

CVE-2025-4748

Absolute path traversal in zip:unzip/1,2

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Weakness Type (CWE)

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

CAPEC

[CAPEC-597 — CAPEC-597 Absolute Path Traversal](#)[CAPEC-165 — CAPEC-165 File Manipulation](#)

CVSS 4.0 Score

4.8

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

Vulnerability description

Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal') vulnerability in Erlang OTP (stdlib modules) allows Absolute Path Traversal, File Manipulation.

This vulnerability is associated with program files `lib/stdlib/src/zip.erl` and program routines `zip:unzip/1`, `zip:unzip/2`, `zip:extract/1`, `zip:extract/2` unless the `memory` option is passed.

This issue affects OTP from OTP 17.0 until OTP 28.0.1, OTP 27.3.4.1 and OTP 26.2.5.13, corresponding to stdlib from 2.0 until 7.0.1, 6.2.2.1 and 5.2.3.4.

Affected

pkg:otp/stdlib

Module	Source File	Routine
stdlib	<code>lib/stdlib/src/zip.erl</code>	zip:unzip/1 zip:unzip/2 zip:extract/1 zip:extract/2

Status	Type	Version	Changes / Fixed in
Affected	otp ⓘ	2.0	<ul style="list-style-type: none"> unaffected at 7.0.1 unaffected at 6.2.2.1 unaffected at 5.2.3.4

[pkg:github/erlang/otp](#)

Module	Source File	Routine
stdlib	lib/stdlib/src/zip.erl	zip:unzip/1 zip:unzip/2 zip:extract/1 zip:extract/2

Status	Type	Version	Changes / Fixed in
Affected	otp ^①	17.0	<ul style="list-style-type: none"> unaffected at 28.0.1 unaffected at 27.3.4.1 unaffected at 26.2.5.13
Affected	git ^①	07b8f441ca71	<ul style="list-style-type: none"> unaffected at d9454dbccbaa unaffected at 9b7b5431260e unaffected at 0ac548b57c04

Workarounds

You can use `zip:list_dir/1` on the archive and verify that no files contain absolute paths before extracting the archive to disk.

References

- <https://github.com/erlang/otp/security/advisories/GHSA-9g37-pgj9-wrhc> vendor-advisory related
- <https://cna.erlef.org/cves/CVE-2025-4748.html> related
- <https://osv.dev/vulnerability/EEF-CVE-2025-4748> related
- <https://github.com/erlang/otp/pull/9941> patch
- <https://github.com/erlang/otp/commit/5a55feec10c9b69189d56723d8f237afa58d5d4f> patch
- <https://github.com/erlang/otp/commit/ba2f2bc5f45fcd2d6201ba07990a678bbf4cc8f> patch
- <https://github.com/erlang/otp/commit/578d4001575aa7647ea1efd4b2b7e3afadcc99a5> patch

Credits

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- Remediation developer:** Lukas Backström
- Remediation reviewer:** Björn Gustavsson

CVE record as JSON: [GET /cves/CVE-2025-4748.json](https://cna.erlef.org/cves/CVE-2025-4748.json)

OSV record as JSON: [GET /osv/EEF-CVE-2025-4748.json](https://osv.dev/EEF-CVE-2025-4748.json)



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