CYBERSECURITY TRENDS, EXPLORING MOVING TARGET DEFENSE AND PUTTING ENDPOINT THREAT PREVENTION FIRST

FIN7 NOT FINISHED - MORPHISEC SPOTS

MOVING TARGET DEFENSE BLOG

NEW CAMPAIGN Posted by MICHAEL GORELIK on November 21, 2018

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This blog was co-authored by Alon Groisman. EIN7 **ATTACK ANALYSIS**

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 criminal computer intrusion cases that the FBI is currently working. FIN7 is composed of a very sophisticated network of developers and hackers and brings in an estimated \$50 million a month. They target very specific industries, hospitality - hotels and restaurants - being one of them, and are behind a string of high $profile\ breaches\ including\ Red\ Robin,\ Chili's,\ Arby's,\ Burgerville,\ Omni\ Hotels\ and$ Saks Fifth Avenue, among many others.

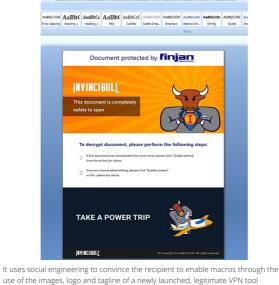
FIN7 is known for its stealth techniques and ability to continuously evade security systems. In the case of Burgerville, malware sat on the company's network $% \left\{ 1,2,...,n\right\}$ collecting payment data for nearly a year before it was discovered. And that was only due to an FBI investigation. In this blog post, we present our findings on two campaigns, which occurred 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. **TECHNICAL DESCRIPTION**

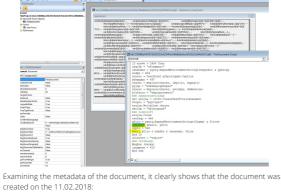
The initial document was probably sent within the Baltic region (or tested there). It

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". Oprosnik_new.doo

6e1230088a34678726102353c622445e1f8b8b8c9ce1f025d11bfffd5017ca82)



InvinciBull by cybersecurity company Finjan. 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.





are tracing WScript by name. Attribute VS_Name = "ThisDocament"
Attribute VS_Name = "ThisDocament"
Attribute VS_Date = "INGURAL TRIBUTE
Attribute VS_Creatable = Taise
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Attribute VS_Creatable = Taise
Attribute VS_TemplateDurited = True
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Attribute VS_Controll=Attribute = True
Attribute VS_Controll=Attribute = True
Attribute VS_Controll=Attribute = True

```
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
```

Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

probably is a derivation of the same obfuscation toolkit.



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.

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 $\ensuremath{\mathsf{T}}$

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if type === "ecrypt" } {
 result_string = result_string = ":"(" = encryption_bey
 result_string = encodeDZComponent(result_string); ethine pst jeth O. [

ver pethes ['import', 'import', 'content', 'fetch', 'con'];

ver pethes ['import', 'import', 'content', 'fetch', 'con'];

ver files = ['contel.logo', 'con', import', 'content.logo', 'chico jet', 'show jet', 'show

YARA RULES Some additional observations that can be used to create Yara-rules for this campaign are the locations of the loaded VBControl files that are written in clear text as part of the document files: NUIC:\Users\Administrator\Downloads\InkEd.dllEOTNUI

country) with the name "dinners.doc"

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) The document was submitted from Ukraine (yet another former soviet union

(f5f8ab9863dc12d04731b1932fc3609742de68252c706952f31894fc21746bb8).

ering technique of spoofing a known

uses the social eng

and trusted entity to convince the victim to enable macros.





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

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