequwga = 'var ';
           return hifokequwga;
3920 1
      eval(efyqsoltel() + qochahcuku + mevmifijqogc() + odgypvikaje() + dvejkomykus
```

Deobfuscated JavaScript

The deobfuscated JavaScript is actually a backdoor component that directly communicates to the C2 server (in this case hxxps://bing-cdn[.]com). It executes the response which is yet another JavaScript command, which can be evaluated by eval. Although there have been slight modifications in the Macro delivery in the last couple of campaigns, the JavaScript backdoor stays the same, including its communication protocol.

During the first request, the MAC address and the computer domain are also delivered to the target C2. We believe that the next stage is only delivered to specific targets based on domains as the data that is delivered in the first request is very limited.

```
### Canalities crypt_controller(type, request) {

| Transities crypt_controller(type, request) {
| Transities crypt_controller(type, request) {
| Transities crypt_controller(type, request);
| Transities crypt_controller(type, request);
| Transities crypt_controller(type, request);
| Transities crypt_controller(type, request.psit(f):"];
| Transities controller(type, request.psit(f):");
| Transities controller(type, request.f):
| Transities controller(type, request.f):
| Transities controller(
```

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NULNULNULC:\Users\Administrator\Downloads\InkEd.dllEOTNULNULNU

LNULNULNULNUL1

Additional Samples

After this search, we identified more samples that were created just a couple of days ago and point to a known C2 registered to the same entity (hxxps://googleapi-cdn[.]com)

Below is a summary of information for one of those documents:

The document was submitted from Ukraine (yet another former soviet union country) with the name "dinners.doc"

(f5f8ab9863dc12d04731b1932fc3609742de68252c706952f31894fc21746bb8).

The document again uses the social engineering technique of spoofing a known and trusted entity to convince the victim to enable macros.



Based on the submission date and creation time, the document is sent to the target within 2-3 days.

The macro is nearly identical to that described above except that wscript-

>script errors->settings has multiple captions instead of a single one

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The JavaScript backdoor is decrypted into a similar backdoor:

```
| Distribution crypt controller(type, request) {
| www.encryption.key="":
| if (type=="""""" interpretation | temperation | temp
```

Conclusion

Like the Hydra, cutting off one, or even three, heads of FIN7 barely slows it down. With the holiday rush nearly upon us, we expect the threat group to step up its activities to take advantage of increased email traffic flow and seasonal staff that may be less security conscious. Workers in any industry should stay vigilant against social engineering methods – although with today's highly targeted campaigns this can sometimes be tough to spot. And never enable macros unless you are 100 percent certain that the file is safe.

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