CVE-2017-1000253

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Summary

CVE	CVE-2017-1000253
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2017-10-05 01:29:00 UTC
Updated	2023-01-17 21:04:00 UTC
Description	Linux distributions that have not patched their long-term kernels with https://git.kernel.org/linus/a87938b2e246b81b4fb713e

Risk And Classification

EPSS: 0.541940000 probability, percentile 0.980000000 (date 2026-04-01)

CISA KEV: Listed on 2024-09-09; due 2024-09-30; ransomware use Known

Problem Types: CWE-119

CISA Known Exploited Vulnerability

Vendor	Linux
Product	Kernel
Name	Linux Kernel PIE Stack Buffer Corruption Vulnerability
Required Action	Apply mitigations per vendor instructions or discontinue use of the product if mitigations are unavailable.
Notes	This vulnerability affects a common open-source component, third-party library, or a protocol used by different products. For more information, please see: https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/commit/?id=a87938b2e246b81b4fb713edb371a9fa3c5c3c86; https://nvd.nist.gov/vuln/detail/CVE-2017-1000253

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Centos	Centos	6.0	All	All	All
Operating System	Centos	Centos	6.1	All	All	All
Operating System	Centos	Centos	6.2	All	All	All
Operating System	Centos	Centos	6.3	All	All	All
Operating System	Centos	Centos	6.4	All	All	All
Operating System	Centos	Centos	6.5	All	All	All

Operating System	Centos	Centos	6.6	All	All	All
Operating System	Centos	Centos	6.7	All	All	All
Operating System	Centos	Centos	6.8	All	All	All
Operating System	Centos	Centos	6.9	All	All	All
Operating System	Centos	Centos	7.1406	All	All	All
Operating System	Centos	Centos	7.1503	All	All	All
Operating System	Centos	Centos	7.1511	All	All	All
Operating System	Centos	Centos	7.1611	All	All	All
Operating System	Centos	Centos	6.0	All	All	All
Operating System	Centos	Centos	6.1	All	All	All
Operating System	Centos	Centos	6.2	All	All	All
Operating System	Centos	Centos	6.3	All	All	All
Operating System	Centos	Centos	6.4	All	All	All
Operating System	Centos	Centos	6.5	All	All	All
Operating System	Centos	Centos	6.6	All	All	All
Operating System	Centos	Centos	6.7	All	All	All
Operating System	Centos	Centos	6.8	All	All	All
Operating System	Centos	Centos	6.9	All	All	All
Operating System	Centos	Centos	7.1406	All	All	All
Operating System	Centos	Centos	7.1503	All	All	All
Operating System	Centos	Centos	7.1511	All	All	All
Operating System	Centos	Centos	7.1611	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Redhat	Enterprise Linux	6.0	All	All	All
Operating System	Redhat	Enterprise Linux	6.1	All	All	All
Operating System	Redhat	Enterprise Linux	6.2	All	All	All
Operating System	Redhat	Enterprise Linux	6.3	All	All	All
Operating System	Redhat	Enterprise Linux	6.4	All	All	All
Operating System	Redhat	Enterprise Linux	6.5	All	All	All
Operating System	Redhat	Enterprise Linux	6.6	All	All	All
Operating System	Redhat	Enterprise Linux	6.7	All	All	All
Operating System	Redhat	Enterprise Linux	6.8	All	All	All
Operating System	Redhat	Enterprise Linux	6.9	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	7.1	All	All	All

Operating System	Redhat	Enterprise Linux	7.2	All	All	All
Operating System	Redhat	Enterprise Linux	7.3	All	All	All
Operating System	Redhat	Enterprise Linux	6.0	All	All	All
Operating System	Redhat	Enterprise Linux	6.1	All	All	All
Operating System	Redhat	Enterprise Linux	6.2	All	All	All
Operating System	Redhat	Enterprise Linux	6.3	All	All	All
Operating System	Redhat	Enterprise Linux	6.4	All	All	All
Operating System	Redhat	Enterprise Linux	6.5	All	All	All
Operating System	Redhat	Enterprise Linux	6.6	All	All	All
Operating System	Redhat	Enterprise Linux	6.7	All	All	All
Operating System	Redhat	Enterprise Linux	6.8	All	All	All
Operating System	Redhat	Enterprise Linux	6.9	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	7.1	All	All	All
Operating System	Redhat	Enterprise Linux	7.2	All	All	All
Operating System	Redhat	Enterprise Linux	7.3	All	All	All

References

Reference	Source	Link
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
www.qualys.com/2017/09/26/cve-2017-1000253/cve-2017-1000253.txt	MISC	www.qu
Linux Kernel Stack Corruption Flaw in PIE Executables Lets Local Users Gain Elevated Privileges - SecurityTracker	SECTRACK	www.sec
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Red Hat Customer Portal	REDHAT	access.r
Malformed Request	BID	www.sec
Red Hat Customer Portal	REDHAT	access.r
CVE Program record	CVE.ORG	www.cve
NVD vulnerability detail	NVD	nvd.nist.
CISA Known Exploited Vulnerabilities catalog	CISA	www.cis

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

671064 EulerOS Security Update for kernel (EulerOS-SA-2019-2599)