

CVE-2026-32146

Improper Path Validation in Git Dependency Handling Allows Arbitrary File System Modification

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Weakness Type (CWE)

[CWE-22 — CWE-22 Improper Limitation of a Pathname to a Restricted Directory \('Path Traversal'\)](#)

CAPEC

[CAPEC-139 — CAPEC-139 Relative Path Traversal](#)[CAPEC-597 — CAPEC-597 Absolute Path Traversal](#)

CVSS 4.0 Score

6.2

MEDIUM

[CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:N/VI:N/VA:N/SC:H/SI:H/SA:H](#)

Vulnerability description

Improper path validation vulnerability in the Gleam compiler's handling of git dependencies allows arbitrary file system modification during dependency download.

Dependency names from `gleam.toml` and `manifest.toml` are incorporated into filesystem paths without sufficient validation or confinement to the intended dependency directory, allowing attacker-controlled paths (via relative traversal such as `../` or absolute paths) to target filesystem locations outside that directory. When resolving git dependencies (e.g. via `gleam deps download`), the computed path is used for filesystem operations including directory deletion and creation.

This vulnerability occurs during the dependency resolution and download phase, which is generally expected to be limited to fetching and preparing dependencies within a confined directory. A malicious direct or transitive git dependency can exploit this issue to delete and overwrite arbitrary directories outside the intended dependency directory, including attacker-chosen absolute paths, potentially causing data loss. In some environments, this may be further leveraged to achieve code execution, for example by overwriting git hooks or shell configuration files.

This issue affects Gleam from 1.9.0-rc1 until 1.15.3 and 1.16.0-rc1.

Affected

pkg:sid/gleam.run/gleam

| Status | Type | Version | Changes / Fixed in |
|----------|--------------------------|-----------|--|
| Affected | semver i | 1.9.0-rc1 | <ul style="list-style-type: none"> unaffected at 1.15.3 unaffected at 1.16.0-rc1 |

[pkg:github/gleam-lang/gleam](#)

| Status | Type | Version | Changes / Fixed in |
|----------|--------------------------|-----------|--|
| Affected | semver i | 1.9.0-rc1 | <ul style="list-style-type: none"> unaffected at 1.15.3 unaffected at 1.16.0-rc1 |

| Status | Type | Version | Changes / Fixed in |
|----------|------------------|------------------------------|--|
| Affected | git ^① | a4fde22445ab | <ul style="list-style-type: none"> unaffected at 1aa5d8e594b0 unaffected at 55bb36e6d7fe |

Configurations

The project must use git-based dependencies (direct or transitive). Projects that exclusively use Hex dependencies are not affected.

Projects that exclusively use trusted or personally controlled git dependencies, or dependencies pinned to verified commit SHAs, are not exposed.

Workarounds

- Avoid using untrusted git dependencies, especially without pinning to a specific commit SHA
- Review dependency trees carefully, including transitive git dependencies
- Run dependency resolution commands in a restricted or isolated environment (e.g. containers)

References

- <https://github.com/gleam-lang/gleam/security/advisories/GHSA-vq5j-55vx-wq8j> vendor-advisory related
- <https://osv.dev/vulnerability/EEF-CVE-2026-32146> related
- <https://github.com/gleam-lang/gleam/commit/1aa5d8e594b0aa240bb213fce6ee19c65e6d5bcf> patch
- <https://github.com/gleam-lang/gleam/commit/55bb36e6d7febfbbc48c4d001e0ae13eb0312d78> patch

Credits

- **Remediation developer:** John Downey
- **Analyst:** Louis Pilfold
- **Coordinator:** Jonatan Männchen / EEF

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OSV record as JSON: [GET /osv/EEF-CVE-2026-32146.json](#)



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