## Overall Rating - High

**BRITISH COLUMBIA**

**This notification is intended as an informational bulletin for technical audiences.**

## Summary

The Vulnerability and Risk Management (VRM) Team is aware Ubuntu published security notices to address vulnerabilities in the Linux kernel affecting the following products:

- Ubuntu 14.04 ESM
- Ubuntu 16.04 ESM
- Ubuntu 18.04 ESM
- Ubuntu 20.04 LTS
- Ubuntu 22.04 LTS
- Ubuntu 23.04

## Technical Details

A heap out-of-bounds write vulnerability in the Linux kernel's Linux Kernel Performance Events (perf) component can be exploited to achieve local privilege escalation. If perf_read_group() is called while an event's sibling_list is smaller than its child's sibling_list, it can increment or write to memory locations outside of the allocated buffer. We recommend upgrading past commit 32671e3799ca2e4590773fd0e63aaa4229e50c06.

These vulnerabilities are rated as an overall **High** Severity.

## Recommended Action

- Investigate how your area of responsibility is affected.

- Notify business owner(s) as required.

- *Ensure mitigation is performed at your next change window.*

Please notify VRM with any questions or concerns you may have.

## References

- CVE-2023-31085, CVE-2023-31089, CVE-2023-39192, CVE-2023-39193, CVE-2023-39194, CVE-2023-45862, CVE-2023-5717
- Ubuntu Security Notice – USN-6494-2
- Ubuntu Security Notice – USN-6495-2
- Ubuntu Security Notice – USN-6496-2
- Ubuntu Security Notice  – USN-6502-4
- Ubuntu Security Notices