# CVE Detail – CVE-2018-14732

An issue was discovered in lib/Server.js in webpack-dev-server before 3.1.6. Attackers are able to steal developer's code because the origin of requests is not checked by the WebSocket server, which is used for HMR (Hot Module Replacement). Anyone can receive the HMR message sent by the WebSocket server via a ws://127.0.0.1:8080/ connection from any origin.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## EPSS

EPSS Score: N/A

Percentile: 0.58948

## CVSS Scoring

CVSS v3.0 Score: 7.5

Severity: HIGH

## Mapped CWE(s)

* CWE-20: Improper Input Validation

## CAPEC(s)

* CAPEC-10: Buffer Overflow via Environment Variables
* CAPEC-101: Server Side Include (SSI) Injection
* CAPEC-104: Cross Zone Scripting
* CAPEC-108: Command Line Execution through SQL Injection
* CAPEC-109: Object Relational Mapping Injection
* CAPEC-110: SQL Injection through SOAP Parameter Tampering
* CAPEC-120: Double Encoding
* CAPEC-13: Subverting Environment Variable Values
* CAPEC-135: Format String Injection
* CAPEC-136: LDAP Injection
* CAPEC-14: Client-side Injection-induced Buffer Overflow
* CAPEC-153: Input Data Manipulation
* CAPEC-182: Flash Injection
* CAPEC-209: XSS Using MIME Type Mismatch
* CAPEC-22: Exploiting Trust in Client
* CAPEC-23: File Content Injection
* CAPEC-230: Serialized Data with Nested Payloads
* CAPEC-231: Oversized Serialized Data Payloads
* CAPEC-24: Filter Failure through Buffer Overflow
* CAPEC-250: XML Injection
* CAPEC-261: Fuzzing for garnering other adjacent user/sensitive data
* CAPEC-267: Leverage Alternate Encoding
* CAPEC-28: Fuzzing
* CAPEC-3: Using Leading 'Ghost' Character Sequences to Bypass Input Filters
* CAPEC-31: Accessing/Intercepting/Modifying HTTP Cookies
* CAPEC-42: MIME Conversion
* CAPEC-43: Exploiting Multiple Input Interpretation Layers
* CAPEC-45: Buffer Overflow via Symbolic Links
* CAPEC-46: Overflow Variables and Tags
* CAPEC-47: Buffer Overflow via Parameter Expansion
* CAPEC-473: Signature Spoof
* CAPEC-52: Embedding NULL Bytes
* CAPEC-53: Postfix, Null Terminate, and Backslash
* CAPEC-588: DOM-Based XSS
* CAPEC-63: Cross-Site Scripting (XSS)
* CAPEC-64: Using Slashes and URL Encoding Combined to Bypass Validation Logic
* CAPEC-664: Server Side Request Forgery
* CAPEC-67: String Format Overflow in syslog()
* CAPEC-7: Blind SQL Injection
* CAPEC-71: Using Unicode Encoding to Bypass Validation Logic
* CAPEC-72: URL Encoding
* CAPEC-73: User-Controlled Filename
* CAPEC-78: Using Escaped Slashes in Alternate Encoding
* CAPEC-79: Using Slashes in Alternate Encoding
* CAPEC-8: Buffer Overflow in an API Call
* CAPEC-80: Using UTF-8 Encoding to Bypass Validation Logic
* CAPEC-81: Web Server Logs Tampering
* CAPEC-83: XPath Injection
* CAPEC-85: AJAX Footprinting
* CAPEC-88: OS Command Injection
* CAPEC-9: Buffer Overflow in Local Command-Line Utilities

## ATT&CK Techniques

* T1574.007: Path Interception by PATH Environment Variable
* T1539: Steal Web Session Cookie
* T1553.002: Code Signing
* T1574.006: Dynamic Linker Hijacking
* T1562.003: Impair Command History Logging
* T1027: Obfuscated Files or Information
* T1036.001: Invalid Code Signature

