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MARCH 26, 2015

Intelligence Report: Equation Group





SHARE Executive Summary

The Equation Group, active since 2001, is a highly advanced and secretive [//www.facebork/gam/sharsphrßlished by Kaspersky during their 2015 Security Analyst u=https%3A%2F%2Fblog.checkpoint.com%2Fsecurity%2Fintelligence-report-equation [author/patientelligence-report-equation [author/patientelligence-with part of the company of the property of the



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url=https%3A**9XeCYFBW**g.checkpoint.com%2Fsecurity%2Fintelligence-report-equation-

group%2F&text=Intelligence%20Report:%20Equation%20Group)

The group was named Equation due to the hackers' evident fondness for

the sophisticated methods used throughout their operations. The Equation

l//www.linkedienerypthereatgiolethm. Some of the most recent modules also use RC6, Rumini=true&url=https%3A%2F%2Fblog.checkpoint.com%2Fsecurity%2Fintelligence-report-equationagnes%2F)

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These tweets are from the Kaspersky 2015 Security Analyst Summit:

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url=https%3A%2F%2Fblog.checkpoint.com%2Fsecurity%2Fintelligence-

report-equation-gFoup#2可uationAPT group is probably one of the most sophisticated cyl



- The #EquationAPT group interacted with other powerful groups, such
- Two zero-day exploits were used by the Equation group before they we

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subject = Intelligence %20 Report: %20 Equation %20 Group &body = https %3A%2F%2Fblog.checkpointreport-equation-group %2F)

Equation Group Key Points

- "Fanny", which is one of the malwares used by Equation Group, was a
 to the internet such as nuclear power plants and electricity companie
 system, and then sending all information when it is plugged into a cor
- "Grok" is another malware used by the group, which is a key-logger the which are accessed through the infected computer.
- Some C&C servers used by the Equation group were registered as far
- The earliest known malware samples were compiled in 2002.

List of Relevant Signatures & Indicators

Check Point sees active infected hosts in Europe, US and the Persian Gul

The following IPS protections, Anti-Virus and post-infection Anti-Bot indi Group:

- 1. The IPS blade contains at least five different protections which will protection by the Equation Group:
 - 1. CVE-2010-2568: Microsoft Windows Shell LNK File Parsing Code E
 - 2. CVE-2012-0159: Microsoft Windows Malformed TrueType Font Ren
 - 3. CVE-2012-1723: BlackHole Toolkit v2 JAVA Payload Stage Code Exe
 - 4. CVE-2012-4681: Oracle Java 7 Applet RCE Gondvv
 - 5. CVE-2013-3918: Microsoft Windows InformationCardSigninHelper
- 2. The Anti-Virus blade will prevent the malware from infecting custome detect computers or networks already infected with the malware:
 - The blades include 113 indicators which were first published on Fe

Unique Methods of Hard-Disk Firmware Infection A unique feature researchers and engineers around the world with an unprecedented tech plugin in place that enables the functionality of reprogramming hard driv firmware upgrade feature of hard drives and solid state disks by various compartments, invisible to operating systems and typically left unnoticed

This specially crafted code enables persistence of the Equation tools (or wipe and clean operating system installation. The reprogrammed firmwa the computer as needed. The unique HDD firmware infection is the persistence of the Equation tools (or wipe and clean operating system installation. The reprogrammed firmware the computer as needed.

This capability requires a significant engineering effort, including specific model, testifying to the proportions of man-months and millions in USD i will see this implemented by common cybercriminals anytime soon, due software.

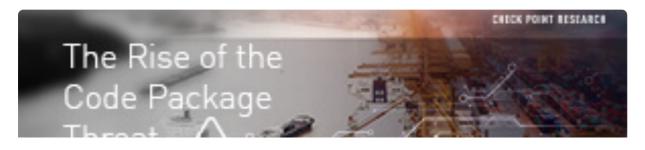
Synopsis The Equation group is a highly sophisticated organization that exploitation) operations dating back to 2001, and perhaps as early as 199 some of which surpass the well-known "Regin" (a sophisticated malware Equation group is probably one of the most sophisticated cyber-attack gractor.

References

Wikipedia: http://en.wikipedia.org/wiki/Equation_Group (http://en.wikipe

Securelist: http://securelist.com/files/2015/02/Equation_group_question (http://securelist.com/files/2015/02/Equation_group_questions_and_ans

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