

# Gin ChangeLog

## Gin v1.7.7

### BUGFIXES

- Fixed X-Forwarded-For unsafe handling of CVE-2020-28483 [#2844](#), closed issue [#2862](#).
- Tree: updated the code logic for `latestNode` [#2897](#), closed issue [#2894](#) [#2878](#).
- Tree: fixed the misplacement of adding slashes [#2847](#), closed issue [#2843](#).
- Tree: fixed tsr with mixed static and wildcard paths [#2924](#), closed issue [#2918](#).

### ENHANCEMENTS

- TrustedProxies: make it backward-compatible [#2887](#), closed issue [#2819](#).
- TrustedPlatform: provide custom options for another CDN services [#2906](#).

### DOCS

- NoMethod: added usage annotation ([#2832](#)).

## Gin v1.7.6

### BUGFIXES

- bump new release to fix v1.7.5 release error by using v1.7.4 codes.

## Gin v1.7.4

### BUGFIXES

- bump new release to fix checksum mismatch

## Gin v1.7.3

### BUGFIXES

- fix level 1 router match [#2767](#), [#2796](#)

## Gin v1.7.2

### BUGFIXES

- Fix conflict between param and exact path [#2706](#). Close issue [#2682](#) [#2696](#).

## Gin v1.7.1

### BUGFIXES

- fix: data race with trustedCIDRs from [#2674](#)([#2675](#))

## Gin v1.7.0

### BUGFIXES

- fix compile error from [#2572](#) ([#2600](#))
- fix: print headers without Authorization header on broken pipe ([#2528](#))
- fix(tree): reassign fullpath when register new node ([#2366](#))

## ENHANCEMENTS

- Support params and exact routes without creating conflicts ([#2663](#))
- chore: improve render string performance ([#2365](#))
- Sync route tree to httprouter latest code ([#2368](#))
- chore: rename getQueryCache/getFormCache to initQueryCache/initFormCa ([#2375](#))
- chore(performance): improve countParams ([#2378](#))
- Remove some functions that have the same effect as the bytes package ([#2387](#))
- update:SetMode function ([#2321](#))
- remove a unused type SecureJSONPrefix ([#2391](#))
- Add a redirect sample for POST method ([#2389](#))
- Add CustomRecovery builtin middleware ([#2322](#))
- binding: avoid 2038 problem on 32-bit architectures ([#2450](#))
- Prevent panic in Context.GetQuery() when there is no Request ([#2412](#))
- Add GetUint and GetUint64 method on gin.context ([#2487](#))
- update content-disposition header to MIME-style ([#2512](#))
- reduce allocs and improve the render `WriteString` ([#2508](#))
- implement ".Unwrap() error" on Error type ([#2525](#)) ([#2526](#))
- Allow bind with a map[string]string ([#2484](#))
- chore: update tree ([#2371](#))
- Support binding for slice/array obj [Rewrite] ([#2302](#))
- basic auth: fix timing oracle ([#2609](#))
- Add mixed param and non-param paths (port of httprouter [#329](#)) ([#2663](#))
- feat(engine): add trustedproxies and remotelP ([#2632](#))

## Gin v1.6.3

### ENHANCEMENTS

- Improve performance: Change `*sync.RWMutex` to `sync.RWMutex` in context. [#2351](#)

## Gin v1.6.2

### BUGFIXES

- fix missing initial sync.RWMutex [#2305](#)

### ENHANCEMENTS

- Add set samesite in cookie. [#2306](#)

## Gin v1.6.1

### BUGFIXES

- Revert "fix accept incoming network connections" [#2294](#)

## Gin v1.6.0

### BREAKING

- chore(performance): Improve performance for adding RemoveExtraSlash flag [#2159](#)
- drop support govendor [#2148](#)
- Added support for SameSite cookie flag [#1615](#)

## FEATURES

- add yaml negotiation [#2220](#)
- FileFromFS [#2112](#)

## BUGFIXES

- Unix Socket Handling [#2280](#)
- Use json marshal in context json to fix breaking new line issue. Fixes #2209 [#2228](#)
- fix accept incoming network connections [#2216](#)
- Fixed a bug in the calculation of the maximum number of parameters [#2166](#)
- [FIX] allow empty headers on DataFromReader [#2121](#)
- Add mutex for protect Context.Keys map [#1391](#)

