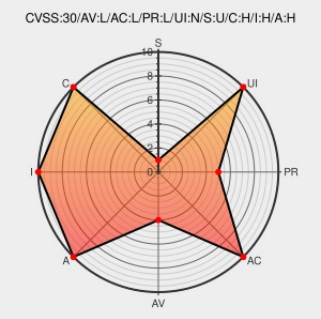
CVE-2018-10853

Published on: 09/11/2018 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:24:20 PM UTC

CVE-2018-10853

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



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

A flaw was found in the way Linux kernel KVM hypervisor before 4.18 emulated instructions such as sgdt/sidt/fxsave/fxrstor. It did not check current privilege(CPL) level while emulating unprivileged instructions. An unprivileged guest user/process could use this flaw to potentially escalate privileges inside guest.

CVE-2018-10853 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Linux** - **kernel** version **4.18**

CVSS3 Score: 7.8 - HIGH

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

CVSS2 Score: 4.6 - MEDIUM

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

CVE References

Description	Tags	Link
[security-announce] openSUSE-SU-2019:1407-1:	lists.opensuse.org	SUSE openSUSE-SU-2019:1407

important: Security update	text/html	
Red Hat Customer Portal	access.redhat.com text/html	REDHAT RHSA-2019:2029
kernel/git/torvalds/linux.git - Linux kernel source tree	Patch Vendor Advisory git.kernel.org text/html	CONFIRM git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/commit/?id=3c9fa24ca7c9c476056729164 91f79e8ccacb9e6
[SECURITY] [DLA 1422-1] linux security update	Mailing List Third Party Advisory lists.debian.org text/html	MLIST [debian-lts-announce] 20180714 [SECURITY] [DLA 1422-1] linux security update
Red Hat Customer Portal	access.redhat.com text/html	REDHAT RHSA-2019:2043
[SECURITY] [DLA 1423-1] linux-4.9 new package	Mailing List Third Party Advisory lists.debian.org text/html	MLIST [debian-lts-announce] 20180718 [SECURITY] [DLA 1423-1] linux-4.9 new package
[SECURITY] [DLA 1422-2] linux security update	Mailing List Third Party Advisory lists.debian.org text/html	MLIST [debian-lts-announce] 20180715 [SECURITY] [DLA 1422-2] linux security update
1589890 – (CVE-2018-10853) CVE-2018-10853 kernel: kvm: guest userspace to guest kernel write	Issue Tracking Patch Third Party Advisory bugzilla.redhat.com text/html	CONFIRM bugzilla.redhat.com/show_bug.cgi?id=CVE-2018-10853
USN-3777-2: Linux kernel (HWE) vulnerabilities | Ubuntu security notices	Third Party Advisory usn.ubuntu.com text/html	UBUNTU USN-3777-2
USN-3777-1: Linux kernel vulnerabilities | Ubuntu security notices	Third Party Advisory usn.ubuntu.com text/html	UBUNTU USN-3777-1
Red Hat Customer Portal	access.redhat.com text/html	REDHAT RHSA-2020:0179
kernel/git/torvalds/linux.git - Linux kernel source tree	Patch Vendor Advisory git.kernel.org text/html	CONFIRM git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/commit/?id=129a72a0d3c8e139a04512325384fe5ac119e74
oss-security - CVE-2018-10853 kernel: kvm: guest userspace to guest kernel write	Mailing List Patch Third Party Advisory www.openwall.com text/html	MISC www.openwall.com/lists/oss-security/2018/09/02/1
Red Hat Customer Portal	access.redhat.com text/html	REDHAT RHSA-2020:0036
Red Hat Customer Portal	access.redhat.com text/html	REDHAT RHSA-2020:0103

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	16.04	All	All	All
Operating System	Canonical	Ubuntu Linux	18.04	All	All	All
Operating System	Canonical	Ubuntu Linux	16.04	All	All	All
Operating System	Canonical	Ubuntu Linux	18.04	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Operating System	Debian	Debian Linux	8.0	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:16.04:*:*:*:lts:*:*:*:

cpe:2.3:o:canonical:ubuntu_linux:18.04:*:*:*:lts:*:*:*:

cpe:2.3:o:canonical:ubuntu_linux:16.04:*:*:*:lts:*:*:*:

cpe:2.3:o:canonical:ubuntu_linux:18.04:*:*:*:lts:*:*:*:

cpe:2.3:o:debian:debian_linux:8.0:*:*:*:*:*:*:*:

cpe:2.3:o:debian:debian_linux:8.0:*:*:*:*:*:*:*:

cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:

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