

parse-community / parse-server Public[Code](#) [Issues](#) 370 [Pull requests](#) 105 [Actions](#) [Projects](#) [Wiki](#) [Security](#)

# Login timing side-channel reveals user existence

Moderate mtrezza published [GHSA-mmpq-5hcv-hf2v](#) 2 days ago

## Package

 **parse-server** ([npm](#))

### Affected versions

$\geq 9.0.0, < 9.8.0\text{-alpha.6}$

$< 8.6.74$

### Patched versions

9.8.0-alpha.6

8.6.74

## Description

### Impact

The login endpoint response time differs measurably depending on whether the submitted username or email exists in the database. When a user is not found, the server responds immediately. When a user exists but the password is wrong, a bcrypt comparison runs first, adding significant latency. This timing difference allows an unauthenticated attacker to enumerate valid usernames.

### Patches

A dummy bcrypt comparison is now performed when no user is found, normalizing response timing regardless of user existence. Additionally, accounts without a stored password (e.g. OAuth-only) now also run a dummy comparison to prevent the same timing oracle.

### Workarounds

Configure rate limiting on the login endpoint to slow automated enumeration. This reduces throughput but does not eliminate the timing signal for individual requests.

### References

- GitHub security advisory: [GHSA-mmpq-5hcv-hf2v](#)
- Fix Parse Server 9: [#10398](#)

- Fix Parse Server 8: [#10399](#)

### Severity

Moderate 6.3 / 10

#### CVSS v4 base metrics

##### Exploitability Metrics

Attack Vector	Network
Attack Complexity	High
Attack Requirements	Present
Privileges Required	None
User interaction	None

##### Vulnerable System Impact Metrics

Confidentiality	Low
Integrity	None
Availability	None

##### Subsequent System Impact Metrics

Confidentiality	None
Integrity	None
Availability	None

[Learn more about base metrics](#)

CVSS:4.0/AV:N/AC:H/AT:P/PR:N/UI:N/VC:L/VI:NVA:N/SC:N/SI:N/SA:N

### CVE ID

CVE-2026-39321

### Weaknesses

- ▶ CWE-208

### Credits

 offset

Reporter

 mtrezza

Coordinator