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# FITS GZIP decompression bomb in Pillow < 12.2.0

High aclark4life published GHSA-whj4-6x5x-4v2j 5 days ago

## Package

 pillow (pip)

### Affected versions

&gt;= 10.3.0, &lt; 12.2.0

### Patched versions

12.2.0

## Description

### Impact

Pillow did not limit the amount of GZIP-compressed data read when decoding a FITS image, making it vulnerable to decompression bomb attacks. A specially crafted FITS file could cause unbounded memory consumption, leading to denial of service (OOM crash or severe performance degradation).

### Patches

The amount of data read is now limited to the necessary amount.  
Fixed in Pillow 12.2.0 (PR [#9521](#)).

### Workarounds

Avoid Pillow >= 10.3.0, < 12.2.0  
Only open [specific image formats](#), excluding FITS.

### References

- [#9521](#)
- <https://pillow.readthedocs.io/en/stable/releasenotes/12.2.0.html#prevent-fits-decompression-bomb>

## Severity

High

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### CVE ID

CVE-2026-40192

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### Weaknesses

▶ CWE-400

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### Credits

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Reporter