ext4: reject mount if bigalloc with s_first_data_block != 0

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Summary

CVE	CVE-2026-31447
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-04-22 14:16:38 UTC
Updated	2026-04-27 14:16:38 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: ext4: reject mount if bigalloc with s_first_data_block != 0 b

Risk And Classification

Primary CVSS: v3.1 7.8 HIGH from 416baaa9-dc9f-4396-8d5f-8c081fb06d67

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

EPSS: 0.000240000 probability, percentile 0.067850000 (date 2026-04-27)

Version	Source	Type	Score	Severity	Vector
3.1	416baaa9-dc9f-4396-8d5f-8c081fb06d67	Secondary	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
3.1	CNA	DECLARED	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CVSS v3.1 Breakdown

Attack Vector
Local

Attack Complexity
Low

Privileges Required
None

User Interaction
Required

Scope
Unchanged

Confidentiality
High

Integrity
High

Availability

High

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

Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c 5ad6d994255e27a3254079dfb50ca861fc31f2d0 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c 3a926957cc95899ef88529710836edadc03c71a1 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c 7b58c110b4e1f028eb38eec9ed3555e9be81c8b0 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c b77de3fceafbb39f30e4ff5dc986f863d5456417 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c d787d3ae96648dc14a3b7ca8fde817177e82c1c7 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c ad1f6d608f33f59d21a3d025615d6786a6443998 git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c 7d5b04290156c3fc316eecc86a4f9d201ab7d44a git
CNA	Linux	Linux	affected 281b59959707dfae03ce038cdf231bf4904e170c 3822743dc20386d9897e999dbb990befa3a5b3f8 git
CNA	Linux	Linux	affected 3.2
CNA	Linux	Linux	unaffected 3.2 semver
CNA	Linux	Linux	unaffected 5.10.253 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.203 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.168 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.131 6.6.* semver
CNA	Linux	Linux	unaffected 6.12.80 6.12.* semver
CNA	Linux	Linux	unaffected 6.18.21 6.18.* semver
CNA	Linux	Linux	unaffected 6.19.11 6.19.* semver
CNA	Linux	Linux	unaffected 7.0 * original_commit_for_fix

References

Reference	Source	Link	Tags
git.kernel.org/stable/c/3a926957cc95899ef88529710836edadc03c71a1	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/b77de3fceafbb39f30e4ff5dc986f863d5456417	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/7d5b04290156c3fc316eecc86a4f9d201ab7d44a	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/5ad6d994255e27a3254079dfb50ca861fc31f2d0	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/7b58c110b4e1f028eb38eec9ed3555e9be81c8b0	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/ad1f6d608f33f59d21a3d025615d6786a6443998	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/3822743dc20386d9897e999dbb990befa3a5b3f8	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	
git.kernel.org/stable/c/d787d3ae96648dc14a3b7ca8fde817177e82c1c7	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org	

CVE Program record	CVE.ORG	www.cve.org	canonica
NVD vulnerability detail	NVD	nvd.nist.gov	canonica

No vendor comments have been submitted for this CVE.

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