

jupyter / nbconvert Public[Code](#) [Issues](#) 561 [Pull requests](#) 23 [Actions](#) [Projects](#) [Security and qu](#)

# Arbitrary File Write via Path Traversal in Cell Attachment Filenames

Moderate minrk published [GHSA-4c99-qj7h-p3vg](#) 9 hours ago

## Package

 **nbconvert** (pip)

### Affected versions

`>= 6.5,<7.17.1`

### Patched versions

`7.17.1`

## Description

# Arbitrary File Write via Path Traversal in Cell Attachment Filenames

## Summary

nbconvert allows arbitrary file writes to locations outside the intended output directory when processing notebooks containing crafted cell attachment filenames. The `ExtractAttachmentsPreprocessor` passes attachment filenames directly to the filesystem without sanitization, enabling path traversal attacks. This vulnerability provides complete control over both the destination path and file extension.

## Impact

This vulnerability allows writing files with arbitrary content to arbitrary filesystem locations, limited only by the permissions of the process running nbconvert. The attacker controls:

- Full destination path (via `../` traversal)
- Filename
- File extension
- File content

## Patches

- upgrade to nbconvert v7.17.1

## Workarounds

disable ExtractAttachmentsPreprocessor by setting:

```
c. ExtractAttachmentsPreprocessor.enabled = False
```



### Severity

Moderate 6.5 / 10

#### CVSS v3 base metrics

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

[Learn more about base metrics](#)

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

### CVE ID

CVE-2026-39377

### Weaknesses

- ▶ CWE-22
- ▶ CWE-73

### Credits

 goblinResearch

Reporter