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Unbounded rendezvous DISCOVER cookies enable remote memory exhaustion

High [jxs](#) published [GHSA-v5hw-cv9c-rpg7](#) 5 days ago

Package

 **libp2p-rendezvous** ([Rust](#))

Affected versions

< 0.17.1

Patched versions

0.17.1

Description

Summary

The rendezvous server stores pagination cookies without bounds. An unauthenticated peer can repeatedly issue `DISCOVER` requests and force unbounded memory growth.

Details

Pagination state is stored in:

```
HashMap<Cookie, HashSet<RegistrationId>>
```



On `Message::Discover` :

```
remote peer  
→ DISCOVER  
→ handle_request  
→ registrations.get(...)  
→ new cookie generated  
→ cookie inserted into Registrations::cookies
```



There is **no upper bound or eviction policy**, so repeated DISCOVER requests grow this map indefinitely.

PoC

A reproduction test and minimal harness will be provided in a private fork in a follow-up comment.

Impact

Remote state amplification leading to memory exhaustion.

Properties:

- etwork reachable
- no authentication required
- low attack complexity
- protocol-compliant traffic

Impacts rendezvous nodes exposed to untrusted peers.

Possible Fixes

1. Global cap + eviction

Bound cookie storage (`MAX_COOKIES_TRACKED`) with FIFO/expiry aware eviction.

Tradeoff: attacker can churn cookies and evict legitimate pagination state.

2. Stateless cookies

Encode pagination state in authenticated cookies instead of storing server-side state.

Tradeoff: more complex implementation.

3. Rate limiting / per-peer quotas

Limit cookie creation per peer.

Tradeoff: requires peer tracking.

Severity

High 8.2 / 10

CVSS v3 base metrics

Attack vector

Network

Attack complexity

Low

Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	None
Integrity	Low
Availability	High
Learn more about base metrics	

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


CVE ID

CVE-2026-35457

Weaknesses

No CWEs

Credits

 failuresmith

Reporter