CVE-2016-4020

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CVE-2016-4020

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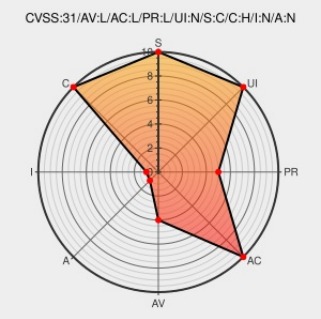

Certain versions of Ubuntu Linux from Canonical contain the following vulnerability:

The patch_instruction function in hw/i386/kvmvapic.c in QEMU does not initialize the imm32 variable, which allows local guest OS administrators to obtain sensitive information from host stack memory by accessing the Task Priority Register (TPR).

CVE-2016-4020 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	HIGH	NONE	NONE

CVSS2 Score: 2.1 - LOW

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

CVE References

Description	Tags	Link
Bug 1313686 – CVE-2016-4020 Qemu: i386: leakage of stack memory to guest in kvmvapic.c	Issue Tracking Third Party Advisory bugzilla.redhat.com text/html	CONFIRM bugzilla.redhat.com/show_bug.cgi?id=1313686

[SECURITY] [DLA 1599-1] qemu security update	Mailing List Third Party Advisory lists.debian.org text/html	MLIST [debian-lts-announce] 20181130 [SECURITY] [DLA 1599-1] qemu security update
[Qemu-devel] [PATCH] i386: kvmvapic: initialise imm32 variable	Patch Third Party Advisory lists.gnu.org text/x-diff	MLIST [qemu-devel] 20160407 [Qemu-devel] [PATCH] i386: kvmvapic: initialise imm32 variable
Red Hat Customer Portal	Third Party Advisory access.redhat.com text/html	REDHAT RHSA-2017:2408
CVE-2016-4020 - Red Hat Customer Portal	access.redhat.com text/html	MISC access.redhat.com/security/cve/CVE-2016-4020
QEMU CVE-2016-4020 Information Disclosure Vulnerability	Third Party Advisory VDB Entry cve.report (archive) text/html	BID 86067
git.qemu.org Git - qemu.git/commit	Patch Vendor Advisory web.archive.org text/xml Inactive Link Not Archived	MISC git.qemu.org/?p=qemu.git%3Ba=commit%3Bh=691a02e2ce0c413236a78dee6f2651c937b09fb0
Red Hat Customer Portal	Third Party Advisory access.redhat.com text/html	REDHAT RHSA-2017:2392
Red Hat Customer Portal	Third Party Advisory access.redhat.com text/html	REDHAT RHSA-2017:1856
USN-2974-1: QEMU vulnerabilities | Ubuntu	Third Party Advisory www.ubuntu.com text/html	UBUNTU USN-2974-1
Re: [Qemu-devel] [PATCH] i386: kvmvapic: initialise imm32 variable	Patch Third Party Advisory lists.gnu.org text/html	MLIST [qemu-devel] 20160407 Re: [Qemu-devel] [PATCH] i386: kvmvapic: initialise imm32 variable
QEMU: Multiple vulnerabilities (GLSA 201609-01) — Gentoo security	Third Party Advisory security.gentoo.org text/html	GENTOO GLSA-201609-01

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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	12.04	All	All	All

Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.10	All	All	All
Operating System	Canonical	Ubuntu Linux	16.04	All	All	All
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	15.10	All	All	All
Operating System	Canonical	Ubuntu Linux	16.04	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Application	Qemu	Qemu	All	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.4	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.5	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.4	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.5	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Eus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Server	7.0	All	All	All
Operating	Redhat	Enterprise Linux Server	7.0	All	All	All

System						
Operating System	Redhat	Enterprise Linux Server Aus	7.4	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.4	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Server Tus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Server Tus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Server Tus	7.6	All	All	All
Operating System	Redhat	Enterprise Linux Server Tus	7.7	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	7.0	All	All	All
Application	Redhat	Openstack	10	All	All	All
Application	Redhat	Openstack	11	All	All	All
Application	Redhat	Openstack	11.0	All	All	All
Application	Redhat	Openstack	6.0	All	All	All
Application	Redhat	Openstack	7.0	All	All	All
Application	Redhat	Openstack	8	All	All	All
Application	Redhat	Openstack	8.0	All	All	All
Application	Redhat	Openstack	9	All	All	All
Application	Redhat	Openstack	9.0	All	All	All
Application	Redhat	Openstack	10	All	All	All
Application	Redhat	Openstack	11.0	All	All	All
Application	Redhat	Openstack	6.0	All	All	All
Application	Redhat	Openstack	7.0	All	All	All
Application	Redhat	Openstack	8.0	All	All	All
Application	Redhat	Openstack	9.0	All	All	All
Application	Redhat	Virtualization	4.0	All	All	All

Application	Redhat	Virtualization	4.0	All	All	All

cpe:2.3:o:canonical:ubuntu_linux:12.04:*:*:*:esm:*:*:*:

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cpe:2.3:a:qemu:qemu:*:*:*:*:*:*:*:*:

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cpe:2.3:a:redhat:openstack:11:*:*:*:*:*:*:*:

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cpe:2.3:a:redhat:openstack:11.0:*:*:*:*:*:*:*:

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cpe:2.3:a:redhat:openstack:7.0:*:*:*:*:*:*:*:

cpe:2.3:a:redhat:openstack:8.0:*:*:*:*:*:*:*:

cpe:2.3:a:redhat:openstack:9.0:*:*:*:*:*:*:*:

cpe:2.3:a:redhat:virtualization:4.0:*:*:*:*:*:*:*:

cpe:2.3:a:redhat:virtualization:4.0:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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