مجلس الأمن السيبراني
CYBER SECURITY COUNCIL
United Arab Emirates

High-Severity Vulnerability in Linux Kernel

Tracking #:432318205
Date:02-01-2026

EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed a high-severity race condition vulnerability in the Linux kernel's Rust Binder module. The flaw can lead to kernel crashes, memory corruption, and system instability.

TECHNICAL DETAILS:

A high-severity race condition vulnerability has been identified in the Linux kernel's Rust Binder module. The flaw can lead to kernel crashes, memory corruption, and system instability. Exploitation may result in denial-of-service conditions through kernel panics and unexpected system reboots.

Vulnerability Details

- **CVE:** CVE-2025-68260
- **Severity:** High (7.1)
- The vulnerability exists in the Rust Binder component's death_list handling mechanism, specifically within the Node::release function located in drivers/android/binder/node.rs. The issue is caused by unsafe manipulation of linked list pointers without proper synchronization.
- The affected code acquires a lock, moves list entries to a temporary stack-based list, and then releases the lock before iterating over those entries. This creates a race window where concurrent threads may access or modify the same prev and next pointers, leading to memory corruption.
- When triggered, the vulnerability can cause kernel panics, page faults, and kernel oops messages, resulting in system crashes and service disruption.

Affected Versions

- Linux kernel 6.18

Fixed Versions

- Linux kernel 6.18.1 or later
- Linux kernel 6.19-rc1 or later

RECOMMENDATIONS:

- Update affected systems to a fixed Linux kernel version immediately.
- Monitor systems for crashes or instability until patched.
- Maintain regular kernel updates to reduce exposure to similar vulnerabilities.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- https://lore.kernel.org/linux-cve-announce/2025121614-CVE-2025-68260-558d@gregkh/T/#u?
- https://www.tenable.com/cve/CVE-2025-68260