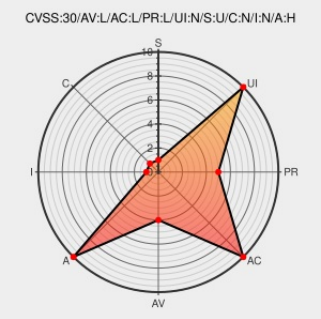
# CVE-2015-4177

Published on: 05/02/2016 12:00:00 AM UTC

Last Modified on: 02/12/2023 11:12:03 PM UTC

## CVE-2015-4177

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




Certain versions of Linux Kernel from Linux contain the following vulnerability:

The collect_mounts function in fs/namespace.c in the Linux kernel before 4.0.5 does not properly consider that it may execute after a path has been unmounted, which allows local users to cause a denial of service (system crash) by leveraging user-namespace root access for an MNT_DETACH umount2 system call.

CVE-2015-4177 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as MEDIUM severity.

### CVSS3 Score: 5.5 - MEDIUM

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

### CVSS2 Score: 4.9 - MEDIUM

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

### CVE References

| Description | Tags | Link |
|---|---|---|
| Bug 1248486 – CVE-2015-4177 kernel: Race conditions in collect_mounts | bugzilla.redhat.com text/html | CONFIRM bugzilla.redhat.com/show_bug.cgi?id=1248486 |

| | | |
|---|---|---|
| mnt: Fail collect_mounts when applied to unmounted mounts · torvalds/linux@cd4a401 · GitHub | Vendor Advisory<br>github.com<br>text/html | CONFIRM github.com/torvalds/linux/commit/cd4a40174b71acd021877341684d8bb1dc8ea4ae |
| oss-security - Re: Re: CVE request Linux kernel: ns: user namespaces panic | www.openwall.com<br>text/html | MLIST [oss-security] 20150604 Re: Re: CVE request Linux kernel: ns: user namespaces panic |
| | www.kernel.org<br>text/plain | CONFIRM www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.0.5 |
| oss-security - CVE request Linux kernel: ns: user namespaces panic | openwall.com<br>text/html | MLIST [oss-security] 20150529 CVE request Linux kernel: ns: user namespaces panic |
| kernel/git/torvalds/linux.git - Linux kernel source tree | Vendor Advisory<br>git.kernel.org<br>text/html | CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=cd4a40174b71acd021877341684d8bb1dc8ea4ae |
| oss-security - Re: CVE request Linux kernel: ns: user namespaces panic | openwall.com<br>text/html | MLIST [oss-security] 20150529 Re: CVE request Linux kernel: ns: user namespaces panic |



There are currently no QIDs associated with this CVE

## Known Affected Configurations (CPE V2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|---|---|---|---|---|---|---|
| Operating System | Linux | Linux Kernel | All | All | All | All |

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

No vendor comments have been submitted for this CVE

← Previous ID

Next ID→