

CVE-2026-39807

Client-supplied URI scheme trusted without transport verification in bandit

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Weakness Type (CWE)

[CWE-807 — CWE-807 Reliance on Untrusted Inputs in a Security Decision](#)

CAPEC

[CAPEC-220 — CAPEC-220 Client-Server Protocol Manipulation](#)

CVSS 4.0 Score

6.3

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

Vulnerability description

Reliance on Untrusted Inputs in a Security Decision vulnerability in mtrudel bandit allows unauthenticated transport-state spoofing on plaintext HTTP connections.

'Elixir.Bandit.Pipeline':determine_scheme/2 in lib/bandit/pipeline.ex returns the client-supplied URI scheme verbatim, ignoring the transport's secure? flag. HTTP/1.1 absolute-form request targets (e.g. GET https://victim/path HTTP/1.1) and the HTTP/2 :scheme pseudo-header are both attacker-controlled strings that flow through this function. Over a plaintext TCP connection, a client can declare https and Bandit will set conn.scheme = :https even though no TLS was negotiated.

Downstream Plug consumers that branch on conn.scheme are silently misled: Plug.SSL's already-secure branch skips its HTTP → HTTPS redirect, cookies emitted with secure: true are sent over plaintext, audit logs record requests as having arrived over HTTPS, and CSRF/SameSite gating may make incorrect decisions.

This issue affects bandit: from 1.0.0 before 1.11.0.

Affected

[pkg:hex/bandit](#)

Module	Source File	Routine	
Bandit.Pipeline	lib/bandit/pipeline.ex	Bandit.Pipeline.determine_scheme/2	
Status	Type	Version	Changes / Fixed in
Affected	semver 📄	1.0.0	< 1.11.0

[pkg:github/mtrudel/bandit](#)

Module	Source File	Routine	
Bandit.Pipeline	lib/bandit/pipeline.ex	Bandit.Pipeline.determine_scheme/2	
Status	Type	Version	Changes / Fixed in
Affected	git 📄	ff2f829326	< 1.11.0

Configurations

The vulnerable system must be accepting plaintext (non-TLS) HTTP connections, either directly or via h2c. Deployments that exclusively use TLS are not affected.

References

- <https://github.com/mtrudel/bandit/security/advisories/GHSA-375f-4r2h-f99j> vendor-advisory related
- <https://osv.dev/vulnerability/EEF-CVE-2026-39807> related
- <https://github.com/mtrudel/bandit/commit/45feea20dea8af7ffd7245271107b695c040e667> patch

Credits

- **Finder:** Peter Ullrich
- **Remediation developer:** Mat Trudel
- **Analyst:** Jonatan Männchen

CVE record as JSON: <GET /cves/CVE-2026-39807.json>

OSV record as JSON: <GET /osv/EEF-CVE-2026-39807.json>



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