



# CVE-2023-4147

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

## Summary

<b>CVE</b>	CVE-2023-4147
<b>State</b>	PUBLIC
<b>Assigner</b>	secalert@redhat.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2023-08-07 14:15:00 UTC
<b>Updated</b>	2023-11-07 04:22:00 UTC
<b>Description</b>	A use-after-free flaw was found in the Linux kernel's Netfilter functionality when adding a rule with NFTA_RULE_CHAIN_ID

## 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>	10.0	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	11.0	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	12.0	All	All	All
Operating System	<a href="#">Fedoraproject</a>	<a href="#">Fedora</a>	38	All	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	All	All	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	6.5	rc1	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	6.5	rc2	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	6.5	rc3	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux</a>	9.0	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux Eus</a>	9.2	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux For Real Time</a>	9.0	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux For Real Time For Nfv</a>	9.0	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux Server Aus</a>	9.2	All	All	All

## References

### Reference

2225239 – (CVE-2023-4147) CVE-2023-4147 kernel: netfilter: nf\_tables\_newrule when adding a rule with NFTA\_RULE\_CHAIN\_ID leads to u:

[SECURITY] [DLA 3623-1] linux-5.10 security update

Debian -- Security Information -- DSA-5480-1 linux

kernel/git/torvalds/linux.git - Linux kernel source tree

cve-details

[PATCH 6.4 090/239] netfilter: nf\_tables: disallow rule addition to bound chain via NFTA\_RULE\_CHAIN\_ID — Linux Stable Kernel Updates

Debian -- Security Information -- DSA-5492-1 linux

Red Hat

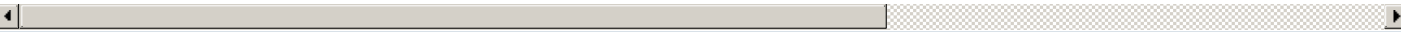
CVE-2023-4147 Linux Kernel Vulnerability in NetApp Products | NetApp Product Security

Red Hat

Red Hat

CVE Program record

NVD vulnerability detail



No vendor comments have been submitted for this CVE.

### Legacy QID Mappings

[160912](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-5069)

[242481](#) Red Hat Update for kernel (RHSA-2023:7382)

[242483](#) Red Hat Update for kernel-rt (RHSA-2023:7389)

[242489](#) Red Hat Update for kpatch-patch (RHSA-2023:7411)

[356571](#) Amazon Linux Security Advisory for kernel-livepatch : ALAS2LIVEPATCH-2023-155

[378892](#) Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0114)

[379043](#) Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0136)

[6000212](#) Debian Security Update for linux (DSA 5480-1)

[6000220](#) Debian Security Update for linux (DSA 5492-1)

[6000265](#) Debian Security Update for linux-5.10 (DLA 3623-1)

[6140231](#) AWS Bottlerocket Security Update for kernel (GHSA-cvgh-x4fw-9pgh)

[673484](#) EulerOS Security Update for kernel (EulerOS-SA-2023-3033)

[673732](#) EulerOS Security Update for kernel (EulerOS-SA-2023-3010)

[754832](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3600-1)

[754833](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3599-1)

[754855](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3656-1)

754866	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3684-1)
754867	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3683-1)
754868	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3682-1)
754884	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3704-1)
754899	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3599-2)
754900	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3600-2)
754901	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3704-2)
754903	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3683-2)
755026	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3964-1)
755037	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3971-1)
755038	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3969-1)
755043	SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:3988-1)
755135	SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 5 for SLE 15 SP4) (SUSE-SU-2023:4166-1)
755136	SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 11 for SLE 15 SP4) (SUSE-SU-2023:4165-1)
755140	SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 1 for SLE 15 SP5) (SUSE-SU-2023:4175-1)
755154	SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 3 for SLE 15 SP4) (SUSE-SU-2023:4201-1)
755168	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 33 for SLE 15 SP3) (SUSE-SU-2023:4219-1)
755179	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 35 for SLE 15 SP3) (SUSE-SU-2023:4260-1)
755184	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 29 for SLE 15 SP3) (SUSE-SU-2023:4239-1)
755186	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 4 for SLE 15 SP4) (SUSE-SU-2023:4267-1)
755192	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 7 for SLE 15 SP4) (SUSE-SU-2023:4285-1)
755196	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 16 for SLE 15 SP4) (SUSE-SU-2023:4301-1)
755210	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 8 for SLE 15 SP4) (SUSE-SU-2023:4308-1)
755212	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 0 for SLE 15 SP5) (SUSE-SU-2023:4326-1)
755213	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 3 for SLE 15 SP5) (SUSE-SU-2023:4325-1)
755214	SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 15 for SLE 15 SP4) (SUSE-SU-2023:4322-1)
941249	AlmaLinux Security Update for kernel (ALSA-2023:5069)
941254	AlmaLinux Security Update for kernel-rt (ALSA-2023:5091)

© [CVE.report](#) 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

**CVE.report and Source URL Uptime Status [status.cve.report](#)**