CVE-2019-15792

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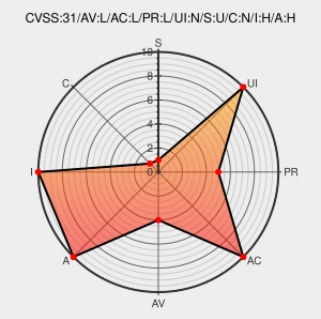

Certain versions of Ubuntu Linux from Canonical contain the following vulnerability:

In shiftfs, a non-upstream patch to the Linux kernel included in the Ubuntu 5.0 and 5.3 kernel series, shiftfs_btrfs_ioctl_fd_replace() calls fdget(oldfd), then without further checks passes the resulting file* into shiftfs_real_fdget(), which casts file->private_data, a void* that points to a filesystem-dependent type, to a "struct shiftfs_file_info *". As the private_data is not required to be a pointer, an attacker can use this to cause a denial of service or possibly execute arbitrary code.

CVE-2019-15792 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: 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
USN-4184-1: Linux kernel vulnerabilities | Ubuntu security notices	Vendor Advisory usn.ubuntu.com text/html	MISC usn.ubuntu.com/usn/usn-4184-1
USN-4183-1: Linux kernel vulnerabilities | Ubuntu security notices	Vendor 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=5df147c8140efc71ac0879ae3b0057f577226d4c

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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	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

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

cpe:2.3:o:canonical:ubuntu_linux:19.04:*:*:*:*:*:*:*

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

cpe:2.3:o:canonical:ubuntu_linux:19.04:*:*:*:*:*:*:*

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

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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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