CVE-2015-4178

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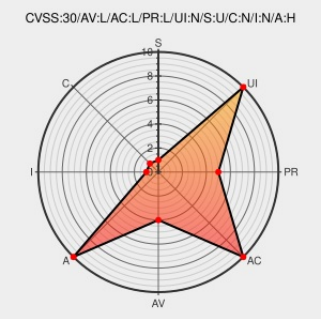
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Linux Kernel from Linux contain the following vulnerability:

The fs_pin implementation in the Linux kernel before 4.0.5 does not ensure the internal consistency of a certain list data structure, which allows local users to cause a denial of service (system crash) by leveraging user-namespace root access for an MNT_DETACH umount2 system call, related to fs/fs_pin.c and include/linux/fs_pin.h.

CVE-2015-4178 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 5.5 - MEDIUM

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: 4.9 - MEDIUM

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
NONE	NONE	COMPLETE

CVE References

Description	Tags	Link
kernel/git/torvalds/linux.git - Linux kernel source tree	git.kernel.org text/html	CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=820f9f147dcce2602eefd9b575bbbd9ea14f0953
Bug 1249849 – CVE-2015-4178	bugzilla.redhat.com	CONFIRM bugzilla.redhat.com/show_bug.cgi?id=1249849

kernel: list corruption of m_list or s_list if unused	text/html	
oss-security - Re: Re: CVE request Linux kernel: ns: user namespaces panic	www.openwall.com text/html	MLIST [oss-security] 20150604 Re: Re: CVE request Linux kernel: ns: user namespaces panic
	Vendor Advisory www.kernel.org text/plain	CONFIRM www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.0.5
fs_pin: Allow for the possibility that m_list or s_list go unused. · torvalds/linux@820f9f1 · GitHub	Patch Vendor Advisory github.com text/html	CONFIRM github.com/torvalds/linux/commit/820f9f147dcce2602eefd9b575bbbd9ea14f0953
oss-security - CVE request Linux kernel: ns: user namespaces panic	Patch openwall.com text/html	MLIST [oss-security] 20150529 CVE request Linux kernel: ns: user namespaces panic
oss-security - Re: CVE request Linux kernel: ns: user namespaces panic	openwall.com text/html	MLIST [oss-security] 20150529 Re: CVE request Linux kernel: ns: user namespaces panic

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	All	All	All	All

cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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