CVE-2019-19581

Published on: 12/11/2019 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:27:54 PM UTC

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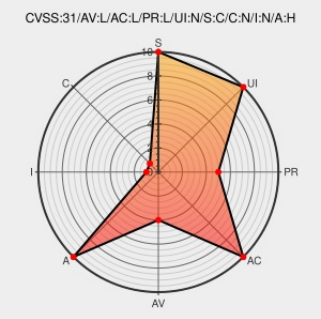
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Fedora from Fedoraproject contain the following vulnerability:

An issue was discovered in Xen through 4.12.x allowing 32-bit Arm guest OS users to cause a denial of service (out-of-bounds access) because certain bit iteration is mishandled. In a number of places bitmaps are being used by the hypervisor to track certain state. Iteration over all bits involves functions which may misbehave in certain corner cases: On 32-bit Arm accesses to bitmaps with bit a count which is a multiple of 32, an out of bounds access may occur. A malicious guest may cause a hypervisor crash or hang, resulting in a Denial of Service (DoS). All versions of Xen are vulnerable. 32-bit Arm systems are vulnerable. 64-bit Arm systems are not vulnerable.

CVE-2019-19581 has been assigned by cve@mitre.org 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: 2.1 - LOW

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

CVE References

Description	Tags	Link
Debian -- Security Information -- DSA-4602-1 xen	www.debian.org Depreciated Link text/html	DEBIAN DSA-4602
Xen: Multiple vulnerabilities (GLSA 202003-56) — Gentoo security	security.gentoo.org text/html	GENTOO GLSA-202003-56
[SECURITY] Fedora 31 Update: xen-4.12.1-8.fc31 - package-announce - Fedora Mailing-Lists	Third Party Advisory lists.fedoraproject.org text/html	FEDORA FEDORA-2019-6aad703290
[SECURITY] Fedora 30 Update: xen-4.11.3-2.fc30 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	FEDORA FEDORA-2019-2e12bd3a9a
XSA-307 - Xen Security Advisories	Patch Vendor Advisory xenbits.xen.org text/html	MISC xenbits.xen.org/xsa/advisory-307.html
[security-announce] openSUSE-SU-2020:0011-1: important: Security update	lists.opensuse.org text/html	SUSE openSUSE-SU-2020:0011
Bugtraq: [SECURITY] [DSA 4602-1] xen security update	seclists.org text/html	BUGTRAQ 20200114 [SECURITY] [DSA 4602-1] xen security update

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Fedoraproject	Fedora	31	All	All	All
Operating System	Fedoraproject	Fedora	31	All	All	All
Operating System	Xen	Xen	All	All	All	All

cpe:2.3:o:fedoraproject:fedora:31:*:*:*:*:*:*:*:

cpe:2.3:o:fedoraproject:fedora:31:*:*:*:*:*:*:*:

cpe:2.3:o:xen:xen:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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Next ID→

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