



CVE-2022-29581

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

Summary

CVE	CVE-2022-29581
State	PUBLIC
Assigner	security@google.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-05-17 17:15:00 UTC
Updated	2023-06-28 20:26:00 UTC
Description	Improper Update of Reference Count vulnerability in net/sched of Linux Kernel allows local attacker to cause privilege esca

Risk And Classification

Problem Types: NVD-CWE-Other

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Canonical	Ubuntu Linux	16.04	All	All	All
Operating System	Canonical	Ubuntu Linux	18.04	All	All	All
Operating System	Canonical	Ubuntu Linux	20.04	All	All	All
Operating System	Canonical	Ubuntu Linux	22.04	All	All	All
Operating System	Debian	Debian Linux	10.0	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Hardware	Netapp	H300e	-	All	All	All
Operating System	Netapp	H300e Firmware	-	All	All	All
Hardware	Netapp	H300s	-	All	All	All
Operating System	Netapp	H300s Firmware	-	All	All	All
Hardware	Netapp	H410c	-	All	All	All
Operating System	Netapp	H410c Firmware	-	All	All	All
Hardware	Netapp	H410s	-	All	All	All
Operating System	Netapp	H410s Firmware	-	All	All	All
Hardware	Netapp	H500e	-	All	All	All
Operating System	Netapp	H500e Firmware	-	All	All	All

Hardware	Netapp	H500s	-	All	All	All
Operating System	Netapp	H500s Firmware	-	All	All	All
Hardware	Netapp	H700e	-	All	All	All
Operating System	Netapp	H700e Firmware	-	All	All	All
Hardware	Netapp	H700s	-	All	All	All
Operating System	Netapp	H700s Firmware	-	All	All	All

References

Reference	Source	Link	Tags
?????????	MISC	kernel.dance	
Kernel Live Patch Security Notice LSN-0089-1 ≈ Packet Storm	MISC	packetstormsecurity.com	
CVE-2022-29581 Linux Kernel Vulnerability in NetApp Products NetApp Product Security	CONFIRM	security.netapp.com	
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	
Debian -- Security Information -- DSA-5173-1 linux	DEBIAN	www.debian.org	
Kernel Live Patch Security Notice LSN-0086-1 ≈ Packet Storm	MISC	packetstormsecurity.com	
oss-security - CVE-2022-29581: Linux kernel cls_u32 UAF	MLIST	www.openwall.com	
CVE Program record	CVE.ORG	www.cve.org	canonic
NVD vulnerability detail	NVD	nvd.nist.gov	canonic

Vendor Comments And Credit

Discovery Credit

LEGACY: syzbot <syzkaller@googlegroups.com>

Legacy QID Mappings

160210 Oracle Enterprise Linux Security Update for kernel (ELSA-2022-7683)
160270 Oracle Enterprise Linux Security Update for kernel (ELSA-2022-8267)
179298 Debian Security Update for linux (CVE-2022-29581)
180605 Debian Security Update for linux (DSA 5173-1)
198798 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5443-1)
198802 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5442-1)
198803 Ubuntu Security Notification for Linux kernel Vulnerability (USN-5444-1)
198812 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5442-2)
198813 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5443-2)

240815 Red Hat Update for kernel-rt (RHSA-2022:7444)
240817 Red Hat Update for kernel security (RHSA-2022:7683)
240869 Red Hat Update for kernel-rt (RHSA-2022:7933)
240904 Red Hat Update for kernel security (RHSA-2022:8267)
242941 Red Hat Update for kernel (RHSA-2024:0930)
353947 Amazon Linux Security Advisory for kernel : ALAS2-2022-1798
353956 Amazon Linux Security Advisory for kernel : ALAS-2022-1591
353960 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2022-014
353962 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-026
353964 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.15-2022-001
354039 Amazon Linux Security Advisory for kernel-livepatch : ALAS2LIVEPATCH-2022-091
354327 Amazon Linux Security Advisory for kernel : ALAS2022-2022-083
354468 Amazon Linux Security Advisory for kernel : ALAS2022-2022-185
354542 Amazon Linux Security Advisory for kernel : ALAS-2022-185
355199 Amazon Linux Security Advisory for kernel : ALAS2023-2023-070
355565 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.15-2023-023
377053 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2022:0028)
377117 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2022:0158)
610430 Google Android September 2022 Security Patch Missing for Huawei EMUI
610432 Google Pixel Android August 2022 Security Patch Missing
6140197 AWS Bottlerocket Security Update for kernel (GHSA-2mx9-xmqw-ghpr)
671915 EulerOS Security Update for kernel (EulerOS-SA-2022-1969)
671929 EulerOS Security Update for kernel (EulerOS-SA-2022-1999)
672017 EulerOS Security Update for kernel (EulerOS-SA-2022-2244)
672037 EulerOS Security Update for kernel (EulerOS-SA-2022-2257)
672045 EulerOS Security Update for kernel (EulerOS-SA-2022-2225)
672141 EulerOS Security Update for kernel (EulerOS-SA-2022-2441)
752461 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2803-1)

752502 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2875-1)
752584 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3265-1)
752592 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3282-1)
752615 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3408-1)
752632 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3450-1)
753114 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 16 for SLE 15 SP3) (SUSE-SU-2022:3407-1)
753135 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2722-1)
753156 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2741-1)
753177 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 29 for SLE 15 SP2) (SUSE-SU-2022:3465-1)
753201 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 22 for SLE 15 SP3) (SUSE-SU-2022:3377-1)
753254 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 26 for SLE 15 SP2) (SUSE-SU-2022:3476-1)
753283 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 19 for SLE 15 SP3) (SUSE-SU-2022:3432-1)
753314 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 25 for SLE 15 SP2) (SUSE-SU-2022:3445-1)
753316 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2892-1)
753332 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 27 for SLE 15 SP2) (SUSE-SU-2022:3463-1)
753335 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 0 for SLE 15 SP4) (SUSE-SU-2022:3370-1)
753356 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 20 for SLE 15 SP3) (SUSE-SU-2022:3369-1)
753365 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 32 for SLE 15 SP1) (SUSE-SU-2022:3366-1)
753376 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 14 for SLE 15 SP3) (SUSE-SU-2022:3368-1)
753424 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 30 for SLE 15 SP1) (SUSE-SU-2022:3359-1)
753449 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 1 for SLE 15 SP4) (SUSE-SU-2022:3412-1)
753458 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 13 for SLE 15 SP3) (SUSE-SU-2022:3433-1)
753480 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 18 for SLE 15 SP3) (SUSE-SU-2022:3464-1)
901994 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (9756)
902229 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (9756-1)
905966 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (9756-2)
906286 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (12132-2)
940732 AlmaLinux Security Update for kernel (ALSA-2022:7683)
940766 AlmaLinux Security Update for kernel-rt (ALSA-2022:7444)

940798 AlmaLinux Security Update for kernel (ALSA-2022:8267)

940843 AlmaLinux Security Update for kernel-rt (ALSA-2022:7933)

960176 Rocky Linux Security Update for kernel-rt (RLSA-2022:7444)

960184 Rocky Linux Security Update for kernel (RLSA-2022:7683)

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