Silver Peak Security Advisory

Pre-Release Notification

DOS Security Vulnerability

Node.js is susceptible to a remote DoS attack

CVE-2017-14919 published by node.js on October 24, 2017

Summary:

This is a node.js security advisory for CVE-2017-14919 and is dated October 24, 2017.

Node.js was susceptible to a remote DoS attack due to a change that came in as part of zlib v1.2.9. In zlib v1.2.9 8 became an invalid value for the windowBits parameter and Node's zlib module will crash or throw an exception (depending on the version) if you call:

zlib.createDeflateRaw({windowBits: 8})

This problem (Node.js crashing or throwing an exception) could be remotely exploited using some of the existing WebSocket clients that may request a value of 8 for windowBits in certain cases or with a custom built WebSocket client. There may also exist other vectors through which a zLib operation would be initiated by a remote request with a window size that results in a value of windowBits of 8.

This problem was resolved within Node.js by changing any request for a windowBits size of 8 to use a windowsBits size of 9 instead. This is consistent with previous zLib behavior and we believe minimizes the impact of the change on existing applications.

A device is vulnerable to CVE-2017-14919 if it:
Runs Silver Peak VXOA software and allows web access to external networks.

Applicability to Silver Peak deployments: Medium
This is because it only affects web access, and not the underlying traffic.

Recommended Action for Silver Peak Customers:

Silver Peak GMS / Unity Orchestrator:
Silver Peak Unity Orchestrator/GMS is NOT susceptible to this vulnerability.

Silver Peak VXOA release for NX/VX/VRX/CPX/EdgeConnect appliances:
It is recommended to upgrade Silver peak NX/VX/VRX/CPX/EdgeConnect to the below mentioned releases to mitigate risk against the vulnerability. The patches are in line with the recommendations in the CVE-2017-14919 advisory.

Resolution:

Silver Peak Issue Id VXOA-31933 tracks the vulnerabilities.

The Resolution for this vulnerability will be in each of the below mentioned branches of release:

Silver Peak VXOA release 8.1.5.7 and later

Silver Peak VXOA release 8.1.4.15 and later

Silver Peak VXOA release 8.1.7.0 and later

Details:

The full details of the advisory are located at-

https://nodejs.org/en/blog/vulnerability/oct-2017-dos/

Thank you.

Security Incident Response Team

Silver Peak