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The Cobalt group is exploiting the CVE-2017-11882 Microsoft Office flaw in targeted attacks

November 26, 2017 By Pierluigi Paganini

A few days after details about the CVE-2017-11882 Microsoft Office flaw were publicly disclosed, the firm Reversing Lab observed Cobalt group using it.

A few days after details about the CVE-2017-11882 Microsoft Office vulnerability were publicly $disclosed, security\ experts\ from\ firm\ Reversing\ Lab\ observed\ criminal\ gang\ using\ it\ in\ the\ wild.$

The gang is the notorious Cobalt hacking group that across the years targeted banks and financial institutions worldwide.

17 years, including the latest Microsoft Office 365. The vulnerability could be triggered on all versions of Windows operating system, including the latest Microsoft Windows 10 Creators Upda



The CVE-2017-11882 flaw was discovered by the security researchers at Embedi, it affects the MS conent EQNEDT32.EXE that is responsible for insertion and editing of equations (OLE

The component fails to properly handle objects in the memory, a bug that could be exploited by the attacker to execute malicious code in the context of the logged-in user.

The EQNEDT32.EXE component was introduced in Microsoft Office 2000 seventeen years ago and affects Microsoft Office 2007 and later because the component was maintained to maintain the backward compatibility

According to Reversing Labs, the Cobalt group is now targeting organizations with malicious email using specifically crafted RTF documents that trigger the CVE-2017-11882 flaw.

The availability online of many exploits of the of CVE-2017-11882 will allows threat actors to rapidly use the hacking code in their operations.

Other proof of concept (PoC) exploits are available online

- https://github.com/embedi/CVE-2017-11882
- https://github.com/Ridter/CVE-2017-11882
- https://github.com/unamer/CVE-2017-11882

and load a malicious DLL file.

"The starting point of our analysis was an RTF seen in the wild: bc4d2d914f7f0044f085b086ffda0cf2eb01287d0c0653665ceb1ddbc2fd3326

Using MS Equation CVE-2017-11882, it contacted

hxxp://104.254.99[.]77/x.txt

for first-stage payload, executed through MSHTA" reads the analysis published by ReversingLabs.

ads the next stage payload from hxxp://104.254.99[.]77/out.ps1"

The script drops the embedded final second-stage payload - Cobalt, one 32-bit or second 64-bit DLL,

d8e1403446ac131ac3b62ce10a3ee93e385481968f21658779e084545042840f (32-bit)

fb97a028760cf5cee976f9ba516891cbe784d89c07a6f110a4552fc7dbfce5f4 (64-bit)

The analysis published by the security firm includes IoCs and also Yara rules to detect the threat

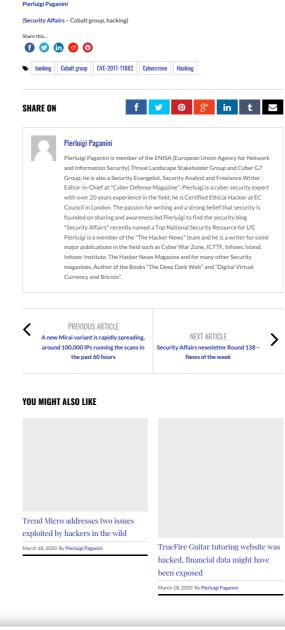
The Cobalt group has already exploited Microsoft bugs in past campaigns, for example the RCE vulnerability tracked as CVE-2017-8759 that was fixed by Microsoft in the September 2017 Patch Tuesday

The Cobalt group was first spotted in 2016 when it was spotted targeting ATMs and finance of the cobalt group was first spotted in 2016 when it was spotted targeting ATMs and finance of the cobalt group was first spotted in 2016 when it was spotted targeting ATMs and finance of the cobalt group was first spotted in 2016 when it was spotted targeting ATMs and finance of the cobalt group was first spotted in 2016 when it was spotted targeting at the cobalt group was first spotted in 2016 when it was spotted targeting at the cobalt group was first spotted in 2016 when it was spotted targeting at the cobalt group was first spotted targeting at the cobalt group was first spotted targeting at the cobalt group was first spotted targeting at the cobalt group was at the cobalt group was first spotted targeting at the cobalt group was first sp institutions across Europe, later it targeted organizations in the Americas and Russia

To protect their systems, administrators should apply the Windows updates KB2553204, KB3162047, KB4011276, and KB4011262, included in the November 2017 Patch Tuesday







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