



CVE-2016-9777

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

Summary

CVE	CVE-2016-9777
State	PUBLISHED
Assigner	redhat
Source Priority	CVE Program / NVD first with legacy fallback
Published	2016-12-28 07:59:00 UTC
Updated	2026-05-06 22:30:45 UTC
Description	KVM in the Linux kernel before 4.8.12, when I/O APIC is enabled, does not properly restrict the VCPU index, which allows g

Risk And Classification

Primary CVSS: v3.1 7.8 HIGH from nvd@nist.gov

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

EPSS: 0.000670000 probability, percentile 0.204780000 (date 2026-05-08)

Problem Types: CWE-125 | n/a

Version	Source	Type	Score	Severity	Vector
3.1	nvd@nist.gov	Primary	7.8	HIGH	CVSS:3.1/AV:L/AC:H/PR:L/UI:N/S:C/C:H/I:H/A:H
2.0	nvd@nist.gov	Primary	6.9		AV:L/AC:M/Au:N/C:C/I:C/A:C

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

High

Privileges Required

Low

User Interaction

None

Scope

Changed

Confidentiality

High

Integrity

High

High

Availability

High

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

CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Medium

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

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

NVD Known Affected Configurations (CPE 2.3)

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

Vendor Declared Affected Products

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

References

Reference	Source	Link
Linux Kernel 'lapic.c' Local Denial of Service Vulnerability	af854a3a-2127-422b-91ae-364da2661108	www.
kernel/git/torvalds/linux.git - Linux kernel source tree	af854a3a-2127-422b-91ae-364da2661108	git.ke
www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.8.12	af854a3a-2127-422b-91ae-364da2661108	www.
oss-security - CVE request: Kernel: kvm: out of bounds memory access via vcpu_id	af854a3a-2127-422b-91ae-364da2661108	www.
Bug 1400804 – CVE-2016-9777 Kernel: kvm: out of bounds memory access via vcpu_id	af854a3a-2127-422b-91ae-364da2661108	bugzi
KVM: x86: fix out-of-bounds accesses of rtc_eoi map · torvalds/linux@81cdb25 · GitHub	af854a3a-2127-422b-91ae-364da2661108	github
CVE Program record	CVE.ORG	www.
NVD vulnerability detail	NVD	nvd.n

No vendor comments have been submitted for this CVE.

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

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