CVE-2019-15793

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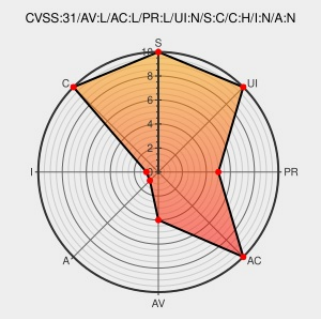
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



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

In shiftfs, a non-upstream patch to the Linux kernel included in the Ubuntu 5.0 and 5.3 kernel series, several locations which shift ids translate user/group ids before performing operations in the lower filesystem were translating them into init_user_ns, whereas they should have been translated into the s_user_ns for the lower filesystem. This resulted in using ids other than the intended ones in the lower fs, which likely did not map into the shifts s_user_ns. A local attacker could use this to possibly bypass discretionary access control permissions.

CVE-2019-15793 has been assigned by security@ubuntu.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Ubuntu** - **Shiftfs in the Linux kernel** version **>= 5.3.0-11.12**

Affected Vendor/Software: **Ubuntu** - **Shiftfs in the Linux kernel** version **< 5.3.0-22.24**

Affected Vendor/Software: **Ubuntu** - **Shiftfs in the Linux kernel** version **< 5.0.0-35.38**

CVSS3 Score: 8.8 - HIGH

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

CVSS2 Score: 4.6 - MEDIUM

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

Impact	Impact	Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
USN-4184-1: Linux kernel vulnerabilities | Ubuntu security notices	Third Party Advisory usn.ubuntu.com text/html	MISC usn.ubuntu.com/usn/usn-4184-1
USN-4183-1: Linux kernel vulnerabilities | Ubuntu security notices	Third Party Advisory usn.ubuntu.com text/html	MISC usn.ubuntu.com/usn/usn-4183-1
~ubuntu-kernel/ubuntu/+source/linux/+git/eoan - [no description]	Mailing List Patch Third Party Advisory git.launchpad.net text/html	MISC git.launchpad.net/~ubuntu-kernel/ubuntu/+source/linux/+git/eoan/commit/?id=3644b9d5688da86f18e017c9c580b75cf52927bb

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	18.04	All	All	All
Operating System	Canonical	Ubuntu Linux	19.04	All	All	All
Operating System	Canonical	Ubuntu Linux	18.04	All	All	All
Operating System	Canonical	Ubuntu Linux	19.04	All	All	All
Operating System	Linux	Linux Kernel	5.0	All	All	All
Operating System	Linux	Linux Kernel	5.3	All	All	All
Operating System	Linux	Linux Kernel	5.0	All	All	All
Operating System	Linux	Linux Kernel	5.3	All	All	All

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cpe:2.3:o:linux:linux_kernel:5.0:*:*:*:*:*:*:*:

cpe:2.3:o:linux:linux_kernel:5.3:*:*:*:*:*:*:*:

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