

## Security Advisory 2022-018

# Serious Vulnerability in Linux Kernel

March 17, 2022 - v1.0

### **TLP:WHITE**

#### History:

• 17/03/2022 — v1.0 – Initial publication

## Summary

On February 22, Red Hat released a security advisory for fixing a severe vulnerability in the netfilter subcomponent in the Linux kernel. Listed as CVE-2022-25636 with a CVSS score of 7.8, it could allow a local attacker with a user account on the system to gain access to out-of-bounds memory, leading to a system crash or a privilege escalation [1]. This vulnerability is present in all recent major distributions and exploits for this vulnerability ware already published [2].

It is recommended to update the Linux distributions as soon as possible.

#### **Technical Details**

An out-of-bounds (OOB) memory access flaw was found in nft\_fwd\_dup\_netdev\_offload in the net/netfilter/nf\_dup\_netdev.c in the netfilter subcomponent in the Linux kernel due to a heap out-of-bounds write problem [2].

#### Affected Products

This vulnerability is present in the Linux kernel versions 5.4 through 5.6.10. on all major distributions such as Red Hat Enterprise Linux (RHEL) 8.x; Debian Bullseye; Ubuntu Linux, and SUSE Linux Enterprise 15.3 [3].

While the Linux kernel netfilter patch has been made available [4], the patch is not available yet in all distributions.

## Recommendations and Mitigations

CERT-EU recommends following the specific steps listed for each of the following Linux distributions:

- Debian Bullseye, more details in [5];
- Ubuntu releases, more details in [6];
- Suse Linux Enterprise, more details in [7] and [8];
- RedHat Hat Enterprise Linux more details in [9].

## References

- [1] https://access.redhat.com/security/cve/CVE-2022-25636
- [2] https://nickgregory.me/linux/security/2022/03/12/cve-2022-25636/
- [3] https://www.zdnet.com/article/nasty-linux-netfilter-firewall-security-hole-found/
- [5] https://security-tracker.debian.org/tracker/CVE-2022-25636
- [6] https://ubuntu.com/security/CVE-2022-25636
- [7] https://www.suse.com/security/cve/CVE-2022-25636.html
- [8] https://www.suse.com/support/kb/doc/?id=000020615
- [9] https://access.redhat.com/security/cve/CVE-2022-25636