## ENHANCEMENTS

- Add mitigation for log injection [#2277](#)
- tree: range over nodes values [#2229](#)
- tree: remove duplicate assignment [#2222](#)
- chore: upgrade go-isatty and json-iterator/go [#2215](#)
- path: sync code with httprouter [#2212](#)
- Use zero-copy approach to convert types between string and byte slice [#2206](#)
- Reuse bytes when cleaning the URL paths [#2179](#)
- tree: remove one else statement [#2177](#)
- tree: sync httprouter update (#2173) (#2172) [#2171](#)
- tree: sync part httprouter codes and reduce if/else [#2163](#)
- use http method constant [#2155](#)
- upgrade go-validator to v10 [#2149](#)
- Refactor redirect request in gin.go [#1970](#)
- Add build tag nomsgpack [#1852](#)

## DOCS

- docs(path): improve comments [#2223](#)
- Renew README to fit the modification of SetCookie method [#2217](#)
- Fix spelling [#2202](#)
- Remove broken link from README. [#2198](#)
- Update docs on Context.Done(), Context.Deadline() and Context.Err() [#2196](#)
- Update validator to v10 [#2190](#)
- upgrade go-validator to v10 for README [#2189](#)
- Update to currently output [#2188](#)
- Fix "Custom Validators" example [#2186](#)
- Add project to README [#2165](#)
- docs(benchmarks): for gin v1.5 [#2153](#)
- Changed wording for clarity in README.md [#2122](#)

## MISC

- ci support go1.14 [#2262](#)
- chore: upgrade depend version [#2231](#)
- Drop support go1.10 [#2147](#)
- fix comment in `mode.go` [#2129](#)

## Gin v1.5.0

- [FIX] Use DefaultWriter and DefaultErrorWriter for debug messages [#1891](#)
- [NEW] Now you can parse the inline lowercase start structure [#1893](#)
- [FIX] Some code improvements [#1909](#)
- [FIX] Use encode replace json marshal increase json encoder speed [#1546](#)
- [NEW] Hold matched route full path in the Context [#1826](#)
- [FIX] Fix context.Params race condition on Copy() [#1841](#)
- [NEW] Add context param query cache [#1450](#)
- [FIX] Improve GetQueryMap performance [#1918](#)
- [FIX] Improve get post data [#1920](#)
- [FIX] Use context instead of x/net/context [#1922](#)
- [FIX] Attempt to fix PostForm cache bug [#1931](#)
- [NEW] Add support of multipart multi files [#1949](#)
- [NEW] Support bind http header param [#1957](#)
- [FIX] Drop support for go1.8 and go1.9 [#1933](#)
- [FIX] Bugfix for the FullPath feature [#1919](#)
- [FIX] Gin1.5 bytes.Buffer to strings.Builder [#1939](#)
- [FIX] Upgrade github.com/ugorji/go/codec [#1969](#)
- [NEW] Support bind unix time [#1980](#)
- [FIX] Simplify code [#2004](#)
- [NEW] Support negative Content-Length in DataFromReader [#1981](#)
- [FIX] Identify terminal on a RISC-V architecture for auto-colored logs [#2019](#)
- [BREAKING] `Context.JSONP()` now expects a semicolon ( ; ) at the end [#2007](#)
- [BREAKING] Upgrade default `binding.Validator` to v9 (see [its changelog](#)) [#1015](#)
- [NEW] Add `DisallowUnknownFields()` in `Context.BindJSON()` [#2028](#)
- [NEW] Use specific `net.Listener` with `Engine.RunListener()` [#2023](#)
- [FIX] Fix some typo [#2079](#) [#2080](#)
- [FIX] Relocate binding body tests [#2086](#)
- [FIX] Use Writer in Context.Status [#1606](#)
- [FIX] `Engine.RunUnix()` now returns the error if it can't change the file mode [#2093](#)
- [FIX] `RouterGroup.StaticFS()` leaked files. Now it closes them. [#2118](#)
- [FIX] `Context.Request.FormFile` leaked file. Now it closes it. [#2114](#)
- [FIX] Ignore walking on `form:"-"` mapping [#1943](#)

## Gin v1.4.0

- [NEW] Support for [Go Modules](#) [#1569](#)
- [NEW] Refactor of form mapping multipart request [#1829](#)
- [FIX] Truncate Latency precision in long running request [#1830](#)
- [FIX] IsTerm flag should not be affected by DisableConsoleColor method. [#1802](#)
- [NEW] Supporting file binding [#1264](#)
- [NEW] Add support for mapping arrays [#1797](#)
- [FIX] Readme updates [#1793](#) [#1788](#) [1789](#)
- [FIX] StaticFS: Fixed Logging two log lines on 404. [#1805](#) [#1804](#)
- [NEW] Make context.Keys available as LogFormatterParams [#1779](#)
- [NEW] Use internal/json for Marshal/Unmarshal [#1791](#)
- [NEW] Support mapping time.Duration [#1794](#)
- [NEW] Refactor form mappings [#1749](#)
- [NEW] Added flag to context.Stream indicates if client disconnected in middle of stream [#1252](#)
- [FIX] Moved [examples](#) to stand alone Repo [#1775](#)
- [NEW] Extend context.File to allow for the content-disposition attachments via a new method `context.Attachment` [#1260](#)

