CVE-2022-4543

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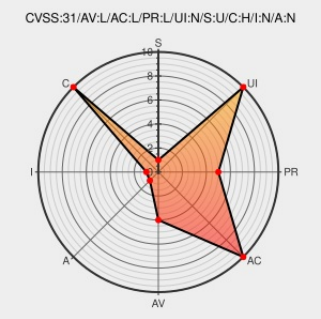
CVE-2022-4543

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Linux Kernel from Linux contain the following vulnerability:

A flaw named "EntryBleed" was found in the Linux Kernel Page Table Isolation (KPTI). This issue could allow a local attacker to leak KASLR base via prefetch side-channels based on TLB timing for Intel systems.

CVE-2022-4543 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 5.5 - MEDIUM

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	NONE	NONE

CVE References

Description	Tags	Link
oss-security - CVE-2022-4543: KASLR Leakage Achievable even with KPTI through Prefetch Side-Channel	www.openwall.com text/x-c	MISC www.openwall.com/lists/oss-security/2022/12/16/3
Will's Root: EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543)	www.willsroot.io text/html	MISC www.willsroot.io/2022/12/entrybleed.html

Related QID Numbers

905246 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (12981)

905251 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (12989)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	All	All	All	All

cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@oss_security	CVE-2022-4543: KASLR Leakage Achievable even with KPTI through Prefetch Side-Channel: Posted by Will on Dec 16I've… twitter.com/i/web/status/1…	2022-12-16 22:42:02
@linkersec	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) An article about using Meltdown to bypass KASL… twitter.com/i/web/status/1…	2022-12-17 16:04:45
@ipssignatures	The vuln CVE-2022-4543 has a tweet created 0 days ago and retweeted 10 times. twitter.com/linkersec/stat… #pow1rtrtwwcve	2022-12-17 22:06:01
@Komodosec	#security #linux EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) willsroot.io/2022/12/entryb…	2022-12-17 23:14:33
@Sujeet	CVE-2022-4543, named “EntryBleed” by Will from @cor_ctf; appears to have the potential to bypass KASLR on systems w… twitter.com/i/web/status/1…	2022-12-18 14:30:18
@masami256	Will's Root: EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) willsroot.io/2022/12/entryb…	2022-12-18 23:33:52
@ksg93rd	#Threat_Research EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) willsroot.io/2022/12/entryb…]-> seclists.org/oss-sec/2022/q…	2022-12-19 05:02:47
@PentestingN	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) Recently, I’ve discovered that Linux KPTI has i… twitter.com/i/web/status/1…	2022-12-19 07:14:46
@SeYasashi	メルトダウンとかスペクターに関係するintel製cpuの脆弱性ぽいな access.redhat.com/security/cve/c…	2022-12-19 11:22:36
@_bcoles	Support for #EntryBleed prefetch #KASLR bypass (CVE-2022-4543) added to KASLD - github.com/bcoles/kasld Should wor… twitter.com/i/web/status/1…	2022-12-21 15:14:48
@kmkz_security	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) willsroot.io/2022/12/entryb…	2022-12-21 20:41:00
@ipssignatures	The vuln CVE-2022-4543 has a tweet created 0 days ago and retweeted 10 times. twitter.com/kmkz_security/… #pow1rtrtwwcve	2022-12-22 12:06:00
@ipssignatures	The vuln CVE-2022-4543 has a tweet created 1 days ago and retweeted 10 times. twitter.com/_bcoles/status… #pow1rtrtwwcve	2022-12-23 08:06:01
@Dinosn	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543) reddit.com/r/lowlevel/com…	2022-12-23 18:55:41
@CVEreport	CVE-2022-4543 : A flaw named "EntryBleed" was found in the #Linux Kernel Page Table Isolation KPTI . This issue co… twitter.com/i/web/status/1…	2023-01-11 15:04:48
/r/linkersec	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543)	2022-12-17 16:05:33

		16:05:33
/r/lowlevel	EntryBleed: Breaking KASLR under KPTI with Prefetch (CVE-2022-4543)	2022-12-22 07:44:00
/r/netcve	CVE-2022-4543	2023-01-11 15:40:16
/r/CyberExploits	CVE-2022-4543 | Linux Kernel Page Table Isolation EntryBleed information disclosure	2023-01-11 18:25:33

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