## Used By (Actors/Tools)

* TrickBot (malware)
* EKANS (malware)
* BLINDINGCAN (malware)
* SynAck (malware)
* Bumblebee (malware)
* Amadey (malware)
* Orz (malware)
* NOKKI (malware)
* Stuxnet (malware)
* AvosLocker (malware)
* COATHANGER (malware)
* Sardonic (malware)
* WindTail (malware)
* Matryoshka (malware)
* StrongPity (malware)
* Janicab (malware)
* Ecipekac (malware)
* AppleSeed (malware)
* BUSHWALK (malware)
* NETWIRE (malware)
* OLDBAIT (malware)
* GreyEnergy (malware)
* TEARDROP (malware)
* Turian (malware)
* Action RAT (malware)
* Gootloader (malware)
* PolyglotDuke (malware)
* Hildegard (malware)
* SombRAT (malware)
* Snip3 (malware)
* RegDuke (malware)
* InvisiMole (malware)
* P.A.S. Webshell (malware)
* TRANSLATEXT (malware)
* Regin (malware)
* Line Dancer (malware)
* Conti (malware)
* Raspberry Robin (malware)
* Diavol (malware)
* Siloscape (malware)
* Kazuar (malware)
* CHIMNEYSWEEP (malware)
* FatDuke (malware)
* DRATzarus (malware)
* BOOSTWRITE (malware)
* SHOTPUT (malware)
* Avaddon (malware)
* Conficker (malware)
* Flagpro (malware)
* SpicyOmelette (malware)
* Green Lambert (malware)
* LockerGoga (malware)
* ISMInjector (malware)
* PUNCHBUGGY (malware)
* POSHSPY (malware)
* MiniDuke (malware)
* Anchor (malware)
* DarkTortilla (malware)
* ROKRAT (malware)
* CORESHELL (malware)
* PlugX (malware)
* Lumma Stealer (malware)
* DustySky (malware)
* Epic (malware)
* Cuba (malware)
* Clambling (malware)
* DarkGate (malware)
* SVCReady (malware)
* Carbanak (malware)
* XTunnel (malware)
* Hydraq (malware)
* Gazer (malware)
* Saint Bot (malware)
* Chaes (malware)
* Bundlore (malware)
* EVILNUM (malware)
* Metamorfo (malware)
* Spica (malware)
* Trojan.Karagany (malware)
* Bandook (malware)
* PipeMon (malware)
* Shamoon (malware)
* BLUELIGHT (malware)
* BPFDoor (malware)
* Black Basta (malware)
* ZeroCleare (malware)
* OopsIE (malware)
* StreamEx (malware)
* BoxCaon (malware)
* NightClub (malware)
* SDBbot (malware)
* RTM (malware)
* SodaMaster (malware)
* StrelaStealer (malware)
* Grandoreiro (malware)
* GoBear (malware)
* Drovorub (malware)
* Bazar (malware)
* Kobalos (malware)
* XLoader (malware)
* Ryuk (malware)
* HermeticWiper (malware)
* Final1stspy (malware)
* MgBot (malware)
* FinFisher (malware)
* Cobalt Strike (malware)
* SUNBURST (malware)
* Valak (malware)
* Samurai (malware)
* PoisonIvy (malware)
* NanoCore (malware)
* TajMahal (malware)
* Raccoon Stealer (malware)
* Daserf (malware)
* Carbon (malware)
* Pisloader (malware)
* Ramsay (malware)
* Pillowmint (malware)
* MacMa (malware)
* ROADSWEEP (malware)
* SUNSPOT (malware)
* More\_eggs (malware)
* SysUpdate (malware)
* BackConfig (malware)
* Nerex (malware)
* BoomBox (malware)
* PUNCHTRACK (malware)
* InnaputRAT (malware)
* GrimAgent (malware)
* Clop (malware)
* Lokibot (malware)
* PoetRAT (malware)
* CoinTicker (malware)
* Troll Stealer (malware)
* Ebury (malware)
* Maze (malware)
* ComRAT (malware)
* ChChes (malware)
* PowerStallion (malware)
* JPIN (malware)
* HTTPBrowser (malware)
* XCSSET (malware)
* KillDisk (malware)
* AppleJeus (malware)
* SoreFang (malware)
* Industroyer (malware)
* Agent Tesla (malware)
* ECCENTRICBANDWAGON (malware)
* BADNEWS (malware)
* ShadowPad (malware)
* QakBot (malware)
* CookieMiner (malware)
* Hancitor (malware)
* Gelsemium (malware)
* jRAT (malware)
* Helminth (malware)
* Dridex (malware)
* Denis (malware)
* Comnie (malware)
* H1N1 (malware)
* SLOWPULSE (malware)
* ADVSTORESHELL (malware)
* HiddenWasp (malware)
* Small Sieve (malware)
* HermeticWizard (malware)
* ShimRatReporter (tool)
* Sliver (tool)
* SILENTTRINITY (tool)
* PowerSploit (tool)
* Empire (tool)
* PcShare (tool)
* CSPY Downloader (tool)
* CARROTBALL (tool)
* Brute Ratel C4 (tool)
* Remcos (tool)
* Out1 (tool)
* Imminent Monitor (tool)
* MCMD (tool)
* QuasarRAT (tool)
* LuminousMoth (intrusion-set)
* Wizard Spider (intrusion-set)
* FIN7 (intrusion-set)
* APT41 DUST (campaign)
* ArcaneDoor (campaign)
* OilRig (intrusion-set)
* SolarWinds Compromise (campaign)
* Lazarus Group (intrusion-set)
* Aquatic Panda (intrusion-set)
* Daggerfly (intrusion-set)
* TA505 (intrusion-set)
* APT42 (intrusion-set)
* Earth Lusca (intrusion-set)
* Sandworm Team (intrusion-set)
* Suckfly (intrusion-set)
* FIN6 (intrusion-set)
* Silence (intrusion-set)
* Patchwork (intrusion-set)
* Darkhotel (intrusion-set)
* Ke3chang (intrusion-set)
* Operation Honeybee (campaign)
* 2016 Ukraine Electric Power Attack (campaign)
* APT38 (intrusion-set)
* BackdoorDiplomacy (intrusion-set)
* Kimsuky (intrusion-set)
* Leviathan (intrusion-set)
* Mustang Panda (intrusion-set)
* RedDelta Modified PlugX Infection Chain Operations (campaign)
* menuPass (intrusion-set)
* Moses Staff (intrusion-set)
* Operation Dream Job (campaign)
* Molerats (intrusion-set)
* APT37 (intrusion-set)
* APT41 (intrusion-set)
* GALLIUM (intrusion-set)
* C0015 (campaign)
* Winnti Group (intrusion-set)
* Rocke (intrusion-set)
* Saint Bear (intrusion-set)
* Scattered Spider (intrusion-set)
* RedCurl (intrusion-set)
* Windshift (intrusion-set)
* Gamaredon Group (intrusion-set)
* Sea Turtle (intrusion-set)
* Moonstone Sleet (intrusion-set)
* APT3 (intrusion-set)
* C0017 (campaign)
* Lotus Blossom (intrusion-set)
* Evilnum (intrusion-set)
* APT-C-36 (intrusion-set)
* Gallmaker (intrusion-set)
* CopyKittens (intrusion-set)
* Star Blizzard (intrusion-set)
* PROMETHIUM (intrusion-set)
* BlackOasis (intrusion-set)

## Affected Products

* cpe:2.3:a:webpack.js:webpack-dev-server:\*:\*:\*:\*:\*:\*:\*:\*