

## Overall Rating: HIGH



This is a technical bulletin intended for technical audiences.

### Summary

An OpenSSH unauthenticated remote code execution (RCE) vulnerability aka "regreSSHion" may allow root privileges on glibc-based Linux systems. This is assessed as a critical vulnerability and impacts OpenSSH versions between 8.5p1 and 9.

### Technical Details

The vulnerability is being tracked as CVE-2024-6387, is due to a signal handler race condition in sshd that may allow an unauthenticated remote attacker to execute arbitrary code as root. Reports are this vulnerability is possibly a regression of the previously patched OpenSSH vulnerability ([CVE-2006-5051](#)).

Successful exploitation has been demonstrated on 32-bit Linux/glibc systems with ASLR. Under lab conditions, the attack requires on average 6-8 hours of continuous connections up to the maximum the server will accept. Exploitation on 64-bit systems is believed to be possible but has not been demonstrated at this time.

OpenBSD is not vulnerable.

This vulnerability is rated as a **HIGH** risk. A software update exists to address this risk.

### 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 [atVulnerabilityandRiskManagement@gov.bc.ca](mailto:atVulnerabilityandRiskManagement@gov.bc.ca).

### References

- CVE-2024-6387, [CVE-2006-5051](#)
- [OpenSSH 9.8 was released on 2024-07-01](#)
- [OpenSSH](#)
- [An Unauthenticated Remote Code Execution \(RCE\) vulnerability in OpenSSH's server \(sshd\) on glibc-based Linux systems](#)
- [VRM Vulnerability Reports](#)