

**Overall Rating: Critical**

This is a technical bulletin intended for technical audiences.

### Summary

The Vulnerability and Risk Management (VRM) Team is aware of multiple vulnerabilities recently disclosed for the Linux kernel.

### Technical Details

In the Linux kernel, the following vulnerability has been resolved: ipv6: sr: fix invalid unregister error path The error path of `seg6_init()` is wrong in case `CONFIG_IPV6_SEG6_LWTUNNEL` is not defined. In that case if `seg6_hmac_init()` fails, the `genl_unregister_family()` isn't called. This issue exist since commit `46738b1317e1` ("ipv6: sr: add option to control lwtunnel support"), and commit `5559cea2d5aa` ("ipv6: sr: fix possible use-after-free and null-ptr-deref") replaced `unregister_pernet_subsys()` with `genl_unregister_family()` in this error path.

In the Linux kernel, the following vulnerability has been resolved: keys: Fix overwrite of key expiration on instantiation The expiry time of a key is unconditionally overwritten during instantiation, defaulting to turn it permanent. This causes a problem for DNS resolution as the expiration set by user-space is overwritten to `TIME64_MAX`, disabling further DNS updates. Fix this by restoring the condition that `key_set_expiry` is only called when the pre-parser sets a specific expiry.

This vulnerability is rated as a **CRITICAL** risk. Software updates exist to address these risks.

### Action Required

- Locate the device or application and investigate.
- Notify business owner(s).
- Perform mitigating actions, as required.

Please notify [VRM](#) with any questions or concerns you may have at [vulnerabilityandriskmanagement@gov.bc.ca](mailto:vulnerabilityandriskmanagement@gov.bc.ca)

### References

- [CVE-2024-36031 CVE-2024-38612](#)
- <https://git.kernel.org/stable/c/00e6335329f23ac6cf3105931691674e28bc598c>
- <https://git.kernel.org/stable/c/10610575a3ac2a702bf5c57aa931beaf847949c7>
- <https://git.kernel.org/stable/c/160e9d2752181fcf18c662e74022d77d3164cd45>
- <https://git.kernel.org/stable/c/1a63730fb315bb1bab97edd69ff58ad45e04bb01>
- <https://git.kernel.org/stable/c/3398a40dcc88d3a7eef378247a023a78472db66>
- <https://git.kernel.org/stable/c/646cd236c55e2cb5f146fc41bbe4034c4af5b2a4>
- <https://git.kernel.org/stable/c/85a70ff1e572160f1eeb096ed48d09a1c9d4d89a>