- [FIX] Support HTTP content negotiation wildcards [#1112](#)
- [NEW] Add prefix from X-Forwarded-Prefix in redirectTrailingSlash [#1238](#)
- [FIX] context.Copy() race condition [#1020](#)
- [NEW] Add context.HandlerNames() [#1729](#)
- [FIX] Change color methods to public in the defaultLogger. [#1771](#)
- [FIX] Update writeHeaders method to use http.Header.Set [#1722](#)
- [NEW] Add response size to LogFormatterParams [#1752](#)
- [NEW] Allow ignoring field on form mapping [#1733](#)
- [NEW] Add a function to force color in console output. [#1724](#)
- [FIX] Context.Next() - recheck len of handlers on every iteration. [#1745](#)
- [FIX] Fix all errcheck warnings [#1739](#) [#1653](#)
- [NEW] context: inherits context cancellation and deadline from http.Request context for Go >= 1.7 [#1690](#)
- [NEW] Binding for URL Params [#1694](#)
- [NEW] Add LoggerWithFormatter method [#1677](#)
- [FIX] CI testing updates [#1671](#) [#1670](#) [#1682](#) [#1669](#)
- [FIX] StaticFS(): Send 404 when path does not exist [#1663](#)
- [FIX] Handle nil body for JSON binding [#1638](#)
- [FIX] Support bind uri param [#1612](#)
- [FIX] recovery: fix issue with syscall import on google app engine [#1640](#)
- [FIX] Make sure the debug log contains line breaks [#1650](#)
- [FIX] Panic stack trace being printed during recovery of broken pipe [#1089](#) [#1259](#)
- [NEW] RunFd method to run http.Server through a file descriptor [#1609](#)
- [NEW] Yaml binding support [#1618](#)
- [FIX] Pass MaxMultipartMemory when FormFile is called [#1600](#)
- [FIX] LoadHTML\* tests [#1559](#)
- [FIX] Removed use of sync.pool from HandleContext [#1565](#)
- [FIX] Format output log to os.Stderr [#1571](#)
- [FIX] Make logger use a yellow background and a darkgray text for legibility [#1570](#)
- [FIX] Remove sensitive request information from panic log. [#1370](#)
- [FIX] log.Println() does not print timestamp [#829](#) [#1560](#)
- [NEW] Add PureJSON renderer [#694](#)
- [FIX] Add missing copyright and update if/else [#1497](#)
- [FIX] Update msgpack usage [#1498](#)
- [FIX] Use protobuf on render [#1496](#)
- [FIX] Add support for Protobuf format response [#1479](#)
- [NEW] Set default time format in form binding [#1487](#)
- [FIX] Add BindXML and ShouldBindXML [#1485](#)
- [NEW] Upgrade dependency libraries [#1491](#)

## Gin v1.3.0

- [NEW] Add `func (*Context) QueryMap`, `func (*Context) GetQueryMap`, `func (*Context) PostFormMap` and `func (*Context) GetPostFormMap` to support `type map[string]string` as query string or form parameters, see [#1383](#)
- [NEW] Add `func (*Context) AsciiJSON`, see [#1358](#)
- [NEW] Add `Pusher()` in `type ResponseWriter` for supporting http2 push, see [#1273](#)
- [NEW] Add `func (*Context) DataFromReader` for serving dynamic data, see [#1304](#)
- [NEW] Add `func (*Context) ShouldBindBodyWith` allowing to call binding multiple times, see [#1341](#)
- [NEW] Support pointers in form binding, see [#1336](#)

