CVE-2015-7513

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2015-7513
State	PUBLISHED
Assigner	redhat
Source Priority	CVE Program / NVD first with legacy fallback
Published	2016-02-08 03:59:01 UTC
Updated	2026-05-06 22:30:45 UTC
Description	arch/x86/kvm/x86.c in the Linux kernel before 4.4 does not reset the PIT counter values during state restoration, which allov

Risk And Classification

Primary CVSS: v3.1 6.5 MEDIUM from nvd@nist.gov

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:N/I:N/A:H

Problem Types: CWE-369 | n/a

Version	Source	Type	Score	Severity	Vector
3.1	nvd@nist.gov	Primary	6.5	MEDIUM	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:N/I:N/A:H
2.0	nvd@nist.gov	Primary	4.9		AV:L/AC:L/Au:N/C:N/I:N/A:C

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Changed

Confidentiality

None

Integrity

None

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:N/I:N/A:H

CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Low

Authentication

None

Confidentiality

None

Integrity

None

Availability

Complete

AV:L/AC:L/Au:N/C:N/I:N/A:C

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	12.04	All	All	All
Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.10	All	All	All
Operating System	Debian	Debian Linux	7.0	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Operating System	Fedoraproject	Fedora	22	All	All	All
Operating System	Fedoraproject	Fedora	23	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Linux	Linux Kernel	4.4	-	All	All
Operating System	Linux	Linux Kernel	4.4	rc1	All	All
Operating System	Linux	Linux Kernel	4.4	rc2	All	All
Operating System	Linux	Linux Kernel	4.4	rc3	All	All
Operating System	Linux	Linux Kernel	4.4	rc4	All	All
Operating System	Linux	Linux Kernel	4.4	rc5	All	All
Operating System	Linux	Linux Kernel	4.4	rc6	All	All

Vendor Declared Affected Products

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	N/a	affected n/a	Not specified

References

Reference
Linux Kernel KVM 'kvm_pit_load_count()' Function Divide By Zero Denial of Service Vulnerability
oss-security - CVE-2015-7513 Kernel: kvm: divide by zero issue leads to DoS
USN-2890-3: Linux kernel (Raspberry Pi 2) vulnerabilities | Ubuntu
USN-2888-1: Linux kernel (Utopic HWE) vulnerabilities | Ubuntu
KVM PIT Divide By Zero Error Lets Local Users on a Guest System Cause Denial of Service Conditions on the Host System - SecurityTracker
KVM: x86: Reload pit counters for all channels when restoring state · torvalds/linux@0185604 · GitHub
kernel/git/torvalds/linux.git - Linux kernel source tree
USN-2886-1: Linux kernel vulnerabilities | Ubuntu
[SECURITY] Fedora 23 Update: kernel-4.3.3-303.fc23
Bug 1284847 – CVE-2015-7513 Kernel: kvm: divide by zero issue leads to DoS
USN-2890-2: Linux kernel (Wily HWE) vulnerabilities | Ubuntu
USN-2889-2: Linux kernel (Vivid HWE) vulnerabilities | Ubuntu
[SECURITY] Fedora 22 Update: kernel-4.3.4-200.fc22
USN-2887-1: Linux kernel vulnerabilities | Ubuntu
Debian -- Security Information -- DSA-3434-1 linux
USN-2890-1: Linux kernel vulnerabilities | Ubuntu
[SECURITY] Fedora 23 Update: kernel-4.3.3-301.fc23
USN-2889-1: Linux kernel vulnerabilities | Ubuntu
USN-2887-2: Linux kernel (Trusty HWE) vulnerabilities | Ubuntu
CVE Program record
NVD vulnerability detail

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

Free CVE JSON API cve.report/api

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