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<> Code Issues 35 Pull requests 11 Actions Projects Models Security

Cache middleware default key generator ignores query string, causing response mix-up across distinct query parameters

Moderate ReneWerner87 published GHSA-35hp-hqmv-8qg8 last week

Package

github.com/gofiber/fiber/v3 (Go)

Affected versions

<=3.1.0

Patched versions

>3.1.0

Description

Summary

Fiber cache middleware's default key generator uses only `c.Path()` and does not include the query string.

As a result, requests like `/?id=1` and `/?id=2` can map to the same cache key and share the same cached response.

This can cause response mix-up (cache poisoning-like behavior) for endpoints where response content depends on query parameters.

Details

Default configuration in cache middleware:

- `KeyGenerator: func(c fiber.Ctx) string { return utils.CopyString(c.Path()) }`

References:

- <https://github.com/gofiber/fiber/blob/main/middleware/cache/config.go#L90-L92>
- https://github.com/gofiber/fiber/blob/main/middleware/cache/cache_test.go#L599-L621

The existing test demonstrates that when handler output depends on query parameter `id`, a second request with a different query still returns the first cached response (cache hit), confirming query is not part of the default cache key.

PoC

Minimal PoC:

```
package main

import (
    "log"

    "github.com/gofiber/fiber/v3"
    "github.com/gofiber/fiber/v3/middleware/cache"
)

func main() {
    app := fiber.New()
    app.Use(cache.New()) // default config

    app.Get("/", func(c fiber.Ctx) error {
        return c.SendString(c.Query("id", "1"))
    })

    log.Fatal(app.Listen(":3000"))
}
```

Reproduction:

1. `GET /?id=1`
 - Cache miss
 - Response body: `1`
2. `GET /?id=2`
 - Cache hit
 - Response body: `1` (expected `2`)

Local verification command used:

```
go test ./middleware/cache -run Test_Cache_WithNoCacheRequestDirective -count=1
```

Observed result: test passes, confirming this is current behavior.

Impact

- Responses that should vary by query parameters can be mixed between requests.

- In real deployments, this may leak or corrupt user/tenant-specific content if query parameters influence context or data selection.
- This is deployment-dependent but security-relevant, and not safe-by-default for query-variant responses.

Suggested remediation

- Change default cache key generation to include path + normalized query string (or canonicalized original URL).
- Keep ability for custom key generators.
- Add explicit documentation warning that path-only keying is unsafe for query-dependent responses.

Severity

Moderate 6.5 / 10

CVSS v3 base metrics

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

[Learn more about base metrics](#)

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

CVE ID

CVE-2026-30246

Weaknesses

- ▶ CWE-200
- ▶ CWE-524

Credits

 xeloxa

Reporter

 gaby

Remediation developer



ReneWerner87

Remediation reviewer