



# CVE-2023-4015

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

|                        |   |
|------------------------|---|
| <b>CVE</b>             | CVE-2023-4015   |
| <b>State</b>           | PUBLIC  |
| <b>Assigner</b>        | security@google.com   |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback  |
| <b>Published</b>       | 2023-09-06 14:15:00 UTC   |
| <b>Updated</b>         | 2023-09-11 17:59:00 UTC   |
| <b>Description</b>     | A use-after-free vulnerability in the Linux kernel's netfilter: nf_tables component can be exploited to achieve local privilege e |

## Risk And Classification

**Problem Types:** CWE-416

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                 | Product                      | Version | Update | Edition | Language |
|------------------|------------------------|------------------------------|---------|--------|---------|----------|
| Operating System | <a href="#">Debian</a> | <a href="#">Debian Linux</a> | 12.0    | All    | All     | All      |
| Operating System | <a href="#">Linux</a>  | <a href="#">Linux Kernel</a> | All     | All    | All     | All      |

## References

| Reference  | Source  | Link  | Tags                |
|--|---------|---|---------------------|
| kernel/git/torvalds/linux.git - Linux kernel source tree | MISC    | <a href="https://git.kernel.org">git.kernel.org</a> |                     |
| Debian -- Security Information -- DSA-5492-1 linux       | MISC    | <a href="https://www.debian.org">www.debian.org</a> |                     |
| kernel.dance/0a771f7b266b02d262900c75f1e175c7fe76fec2    | MISC    | <a href="https://kernel.dance">kernel.dance</a>     |                     |
| CVE Program record                                       | CVE.ORG | <a href="https://www.cve.org">www.cve.org</a>       | canonical           |
| NVD vulnerability detail                                 | NVD     | <a href="https://nvd.nist.gov">nvd.nist.gov</a>     | canonical, analysis |

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

[161318](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2024-12094)

[161404](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2024-0461)

[199764](#) Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-6385-1)

|   |
|---|
| <a href="#">242839</a> Red Hat Update for kernel (RHSA-2024:0461)                                   |
| <a href="#">242845</a> Red Hat Update for kernel (RHSA-2024:0448)                                   |
| <a href="#">242846</a> Red Hat Update for kernel-rt (RHSA-2024:0439)                                |
| <a href="#">379043</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0136)  |
| <a href="#">6000220</a> Debian Security Update for linux (DSA 5492-1)                               |
| <a href="#">6140195</a> AWS Bottlerocket Security Update for kernel (GHSA-qqv4-v68x-7c6j)           |
| <a href="#">673595</a> EulerOS Security Update for kernel (EulerOS-SA-2023-3247)                    |
| <a href="#">673692</a> EulerOS Security Update for kernel (EulerOS-SA-2023-3275)                    |
| <a href="#">907278</a> Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (28675-1) |

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