CVE-2016-5412

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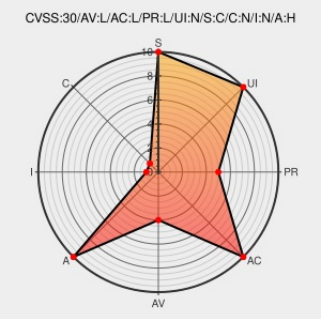
CVE-2016-5412

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



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

arch/powerpc/kvm/book3s_hv_rmhandlers.S in the Linux kernel through 4.7 on PowerPC platforms, when CONFIG_KVM_BOOK3S_64_HV is enabled, allows guest OS users to cause a denial of service (host OS infinite loop) by making a H_CEDE hypercall during the existence of a suspended transaction.

CVE-2016-5412 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 6.5 - MEDIUM

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

CVSS2 Score: 4.6 - MEDIUM

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

CVE References

Description	Tags	Link
Red Hat Customer Portal	access.redhat.com text/html	MISC access.redhat.com/errata/RHSA-2016:2574
oss-security - CVE-2016-	Mailing List	MLIST [oss-security] 20160728 CVE-2016-5412 Kernel: powerpc: kvm: Infinite

5412 Kernel: powerpc: kvm: Infinite loop via H_CEDE hypercall when running under hypervisor-mode	Mailing List www.openwall.com text/html	MLIST [oss-security] 20160728 CVE-2016-5412 Kernel: powerpc: kvm: Infinite loop via H_CEDE hypercall when running under hypervisor-mode
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=93d17397e4e2182fdaad503e2f9da46202c0f1c3
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=f024ee098476a3e620232e4a78cfac505f121245
Red Hat Customer Portal	web.archive.org text/html Inactive Link Not Archived	REDHAT RHSA-2016:2574
Bug 1349916 – CVE-2016-5412 Kernel: powerpc: kvm: Infinite loop via H_CEDE hypercall when running under hypervisor-mode	Issue Tracking Patch Third Party Advisory bugzilla.redhat.com text/html	CONFIRM bugzilla.redhat.com/show_bug.cgi?id=1349916
KVM: PPC: Book3S HV: Pull out TM state save/restore into separate pro… · torvalds/linux@f024ee0 · GitHub	github.com text/html	CONFIRM github.com/torvalds/linux/commit/f024ee098476a3e620232e4a78cfac505f121245
CVE-2016-5412 - Red Hat Customer Portal	access.redhat.com text/html	MISC access.redhat.com/security/cve/CVE-2016-5412
KVM: PPC: Book3S HV: Save/restore TM state in H_CEDE · torvalds/linux@93d1739 · GitHub	github.com text/html	CONFIRM github.com/torvalds/linux/commit/93d17397e4e2182fdaad503e2f9da46202c0f1c3

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

← Previous ID

Next ID→

CVE.report and Source URL Uptime Status status.cve.report