CVE-2015-8952

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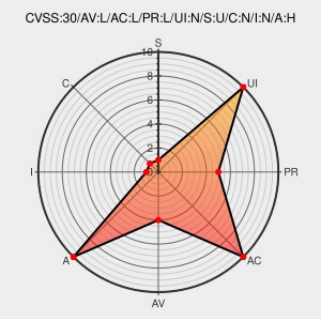
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



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

The mbcache feature in the ext2 and ext4 filesystem implementations in the Linux kernel before 4.6 mishandles xattr block caching, which allows local users to cause a denial of service (soft lockup) via filesystem operations in environments that use many attributes, as demonstrated by Ceph and Samba.

CVE-2015-8952 has been assigned by cve@mitre.org 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: 2.1 - LOW

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

CVE References

Description	Tags	Link
ext4: convert to mbcache2 · torvalds/linux@82939d7 · GitHub	Vendor Advisory, github.com, text/html	CONFIRM github.com/torvalds/linux/commit/82939d7999dfc1f1998c4b1c12e2f19edbdff272

oss-security - CVE request: Linux kernel mbcache lock contention denial of service.	Third Party Advisory www.openwall.com text/html	MLIST [oss-security] 20160822 CVE request: Linux kernel mbcache lock contention denial of service.
ext2: convert to mbcache2 · torvalds/linux@be0726d · GitHub	Issue Tracking Patch github.com text/html	CONFIRM github.com/torvalds/linux/commit/be0726d33cb8f411945884664924bed3cb8c70ee
USN-3582-2: Linux kernel (Xenial HWE) vulnerabilities | Ubuntu security notices	usn.ubuntu.com text/html	UBUNTU USN-3582-2
USN-3582-1: Linux kernel vulnerabilities | Ubuntu security notices	usn.ubuntu.com text/html	UBUNTU USN-3582-1
mbcache2: reimplement mbcache · torvalds/linux@f9a61eb · GitHub	Issue Tracking github.com text/html	CONFIRM github.com/torvalds/linux/commit/f9a61eb4e2471c56a63cd804c7474128138c38ac
kernel/git/torvalds/linux.git - Linux kernel source tree	Patch git.kernel.org text/html	CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=be0726d33cb8f411945884664924bed3cb8c70ee
kernel/git/torvalds/linux.git - Linux kernel source tree	Patch git.kernel.org text/html	CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=82939d7999dfc1f1998c4b1c12e2f19edbdff272
oss-security - Re: CVE request: Linux kernel mbcache lock contention denial of service.	Patch Third Party Advisory www.openwall.com text/html	MLIST [oss-security] 20160825 Re: CVE request: Linux kernel mbcache lock contention denial of service.
ext[24]: MBCache rewrite [LWN.net]	Third Party Advisory lwn.net text/html	CONFIRM lwn.net/Articles/668718/
Bug 1360968 – CVE-2015-8952 kernel: mbcache code subject to softlockup DOS in cache management	Issue Tracking Third Party Advisory VDB Entry bugzilla.redhat.com text/html	CONFIRM bugzilla.redhat.com/show_bug.cgi?id=1360968
kernel/git/torvalds/linux.git - Linux kernel source tree	Patch git.kernel.org text/html	CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=f9a61eb4e2471c56a63cd804c7474128138c38ac
107301 – system hang during ext4 xattr operation	Issue Tracking Third Party Advisory bugzilla.kernel.org text/html	CONFIRM bugzilla.kernel.org/show_bug.cgi?id=107301

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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