



CVE-2021-31829

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Summary

CVE	CVE-2021-31829
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-05-06 16:15:00 UTC
Updated	2023-11-07 03:35:00 UTC
Description	kernel/bpf/verifier.c in the Linux kernel through 5.12.1 performs undesirable speculative loads, leading to disclosure of stack

Risk And Classification

Problem Types: CWE-863

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Debian	Debian Linux	9.0	All	All	All
Operating System	Fedoraproject	Fedora	32	All	All	All
Operating System	Fedoraproject	Fedora	33	All	All	All
Operating System	Fedoraproject	Fedora	34	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All

References

Reference

[SECURITY] Fedora 33 Update: kernel-5.11.19-200.fc33 - package-announce - Fedora Mailing-Lists
oss-security - [CVE-2021-31829] Linux kernel protection of stack pointer against speculative pointer arithmetic can be bypassed to leak conter
[SECURITY] Fedora 32 Update: kernel-5.11.19-100.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 34 Update: kernel-tools-5.11.19-300.fc34 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 34 Update: kernel-tools-5.11.19-300.fc34 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: kernel-5.11.19-100.fc32 - package-announce - Fedora Mailing-Lists
bpf: Fix leakage of uninitialized bpf stack under speculation · torvalds/linux@801c605 · GitHub
[SECURITY] [DLA 2690-1] linux-4.19 security update

CVE Program record

NVD vulnerability detail

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[159306](#) Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9362)

[159307](#) Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9363)

[159492](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2021-4356)

[178679](#) Debian Security Update for linux-4.19 (DLA 2690-1)

[179875](#) Debian Security Update for linux (CVE-2021-31829)

[198402](#) Ubuntu Security Notification for Linux kernel (OEM) vulnerabilities (USN-4983-1)

[198416](#) Ubuntu Security Notification for Linux kernel vulnerabilities (USN-4997-1)

[198417](#) Ubuntu Security Notification for Linux kernel vulnerabilities (USN-4999-1)

[198418](#) Ubuntu Security Notification for Linux kernel vulnerabilities (USN-5000-1)

[198425](#) Ubuntu Security Notification for Linux kernel (KVM) vulnerabilities (USN-5000-2)

[198426](#) Ubuntu Security Notification for Linux kernel (KVM) vulnerabilities (USN-4997-2)

[198459](#) Ubuntu Security Notification for Linux, Linux-aws, Linux-aws-hwe, Linux-azure, Linux-azure-4.15, Linux-gcp, (USN-5018-1)

[239816](#) Red Hat Update for kernel security (RHSA-2021:4356)

[239879](#) Red Hat Update for kernel-rt (RHSA-2021:4140)

[281177](#) Fedora Security Update for kernel (FEDORA-2021-9c0276e935)

[281178](#) Fedora Security Update for kernel (FEDORA-2021-7c085ca697)

[281179](#) Fedora Security Update for kernel (FEDORA-2021-5ad5249c43)

[352366](#) Amazon Linux Security Advisory for kernel: ALAS-2021-1503

[352375](#) Amazon Linux Security Advisory for kernel: ALAS2-2021-1636

[353148](#) Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-003

[353159](#) Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2022-001

[6140161](#) AWS Bottlerocket Security Update for kernel (GHSA-9f3j-c23v-mp5f)

[670488](#) EulerOS Security Update for kernel (EulerOS-SA-2021-2246)

670514 EulerOS Security Update for kernel (EulerOS-SA-2021-2272)
670543 EulerOS Security Update for kernel (EulerOS-SA-2021-2301)
900096 CBL-Mariner Linux Security Update for kernel 5.10.52.1
900304 CBL-Mariner Linux Security Update for kernel 5.10.57.1
900319 CBL-Mariner Linux Security Update for kernel 5.10.60.1
901108 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (6557-1)
903649 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (4179)
906242 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (4179-1)
940265 AlmaLinux Security Update for kernel (ALSA-2021:4356)

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