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Path traversal in melange --persist-lint-results via unvalidated .PKGINFO fields

Moderate [antitree](#) published [GHSA-q2pw-xx38-p64j](#) 3 days ago

Package

[Go](#) [melange](#) (Go).

Affected versions

`>= 0.32.0, < 0.43.4`

Patched versions

`0.43.4`

Description

Impact

`melange lint --persist-lint-results` (opt-in flag, also usable via `melange build --persist-lint-results`) constructs output file paths by joining `--out-dir` with the `arch` and `pkgname` values read from the `.PKGINFO` control file of the APK being linted. In affected versions these values were not validated for path separators or `..` sequences, so an attacker who can supply an APK to a melange-based lint/build pipeline (e.g. CI that lints third-party APKs, or build-as-a-service) could cause melange to write `lint-<pkgname>-<pkgver>-r<epoch>.json` to an arbitrary `.json` path reachable by the melange process. The written file is a JSON lint report whose content is partially attacker-influenced. There is no direct code-execution path, but the write can clobber other JSON artifacts on the filesystem. The issue only affects deployments that explicitly pass `--persist-lint-results`; the flag is off by default.

Patches

Fixed in melange **v0.43.4** by validating `arch` and `pkgname` for `..`, `/`, and `filepath.Separator` before path construction in `pkg/linter/results.go` (commit [84f3b45](#)).

Workarounds

Do not pass `--persist-lint-results` when linting or building APKs whose `.PKGINFO` contents are not fully trusted. Running melange as a low-privileged user and confining writes to an isolated directory also limits impact.

References

- [84f3b45](#)

Credits

Thank you to Oleh Konko ([@1seal](#) from [1seal.org](#)) for discovering and reporting this issue.

Severity

Moderate 4.4 / 10

CVSS v3 base metrics

Attack vector	Local
Attack complexity	Low
Privileges required	None
User interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity	Low
Availability	Low

[Learn more about base metrics](#)

CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:L/A:L

CVE ID

CVE-2026-29051

Weaknesses

► CWE-22

Credits

 1seal

Reporter

 antitree

Analyst