



PackageKit vulnerable to TOCTOU Race on Transaction Flags leads to arbitrary package installation as root

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

Summary

CVE	CVE-2026-41651
State	PUBLISHED
Assigner	GitHub_M
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-04-22 14:17:04 UTC
Updated	2026-04-22 21:23:52 UTC
Description	PackageKit is a D-Bus abstraction layer that allows the user to manage packages in a secure way using a cross-distro, cr

Risk And Classification

Primary CVSS: v3.1 8.8 HIGH from security-advisories@github.com

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H

Problem Types: CWE-367 | CWE-367 CWE-367: Time-of-check Time-of-use (TOCTOU) Race Condition

Version	Source	Type	Score	Severity	Vector
3.1	security-advisories@github.com	Secondary	8.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H
3.1	CNA	DECLARED	8.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Changed

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	PackageKit	PackageKit	affected >= 1.0.2, <= 1.3.4	Not specified

References

Reference	Source	Link
www.openwall.com/lists/oss-security/2026/04/22/6	af854a3a-2127-422b-91ae-364da2661108	www.op
github.com/PackageKit/PackageKit/blob/04057883189efa225a7c785591aa87cb29...	security-advisories@github.com	github.c
github.security.telekom.com/2026/04/pack2theroot-linux-local-privilege-escalation.html	134c704f-9b21-4f2e-91b3-4a467353bcc0	github.s
github.com/PackageKit/PackageKit/blob/04057883189efa225a7c785591aa87cb29...	security-advisories@github.com	github.c
github.com/PackageKit/PackageKit/blob/04057883189efa225a7c785591aa87cb29...	security-advisories@github.com	github.c
github.com/PackageKit/PackageKit/security/advisories/GHSA-f55j-vvr9-69xv	security-advisories@github.com	github.c
CVE Program record	CVE.ORG	www.cv
NVD vulnerability detail	NVD	nvd.nist

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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