CVE-2021-3493

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Summary

CVE	CVE-2021-3493
State	PUBLIC
Assigner	security@ubuntu.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-04-17 05:15:00 UTC
Updated	2023-07-07 19:10:00 UTC
Description	The overlayfs implementation in the linux kernel did not properly validate with respect to user namespaces the setting of file

Risk And Classification

EPSS: 0.771920000 probability, percentile 0.989620000 (date 2026-04-01)

CISA KEV: Listed on 2022-10-20; due 2022-11-10; ransomware use Unknown

Problem Types: CWE-863

CISA Known Exploited Vulnerability

Vendor	Linux
Product	Kernel
Name	Linux Kernel Privilege Escalation Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/commit/?id=7c03e2cda4a584cadc398e8f6641ca9988a39d52; https://nvd.nist.gov/vuln/detail/CVE-2021-3493

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	All	All	All	All
Operating System	Canonical	Ubuntu Linux	All	All	All	All

References

Reference	Source	Link	Tags
Ubuntu Overlayfs Local Privilege Escalation ≈ Packet Storm	MISC	packetstormsecurity.com	
oss-security - [CVE-2021-3493] Ubuntu Linux kernel overlayfs fs caps privilege escalation	MISC	www.openwall.com	
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	

kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	
Ubuntu OverlayFS Local Privilege Escalation ≈ Packet Storm	MISC	packetstormsecurity.com	
Kernel Live Patch Security Notice LSN-0076-1 ≈ Packet Storm	MISC	packetstormsecurity.com	
USN-4917-1: Linux kernel vulnerabilities | Ubuntu security notices | Ubuntu	MISC	ubuntu.com	
CVE Program record	CVE.ORG	www.cve.org	canonica
NVD vulnerability detail	NVD	nvd.nist.gov	canonica
CISA Known Exploited Vulnerabilities catalog	CISA	www.cisa.gov	kev

Vendor Comments And Credit

Discovery Credit

LEGACY: An independent security researcher reporting to the SSD Secure Disclosure program

Legacy QID Mappings

- 180539 Debian Security Update for linux (CVE-2021-3493)
- 198331 Ubuntu Security Notification for Linux kernel (OEM) vulnerabilities (USN-4915-1)
- 198332 Ubuntu Security Notification for Linux kernel vulnerabilities (USN-4916-1)
- 198333 Ubuntu Security Notification for Linux kernel vulnerabilities (USN-4917-1)