

Security Advisory 2024-076

Vulnerabilities in OpenVPN

August 12, 2024 — v1.0

TLP:CLEAR

History:

• 12/08/2024 — v1.0 – Initial publication

Summary

On March 20, 2024, the OpenVPN community project team disclosed several vulnerabilities, **CVE-2024-27459**, **CVE-2024-24974**, **CVE-2024-27903** and **CVE-2024-1305** that could be chained to achieve remote code execution (RCE) and local privilege escalation (LPE) [1].

On August 8, 2024, Microsoft released a writeup for those vulnerabilities [2].

Technical Details

- CVE-2024-27459: Vulnerability in the communication mechanism between the openvpn.exe process and the openvpnserv.exe service.
- CVE-2024-24974: Vulnerability involving unprivileged access to an operating system resource. The openvpnserv.exe service spawns a new openvpn.exe process based on user requests received through the \\openvpn\\service named pipe.
- CVE-2024-27903: Vulnerability in OpenVPN's plugin mechanism that permits plugins to be loaded from various paths on an endpoint device.
- CVE-2024-1305: Vulnerability in the "tap-windows6" project that involves developing the Terminal Access Point (TAP) adapter used by OpenVPN. In the project's src folder, the device.c file contains the code for the TAP device object and its initialisation.

You can find the complete technical explanation in the Microsoft report [2].

Affected Products

All versions of OpenVPN prior to version 2.6.10 (and 2.5.10).

Recommendations

CERT-EU recommends OpenVPN users to apply the latest security updates as soon as possible [3].

References

[1] https://forums-new.openvpn.net/forum/announcements/69-release-openvpn-version-2-6-10

[2] https://www.microsoft.com/en-us/security/blog/2024/08/08/chained-for-attack-openvpn-vulnerabilities-discovered-leading-to-rce-and-lpe/

[3] https://openvpn.net/community-downloads/