

go-kratos / kratos Public[Code](#) [Issues](#) 4 [Pull requests](#) 64 [Discussions](#) [Actions](#) [Projects](#)

fix: replace http.DefaultServeMux fallback with safe defaults #3814

Yanhu007 wants to merge 1 commit into `go-kratos:main` from`Yanhu007:fix/remove-default-serve...` 

Conversation

Commits 1

Checks



Files changed

Yanhu007 commented [2 weeks ago](#)Fixes [#3810](#)

Security Issue

The HTTP server sets `http.DefaultServeMux` as the fallback handler for unmatched routes and disallowed methods. Since `DefaultServeMux` is a global shared instance, packages that register handlers in `init()` (most notably `net/http/pprof`) are inadvertently exposed to the network.

Any request to an unregistered route (e.g. `/debug/pprof/`) falls through to `DefaultServeMux`, potentially exposing profiling data, goroutine dumps, and heap profiles.

Fix

Replace with safe defaults:

- `http.NotFoundHandler()` for `NotFoundHandler` (returns 404)
- A simple 405 handler for `MethodNotAllowedHandler`

Users who need the previous behavior can explicitly opt-in using the existing `NotFoundHandler()` and `MethodNotAllowedHandler()` server options added in [#3131](#).

Breaking Change

This is technically a breaking change for anyone relying on the `DefaultServeMux` fallback behavior, but the previous default was a security risk. The `NotFoundHandler()` and `MethodNotAllowedHandler()` options provide a migration path.

  [fix: replace http.DefaultServeMux fallback handlers with safe defaults](#)   [0284a5b](#)

  **dosubot** Bot added the size:XS label [2 weeks ago](#)

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No one assigned

Labels

size:XS

Projects


None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

 [Unintended Route Exposure via DefaultServeMux Fallback](#)

1 participant

