golangci-lint Go linters runner

Packages ./... → load → **Linters** default + enable → report → **Filters** exclusions, nolint, new-from → print → **Output** text, json, sarif...

CONCEPTS

One binary runs many linters in parallel over a shared parse, with a cache. Exit code 1 means issues were found.

Coming from v1? Config needs version: "2", exclude rules moved to linters.exclusions, formatters (gofmt, goimports) have their own section. Run golangci-lint migrate.

INSTALL AND INFO

**`curl -sSfL https://golangci-lint.run/install.sh | sh -s -- -b $(go env GOPATH)/bin v`*`<version>`*
Install a pinned release binary

`golangci-lint --version`
Show version and Go it was built with

`golangci-lint help linters`
Describe every available linter

RUN

`golangci-lint run`
Lint all packages below here

`golangci-lint run` *`<dir>`*`/...`
Lint one subtree

`golangci-lint run --fix`
Apply fixes linters can make

`golangci-lint run --timeout 5m`
Abort after a time limit

`golangci-lint run --tests=false`
Skip *_test.go files

`golangci-lint run --build-tags` *`<tag>`*
Lint with build tags set

`golangci-lint run -c` *`<file>`*
Use a specific config file

`golangci-lint run -v`
Show config used, linters and timings

`golangci-lint cache clean`
Clear the analysis cache

PICK LINTERS

`golangci-lint linters`
List enabled and disabled linters

PICK LINTERS (cont.)

`golangci-lint run -E` *`<linter>`*`,`*`<linter>`*
Enable extra linters

`golangci-lint run -D` *`<linter>`*
Disable a linter

`golangci-lint run --enable-only` *`<linter>`*
Run just this linter

`golangci-lint run --default all`
Start from every linter

`golangci-lint run --default none -E` *`<linter>`*
Start empty, add only these

`golangci-lint run --fast-only`
Keep only fast linters

The standard set (default)

Linter	Catches
`errcheck`	unchecked errors
`govet`	go vet checks
`staticcheck`	bugs, simplifications, style
`unused`	unused code
`ineffassign`	assignments never read

ONLY NEW ISSUES

`golangci-lint run --new-from-rev` *`<rev>`*
Issues introduced since a commit

ONLY NEW ISSUES (cont.)

`golangci-lint run --new-from-merge-base main`
Issues since the branch left main

`golangci-lint run -n`
Issues in uncommitted changes

OUTPUT

`golangci-lint run --output.json.path stdout`
Machine-readable JSON

`golangci-lint run --max-issues-per-linter 0 --max-same-issues 0`
Show every issue, no caps

FORMAT

`golangci-lint fmt`
Format files with enabled formatters

`golangci-lint fmt -d`
Show diff, change nothing

`golangci-lint fmt -E goimports`
Format with a given formatter

`golangci-lint formatters`
List enabled formatters

CONFIG FILE

.golangci.yml

```
version: "2"
linters:
  default: standard
  enable: [gosec, revive,
misspell]
  disable: [errcheck]
  settings:
    misspell:
      locale: US
  exclusions:
    generated: lax
    presets: [std-error-
handling]
    paths: [third_party/]
    rules:
      - path: _test\.go
        linters: [gosec]
formatters:
  enable: [gofumpt,
goimports]
run:
  timeout: 5m
```

`golangci-lint config verify`
Validate config against the schema

`golangci-lint migrate`
Convert a v1 config to v2

SUPPRESS

`//nolint:`*`<linter>`*
Silence a linter on this line

`//nolint:`*`<linter>`* **`//`** *`<why>`*
Silence with a reason