

## Security Bulletin

# Red Hat Security Advisories: kernel security update - RHSA- 2025\_7956

|                    |   |                               |
|--------------------|---|-------------------------------|
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| Reference          | : | PSIRT-3149                    |
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| Version            | : | 2.2                           |
| Status             | : | Remediation                   |
| TLP Classification | : | CLEAR                         |
| Document date      | : | 5 December 2025               |
| Keywords           | : | CVE-2025-21966 CVE-2025-21993 |

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## List of changes

| Version | Date       | Description            |
|---------|------------|------------------------|
| 0.1     | 2025/08/21 | Initial Eviden version |
| 2.2     | 2025/12/05 | TLP changed for CLEAR  |

## Executive summary

Red Hat has released a set security advisories addressing several vulnerabilities in the Linux kernel. The update includes important security fixes designed to protect systems from potential exploits. Users are strongly advised to apply the kernel update promptly to maintain system integrity and prevent unauthorized access.

### CVE-2025-21966: score 7.0

In the Linux kernel, the following vulnerability has been resolved:\n\nndm-flakey: Fix memory corruption in optional corrupt\_bio\_byte feature\n\nFix memory corruption due to incorrect parameter being passed to bio\_init

kernel: dm-flakey: Fix memory corruption in optional corrupt\_bio\_byte feature

### CVE-2025-21993: score 7.1

In the Linux kernel, the following vulnerability has been resolved:\n\niscsi\_ibft: Fix UBSAN shift-out-of-bounds warning in ibft\_attr\_show\_nic()\n\nWhen performing an iSCSI boot using IPv6, iscsistart still reads the\n\n/sys/firmware/ibft/ethernetX/subnet-mask entry. Since the IPv6 prefix\n\nlength is 64, this causes the shift exponent to become negative,\n\ntriggering a UBSAN warning. As the concept of a subnet mask does not\n\napply to IPv6, the value is set to ~0 to suppress the warning message.

### RHSA-2025\_7956

|                |                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| RHSA-2025_7956 | <a href="#">Red Hat Security Advisory: kernel security update</a>                                                             |
| CVE            | <a href="#">CVE-2025-21966</a><br><a href="#">CVE-2025-21993</a>                                                              |
| Summary        | <b>An update for kernel is now available for Red Hat Enterprise Linux 9.</b>                                                  |
| Description    | Red Hat Product Security has rated this update as having a security impact of Moderate. A Common Vulnerability Scoring System |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>(CVSS) base score, which gives a detailed severity rating, is available for each vulnerability from the CVE link(s) in the References section.</p> <p>The kernel packages contain the Linux kernel, the core of any Linux operating system.</p> <p>Security Fix(es):</p> <ul style="list-style-type: none"><li>• kernel: dm-flakey: Fix memory corruption in optional corrupt_bio_byte feature (CVE-2025-21966)</li><li>• kernel: iscsi_ibft: Fix UBSAN shift-out-of-bounds warning in ibft_attr_show_nic() (CVE-2025-21993)</li></ul> |
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## Affected products

Linux Kernels used in all Eviden products are updated on a regular basis to guarantee that they are not older than 6 month when products are released.

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## Recommendations

Using `uname -r` you can check the current running kernel version. The version provided by this patch is `kernel-6.12.0-55.12.1.el10_0`. Recommendation is to check that running kernel version is at least this level.

## Available Vendor Patches

It is highly recommended to apply the latest kernel security patches released by Red Hat without delay. These updates contain critical fixes that address vulnerabilities which could be exploited by attackers. Prompt installation of these patches helps ensure your systems remain secure and stable. Regularly updating your systems with Red Hat's security fixes is essential for maintaining a strong defense against potential threats.

## Available Workarounds

No workaround is available.

## Available Mitigations

No mitigation identified.

## Available Exploits/PoC

Eviden is not aware of any exploitation of the reported vulnerabilities.

## References

1. <https://access.redhat.com/errata/RHSA-2025:7956>
2. <https://access.redhat.com/security/cve/CVE-2025-21966>
3. <https://access.redhat.com/security/cve/CVE-2025-21993>

## Glossary of terms

| Term           | Description                                                                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mitigation     | Refers to a setting, common configuration, or general best-practice, existing in a default state that could reduce the severity of exploitation of a vulnerability   |
| Neutralization | The neutralization phase is the decision-making process during which the risk posed by an incident is evaluated.                                                     |
| PoC            | Proof of Concept                                                                                                                                                     |
| Remediation    | The remediation phase ends with the delivering of a qualified solution/update fixing the vulnerability without regression.                                           |
| TI             | Threat Intelligence                                                                                                                                                  |
| TLP            | Traffic Light Protocol (TLP) FIRST Standards Definitions and Usage Guidance — Version 2.0. <a href="https://www.first.org/tlp/">https://www.first.org/tlp/</a>       |
| Workaround     | Refers to a setting or configuration change that does not correct the underlying vulnerability but would help block known attack vectors before you apply the update |

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- <https://support.bull.com/ols/product/security/psirt>

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