

## Security Bulletin

# Red Hat Security Advisories: kernel security update - RHSA- 2025\_4339

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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-2025-21927: score 8.1

In the Linux kernel, the following vulnerability has been resolved:\n\nnvme-tcp: fix potential memory corruption in nvme\_tcp\_recv\_pdu()\n\nnvme\_tcp\_recv\_pdu() doesn't check the validity of the header length.\n\nWhen header digests are enabled, a target might send a packet with an\ninvalid header length (e.g. 255), causing nvme\_tcp\_verify\_hdgst()\nto access memory outside the allocated area and cause memory corruptions\nby overwriting it with the calculated digest.\n\nFix this by rejecting packets with an unexpected header length.

kernel: nvme-tcp: fix potential memory corruption in nvme\_tcp\_recv\_pdu()

### RHSA-2025\_4339

RHSA-2025_4339	<a href="#">Red Hat Security Advisory: kernel security update</a>
CVE	<a href="#">CVE-2025-21927</a>
Summary	<b>An update for kernel is now available for Red Hat Enterprise Linux 9.2 Extended Update Support.</b>
Description	<p>Red Hat Product Security has rated this update as having a security impact of Important. A Common Vulnerability Scoring System (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: nvme-tcp: fix potential memory corruption in nvme_tcp_recv_pdu() (CVE-2025-21927)</li></ul> <p>For more details about the security issue(s), including the impact, a CVSS score, acknowledgments, and other related information, refer to the CVE page(s) listed in the References section.</p>
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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-5.14.0-284.115.1.el9\_2. 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-2025:4339>
2. <https://access.redhat.com/security/cve/CVE-2025-21927>

## 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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Eviden continuously monitors the security of its products. This Security Bulletin is shared under the constraints of the FIRST Traffic Light Protocol version 2.0 (TLP) to bring the attention of owners of the potentially affected Eviden products. Eviden recommends that all product owners determine whether the described situation is applicable to their individual case and take appropriate action.

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- Neutralization security bulletins are numbered 0.x
- Privately disclosed Remediation security bulletins are numbered 1.x
- Publicly disclosed Remediation security bulletins are numbered 2.x

Updated versions of this document can be found on:

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

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