CVE-2009-2287

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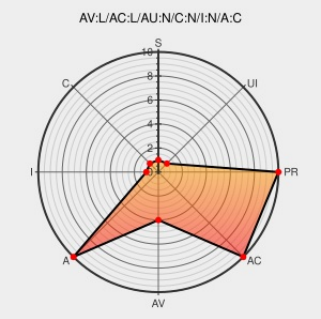
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Ubuntu Linux from Canonical contain the following vulnerability:

The kvm_arch_vcpu_ioctl_set_sregs function in the KVM in Linux kernel 2.6 before 2.6.30, when running on x86 systems, does not validate the page table root in a KVM_SET_SREGS call, which allows local users to cause a denial of service (crash or hang) via a crafted cr3 value, which triggers a NULL pointer dereference in the gfn_to_rmap function.

CVE-2009-2287 has been assigned by cve@mitre.org to track the vulnerability

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
SourceForge.net: kernel virtual machine: Detail: 2687641 - EXPLOITABLE failure to validate cr3 after KVM_SET_SREGS	Third Party Advisory, sourceforge.net, text/html	CONFIRM sourceforge.net/tracker/?func=detail&atid=893831&aid=2687641&g
USN-807-1: Linux kernel vulnerabilities | Ubuntu	Third Party Advisory, www.ubuntu.com, text/html	UBUNTU USN-807-1
kernel/git/torvalds/linux.git - Linux kernel source tree	Mailing List, Patch, Vendor Advisory, git.kernel.org, text/html	CONFIRM git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commitdiff;h=59839dfff5eabca01cc4e20b45797a60a80af8cb

Support / Security / Advisories / / MDVSA-2010:198 | Mandriva	Broken Link www.mandriva.com text/html	MANDRIVA MDVSA-2010:198
Ubuntu update for kernel - Secunia Advisories - Vulnerability Information - Secunia.com	Broken Link web.archive.org text/html	SECUNIA 36045
KVM "kvm_arch_vcpu_ioctl_set_sregs()" Denial of Service - Secunia Advisories - Vulnerability Information - Secunia.com	Broken Link web.archive.org text/html	SECUNIA 35675
Debian -- Security Information -- DSA-1845-1 linux-2.6	Third Party Advisory www.debian.org Depreciated Link text/html	DEBIAN DSA-1845
oss-security - CVE Request: kernel: kvm: failure to validate cr3 after KVM_SET_SREGS	Mailing List Patch Third Party Advisory www.openwall.com text/html	MLIST [oss-security] 20090630 CVE Request: kernel: kvm: failure to validate c
Debian update for linux-2.6 - Secunia Advisories - Vulnerability Information - Secunia.com	Broken Link web.archive.org text/html	SECUNIA 36054
kvm-x86-check-for-cr3-validity-in-ioctl_set_sregs.patch « queue-2.6.30 - kernel/git/stable/stable-queue.git - Linux kernel stable patch queue	Mailing List Patch Vendor Advisory git.kernel.org text/html	CONFIRM git.kernel.org/?p=linux/kernel/git/stable/stable-queue.git;a=blob;f=qu in-ioctl_set_sregs.patch;h=b48a47dad2cf76358b327368f80c0805e6370c68;hb=e7c4

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	6.06	All	All	All
Operating System	Canonical	Ubuntu Linux	8.04	All	All	All
Operating System	Canonical	Ubuntu Linux	8.10	All	All	All
Operating System	Canonical	Ubuntu Linux	9.04	All	All	All
Operating System	Canonical	Ubuntu Linux	6.06	All	All	All
Operating	Canonical	Ubuntu Linux	8.04	All	All	All

Operating System	Canonical	Ubuntu Linux	8.10	All	All	All
Operating System	Canonical	Ubuntu Linux	9.04	All	All	All
Operating System	Debian	Debian Linux	4.0	All	All	All
Operating System	Debian	Debian Linux	5.0	All	All	All
Operating System	Debian	Debian Linux	4.0	All	All	All
Operating System	Debian	Debian Linux	5.0	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All

- cpe:2.3:o:canonical:ubuntu_linux:6.06:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:8.04:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:8.10:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:9.04:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:6.06:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:8.04:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:8.10:*:*:*:*:*:*:*:
- cpe:2.3:o:canonical:ubuntu_linux:9.04:*:*:*:*:*:*:*:
- cpe:2.3:o:debian:debian_linux:4.0:*:*:*:*:*:*:*:
- cpe:2.3:o:debian:debian_linux:5.0:*:*:*:*:*:*:*:
- cpe:2.3:o:debian:debian_linux:4.0:*:*:*:*:*:*:*:
- cpe:2.3:o:debian:debian_linux:5.0:*:*:*:*:*:*:*:
- cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:
- cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:

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