



# CVE-2015-1593

- MITRE
- NVD
- CVE.ORG
- JSON API
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## Summary

|                 |                                                                                                                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CVE             | CVE-2015-1593                                                                                                                                                                                                                                             |
| State           | PUBLISHED                                                                                                                                                                                                                                                 |
| Assigner        | mitre                                                                                                                                                                                                                                                     |
| Source Priority | CVE Program / NVD first with legacy fallback                                                                                                                                                                                                              |
| Published       | 2015-03-16 10:59:07 UTC                                                                                                                                                                                                                                   |
| Updated         | 2026-05-06 22:30:45 UTC                                                                                                                                                                                                                                   |
| Description     | The stack randomization feature in the Linux kernel before 3.19.1 on 64-bit platforms uses incorrect data types for the result of the randomization function, which allows attackers to predict the output of the function and exploit the vulnerability. |

## Risk And Classification

**Primary CVSS:** v2.0 5 from nvd@nist.gov

AV:N/AC:L/Au:N/C:P/I:N/A:N

**Problem Types:** CWE-264 | n/a

## CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

Low

Authentication

None

Confidentiality

Partial

Integrity

None

Availability

None

AV:N/AC:L/Au:N/C:P/I:N/A:N

## NVD Known Affected Configurations (CPE 2.3)

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

| Vendor Declared Affected Products                                                                |        |         |                                |               |
|--------------------------------------------------------------------------------------------------|--------|---------|--------------------------------|---------------|
| Source                                                                                           | Vendor | Product | Version                        | Platforms     |
| CNA                                                                                              | Na     | N/a     | affected n/a                   | Not specified |
|                                                                                                  |        |         |                                |               |
| References                                                                                       |        |         |                                |               |
| Reference                                                                                        |        |         | Source                         |               |
| Red Hat Customer Portal                                                                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| Linux Kernel ASLR CVE-2015-1593 Integer Overflow Vulnerability                                   |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| [security-announce] openSUSE-SU-2015:0714-1: important: Security update                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| Red Hat Customer Portal                                                                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| Red Hat Customer Portal                                                                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2561-1: Linux kernel (OMAP4) vulnerabilities   Ubuntu                                        |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| [security-announce] SUSE-SU-2015:0736-1: important: Security update for                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| oss-security - Re: CVE-Request -- Linux ASLR integer overflow                                    |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2564-1: Linux kernel (Utopic HWE) vulnerabilities   Ubuntu                                   |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| CVE-2015-1593 - Linux ASLR integer overflow: Reducing stack entropy by four                      |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| Red Hat Customer Portal                                                                          |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2563-1: Linux kernel vulnerabilities   Ubuntu                                                |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| LKML: Kees Cook: Re: [PATH] Fix stack randomization on x86_64 bit                                |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| kernel/git/torvalds/linux.git - Linux kernel source tree                                         |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| x86, mm/ASLR: Fix stack randomization on 64-bit systems · torvalds/linux@4e7c22d · GitHub        |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2565-1: Linux kernel vulnerabilities   Ubuntu                                                |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| 1192519 – (CVE-2015-1593) CVE-2015-1593 kernel: Linux stack ASLR implementation Integer overflow |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2562-1: Linux kernel (Trusty HWE) vulnerabilities   Ubuntu                                   |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| www.kernel.org/pub/linux/kernel/v3.x/ChangeLog-3.19.1                                            |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| USN-2560-1: Linux kernel vulnerabilities   Ubuntu                                                |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| Debian -- Security Information -- DSA-3170-1 linux                                               |        |         | af854a3a-2127-422b-91ae-364da7 |               |
| kernel/git/torvalds/linux.git - Linux kernel source tree                                         |        |         | MITRE                          |               |
| CVE Program record                                                                               |        |         | CVE.ORG                        |               |
| NVD vulnerability detail                                                                         |        |         | NVD                            |               |
| <div></div>                                                                                      |        |         |                                |               |
| No vendor comments have been submitted for this CVE.                                             |        |         |                                |               |
|                                                                                                  |        |         |                                |               |
| There are currently no legacy QID mappings associated with this CVE.                             |        |         |                                |               |

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