- [NEW] Add [func \(\\*Context\) JSONP](#) , see [#1333](#)
- [NEW] Support default value in form binding, see [#1138](#)
- [NEW] Expose validator engine in [type StructValidator](#) , see [#1277](#)
- [NEW] Add [func \(\\*Context\) ShouldBind](#) , [func \(\\*Context\) ShouldBindQuery](#) and [func \(\\*Context\) ShouldBindJSON](#) , see [#1047](#)
- [NEW] Add support for `time.Time` location in form binding, see [#1117](#)
- [NEW] Add [func \(\\*Context\) BindQuery](#) , see [#1029](#)
- [NEW] Make [jsonite](#) optional with build tags, see [#1026](#)
- [NEW] Show query string in logger, see [#999](#)
- [NEW] Add [func \(\\*Context\) SecureJSON](#) , see [#987](#) and [#993](#)
- [DEPRECATE] `func (*Context) GetCookie` for [func \(\\*Context\) Cookie](#)
- [FIX] Don't display color tags if [func DisableConsoleColor](#) called, see [#1072](#)
- [FIX] Gin Mode `"` when calling [func Mode](#) now returns `const DebugMode` , see [#1250](#)
- [FIX] `Flush()` now doesn't overwrite `responseWriter` status code, see [#1460](#)

## Gin 1.2.0

- [NEW] Switch from godeps to govendor
- [NEW] Add support for Let's Encrypt via gin-gonic/autotls
- [NEW] Improve README examples and add extra at examples folder
- [NEW] Improved support with App Engine
- [NEW] Add custom template delimiters, see [#860](#)
- [NEW] Add Template Func Maps, see [#962](#)
- [NEW] Add `*context.Handler()`, see [#928](#)
- [NEW] Add `*context.GetRawData()`
- [NEW] Add `*context.GetHeader()` (request)
- [NEW] Add `*context.AbortWithStatusJSON()` (JSON content type)
- [NEW] Add `*context.Keys` type cast helpers
- [NEW] Add `*context.ShouldBindWith()`
- [NEW] Add `*context.MustBindWith()`
- [NEW] Add `*engine.SetFuncMap()`
- [DEPRECATE] On next release: `*context.BindWith()`, see [#855](#)
- [FIX] Refactor render
- [FIX] Reworked tests
- [FIX] logger now supports cygwin
- [FIX] Use X-Forwarded-For before X-Real-Ip
- [FIX] `time.Time` binding ([#904](#))

## Gin 1.1.4

- [NEW] Support google appengine for `IsTerminal` func

## Gin 1.1.3

- [FIX] Reverted Logger: skip ANSI color commands

## Gin 1.1

- [NEW] Implement `QueryArray` and `PostArray` methods
- [NEW] Refactor `GetQuery` and `GetPostForm`
- [NEW] Add contribution guide

- [FIX] Corrected typos in README
- [FIX] Removed additional Iota
- [FIX] Changed imports to gopkg instead of github in README (#733)
- [FIX] Logger: skip ANSI color commands if output is not a tty

## Gin 1.0rc2 (...)

- [PERFORMANCE] Fast path for writing Content-Type.
- [PERFORMANCE] Much faster 404 routing
- [PERFORMANCE] Allocation optimizations
- [PERFORMANCE] Faster root tree lookup
- [PERFORMANCE] Zero overhead, String() and JSON() rendering.
- [PERFORMANCE] Faster ClientIP parsing
- [PERFORMANCE] Much faster SSE implementation
- [NEW] Benchmarks suite
- [NEW] Bind validation can be disabled and replaced with custom validators.
- [NEW] More flexible HTML render
- [NEW] Multipart and PostForm bindings
- [NEW] Adds method to return all the registered routes
- [NEW] Context.HandlerName() returns the main handler's name
- [NEW] Adds Error.IsType() helper
- [FIX] Binding multipart form
- [FIX] Integration tests
- [FIX] Crash when binding non struct object in Context.
- [FIX] RunTLS() implementation
- [FIX] Logger() unit tests
- [FIX] Adds SetHTMLTemplate() warning
- [FIX] Context.IsAborted()
- [FIX] More unit tests
- [FIX] JSON, XML, HTML renders accept custom content-types
- [FIX] gin.AbortIndex is unexported
- [FIX] Better approach to avoid directory listing in StaticFS()
- [FIX] Context.ClientIP() always returns the IP with trimmed spaces.
- [FIX] Better warning when running in debug mode.
- [FIX] Google App Engine integration. debugPrint does not use os.Stdout
- [FIX] Fixes integer overflow in error type
- [FIX] Error implements the json.Marshaller interface
- [FIX] MIT license in every file

## Gin 1.0rc1 (May 22, 2015)

- [PERFORMANCE] Zero allocation router
- [PERFORMANCE] Faster JSON, XML and text rendering
- [PERFORMANCE] Custom hand optimized HttpRouter for Gin
- [PERFORMANCE] Misc code optimizations. Inlining, tail call optimizations
- [NEW] Built-in support for [golang.org/x/net/context](http://golang.org/x/net/context)
- [NEW] Any(path, handler). Create a route that matches any path
- [NEW] Refactored rendering pipeline (faster and static typed)
- [NEW] Refactored errors API
- [NEW] IndentedJSON() prints pretty JSON
- [NEW] Added gin.DefaultWriter

