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Security Vulnerability

Published: 05/08/2018

MITRE CVE-2018-8127 (https://cve.mitre.org/cgi-bin/cvename.cgi?name_eVte-2018-8127)

An information disclosure vulnerability exists when the Windows kernel improperly handles objects in memory. An attacker who successfully exploited this vulnerability could obtain information to further compromise the user's system.

To exploit this vulnerability, an attacker would have to log on to an affected system and run a specially crafted application. The vulnerability would not allow an attacker to execute code or to elevate user rights directly, but it could be used to obtain information that could be used to try to further compromise the affected system

The update addresses the vulnerability by correcting how the Windows kernel handles objects in memory.

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Revisions

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Exploitability Assessment

The following table provides an exploitability assessment (https://technet.microsoft.com/en-us/security/cc998259.aspx) for this vulnerability at the time of original publication.

Publicly Disclosed	Exploited	Latest Software Release	Older Software Release	Denial of Service
No	No	1 - Exploitation More Likely	1 - Exploitation More Likely	Not Applicable

Security Updates

CVSS Score

Security Updates

To determine the support life cycle for your software version or edition, see the Microsoft Support Lifecycle (https://support.microsoft.com/en-us/lifecycle).

Product ▲	Platform	Article	Download	Impact	Severity	Superse
Windows 10 for 32-bit Systems		4103716 (https://support.microsoft.com/help/4103716)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103716)	Information Disclosure	Important	4093111

16/2019		CVE-2018-8127 Windo	ws Kernel Information Disclosure vulnerability			
Product ▲	Platform	Article	Download	Impact	Severity	Superse
Windows 10 for x64- based Systems		4103716 (https://support.microsoft.com/help/4103716)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103716)	Information Disclosure	Important	4093111
Windows 10 Version 1607 for 32-bit Systems		4103723 (https://support.microsoft.com/help/4103723)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103723)	Information Disclosure	Important	4093119
Windows 10 Version 1607 for x64-based Systems		4103723 (https://support.microsoft.com/help/4103723)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103723)	Information Disclosure	Important	4093119
Windows 10 Version 1703 for 32-bit Systems		4103731 (https://support.microsoft.com/help/4103731)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103731)	Information Disclosure	Important	4093107
Windows 10 Version 1703 for x64-based Systems		4103731 (https://support.microsoft.com/help/4103731)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103731)	Information Disclosure	Important	4093107
Windows 10 Version 1709 for 32-bit Systems		4103727 (https://support.microsoft.com/help/4103727)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103727)	Information Disclosure	Important	4093112
Windows 10 Version 1803 for 32-bit Systems		4103721 (https://support.microsoft.com/help/4103721)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103721)	Information Disclosure	Important	
Windows 10 Version 1803 for x64-based Systems		4103721 (https://support.microsoft.com/help/4103721)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103721)	Information Disclosure	Important	
Windows 7 for 32-bit Systems Service Pack 1		4103718 (https://support.microsoft.com/help/4103718)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103718)	Information Disclosure	Important	4093118
		4103712 (https://support.microsoft.com/help/4103712)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103712)			
Windows 7 for x64- based Systems Service Pack 1		4103718 (https://support.microsoft.com/help/4103718)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103718)	Information Disclosure	Important	4093118
		4103712 (https://support.microsoft.com/help/4103712)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103712)			
Windows 8.1 for 32- bit systems		4103725 (https://support.microsoft.com/help/4103725)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103725)	Information Disclosure	Important	4093114
		4103715 (https://support.microsoft.com/help/4103715)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103715)			
Windows 8.1 for x64- based systems		4103725 (https://support.microsoft.com/help/4103725)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103725)	Information Disclosure	Important	4093114
		4103715 (https://support.microsoft.com/help/4103715)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103715)			
Windows RT 8.1		4103725 (https://support.microsoft.com/help/4103725)	Monthly Rollup	Information Disclosure	Important	4093114
Windows Server 2008 R2 for Itanium-Based Systems Service Pack		4103718 (https://support.microsoft.com/help/4103718)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103718)	Information Disclosure	Important	4093118
1		4103712 (https://support.microsoft.com/help/4103712)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103712)			
Windows Server 2008 R2 for x64-based		4103718 (https://support.microsoft.com/help/4103718)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103718)	Information Disclosure	Important	4093118
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Systems Service Pack Product A	Platform	Article	Download	Impact	Severity	Superse
		4103712 (https://support.microsoft.com/help/4103712)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103712)			
Windows Server 2008 R2 for x64-based Systems Service Pack	for x64-based tems Service Pack	4103718 (https://support.microsoft.com/help/4103718)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103718)	Information Disclosure	Important	4093118
1 (Server Core installation)		4103712 (https://support.microsoft.com/help/4103712)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103712)			
Windows Server 2012		4103730 (https://support.microsoft.com/help/4103730)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103730)	Information Disclosure	Important	4093125
		4103726 (https://support.microsoft.com/help/4103726)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103726)			
Windows Server 2012 (Server Core installation)		4103730 (https://support.microsoft.com/help/4103730)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103730)	Information Disclosure	Important	4093123
		4103726 (https://support.microsoft.com/help/4103726)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103726)			
Windows Server 2012 R2		4103725 (https://support.microsoft.com/help/4103725)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103725)	Information Disclosure	Important	4093114
		4103715 (https://support.microsoft.com/help/4103715)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103715)			
Windows Server 2012 R2 (Server Core installation)		4103725 (https://support.microsoft.com/help/4103725)	Monthly Rollup (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103725)	Information Disclosure Important	Important	4093114
		4103715 (https://support.microsoft.com/help/4103715)	Security Only (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103715)			
Windows Server 2016		4103723 (https://support.microsoft.com/help/4103723)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103723)	Information Disclosure	Important	4093119
Windows Server 2016 (Server Core installation)		4103723 (https://support.microsoft.com/help/4103723)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103723)	Information Disclosure	Important	4093119
Windows Server, version 1709 (Server Core Installation)		4103727 (https://support.microsoft.com/help/4103727)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103727)	Information Disclosure	Important	4093112
Windows Server, version 1803 (Server Core Installation)		4103721 (https://support.microsoft.com/help/4103721)	Security Update (https://catalog.update.microsoft.com/v7/site/Search.aspx? q=KB4103721)	Information Disclosure	Important	

Mitigations

Microsoft has not identified any mitigating factors (https://technet.microsoft.com/library/security/dn848375.aspx#Mitigation) for this vulnerability.

Workarounds

 $Microsoft \ has \ not \ identified \ any \ work arounds \ (https://technet.microsoft.com/library/security/dn848375.aspx\#Work around) \ for \ this \ vulnerability.$

Acknowledgements

Rohit Mothe of Project Minus Storm Team, Intel Corp. Andrei Vlad Lutas of Bitdefender (https://www.bitdefender.com)

 $See \ acknowledgements \ (https://portal.msrc.microsoft.com/en-us/security-guidance/acknowledgments) \ for \ more \ information.$

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Revisions

Version	Date	Description
1.0	05/08/2018	Information published.

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