

sqlalchemy / mako Public[Code](#) [Issues](#) 69 [Pull requests](#) 3 [Discussions](#) [Actions](#) [Projects](#)

# Path traversal via double-slash URI prefix in TemplateLookup

Moderate zzzEEK published **GHSA-v92g-xgxw-vvmm** last week

## Package

 **Mako** (pip)

### Affected versions

&lt;= 1.3.10

### Patched versions

1.3.11

## Description

### Summary

`TemplateLookup.get_template()` is vulnerable to path traversal when a URI starts with `//` (e.g., `//../../../../secret.txt`). The root cause is an inconsistency between two slash-stripping implementations:

- `Template.__init__` strips **one** leading `/` using `if/slice`
- `TemplateLookup.get_template()` strips **all** leading `/` using `re.sub(r"^\/+", "")`

When a URI like `//../../../../etc/passwd` is passed:

- `get_template()` strips all `/` → `../../../../etc/passwd` → file found via `posixpath.join(dir_, u)`
- `Template.__init__` strips one `/` → `../../../../etc/passwd` → `normpath` → `/etc/passwd`
- `/etc/passwd.startswith(..)` → `False` → **check bypassed**

### Impact

Arbitrary file read: any file readable by the process can be returned as rendered template content when an application passes untrusted input directly to `TemplateLookup.get_template()`.

Note: this is exploitable at the library API level. HTTP-based exploitation is mitigated by Python's `BaseHTTPRequestHandler` which normalizes double-slash prefixes since CPython gh-87389.

Applications using other HTTP servers that do not normalize paths may be affected.

## Fix

Changed `Template.__init__` to use `rstrip("/")` instead of stripping only a single leading slash, so both code paths handle leading slashes consistently.

## Severity

Moderate

## CVE ID

CVE-2026-41205

## Weaknesses

► CWE-22

## Credits



0xHunSec

Reporter