- [NEW] UNIX socket support
- [NEW] RouterGroup.BasePath is exposed
- [NEW] JSON validation using go-validate-yourself (very powerful options)
- [NEW] Completed suite of unit tests
- [NEW] HTTP streaming with c.Stream()
- [NEW] StaticFile() creates a router for serving just one file.
- [NEW] StaticFS() has an option to disable directory listing.
- [NEW] StaticFS() for serving static files through virtual filesystems
- [NEW] Server-Sent Events native support
- [NEW] WrapF() and WrapH() helpers for wrapping http.HandlerFunc and http.Handler
- [NEW] Added LoggerWithWriter() middleware
- [NEW] Added RecoveryWithWriter() middleware
- [NEW] Added DefaultPostFormValue()
- [NEW] Added DefaultFormValue()
- [NEW] Added DefaultParamValue()
- [FIX] BasicAuth() when using custom realm
- [FIX] Bug when serving static files in nested routing group
- [FIX] Redirect using built-in http.Redirect()
- [FIX] Logger when printing the requested path
- [FIX] Documentation typos
- [FIX] Context.Engine renamed to Context.engine
- [FIX] Better debugging messages
- [FIX] ErrorLogger
- [FIX] Debug HTTP render
- [FIX] Refactored binding and render modules
- [FIX] Refactored Context initialization
- [FIX] Refactored BasicAuth()
- [FIX] NoMethod/NoRoute handlers
- [FIX] Hijacking http
- [FIX] Better support for Google App Engine (using log instead of fmt)

## **Gin 0.6 (Mar 9, 2015)**

- [NEW] Support multipart/form-data
- [NEW] NoMethod handler
- [NEW] Validate sub structures
- [NEW] Support for HTTP Realm Auth
- [FIX] Unsigned integers in binding
- [FIX] Improve color logger

## **Gin 0.5 (Feb 7, 2015)**

- [NEW] Content Negotiation
- [FIX] Solved security bug that allow a client to spoof ip
- [FIX] Fix unexported/ignored fields in binding

## **Gin 0.4 (Aug 21, 2014)**

- [NEW] Development mode
- [NEW] Unit tests
- [NEW] Add Content.Redirect()
- [FIX] Deferring WriteHeader()



- [FIX] Improved documentation for model binding

## Gin 0.3 (Jul 18, 2014)

- [PERFORMANCE] Normal log and error log are printed in the same call.
- [PERFORMANCE] Improve performance of NoRouter()
- [PERFORMANCE] Improve context's memory locality, reduce CPU cache faults.
- [NEW] Flexible rendering API
- [NEW] Add Context.File()
- [NEW] Add shortcut RunTLS() for http.ListenAndServeTLS
- [FIX] Rename NotFound404() to NoRoute()
- [FIX] Errors in context are purged
- [FIX] Adds HEAD method in Static file serving
- [FIX] Refactors Static() file serving
- [FIX] Using keyed initialization to fix app-engine integration
- [FIX] Can't unmarshal JSON array, #63
- [FIX] Renaming Context.Req to Context.Request
- [FIX] Check application/x-www-form-urlencoded when parsing form

## Gin 0.2b (Jul 08, 2014)

- [PERFORMANCE] Using sync.Pool to allocatio/gc overhead
- [NEW] Travis CI integration
- [NEW] Completely new logger
- [NEW] New API for serving static files. gin.Static()
- [NEW] gin.H() can be serialized into XML
- [NEW] Typed errors. Errors can be typed. Internet/external/custom.
- [NEW] Support for Godeps
- [NEW] Travis/Godocs badges in README
- [NEW] New Bind() and BindWith() methods for parsing request body.
- [NEW] Add Content.Copy()
- [NEW] Add context.LastError()
- [NEW] Add shortcut for OPTIONS HTTP method
- [FIX] Tons of README fixes
- [FIX] Header is written before body
- [FIX] BasicAuth() and changes API a little bit
- [FIX] Recovery() middleware only prints panics
- [FIX] Context.Get() does not panic anymore. Use MustGet() instead.
- [FIX] Multiple http.WriteHeader() in NotFound handlers
- [FIX] Engine.Run() panics if http server can't be set up
- [FIX] Crash when route path doesn't start with '/'
- [FIX] Do not update header when status code is negative
- [FIX] Setting response headers before calling WriteHeader in context.String()
- [FIX] Add MIT license
- [FIX] Changes behaviour of ErrorLogger() and Logger()