

Sha1-Hulud: The Preinstall Worm That Hijacked 26,000 Repos

What Happened?

"Sha1-Hulud" is a sophisticated worm that weaponized the npm install command itself. Instead of waiting for a package to be fully installed, the malware triggers immediately via a preinstall hook (`setup_bun.js`). This script downloads the Bun runtime to execute a heavily obfuscated payload (`bun_environment.js`) in memory.

Standard security tools scan files only after the installation finishes. Sha1-Hulud exploits this blind spot by executing during the download process—stealing secrets before a scan occurs. Once active, the worm operates autonomously: it harvests the victim's npm tokens, downloads every package they maintain, injects itself, bumps the version number, and republishes the poisoned versions—all in minutes. If the worm is unable to find credentials, it wipes the victim's home directory.

