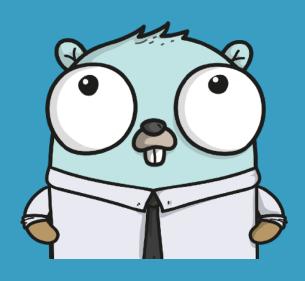
Going secure on GitHub at ironPeak services



1. \$ whoami



Niels Hofmans

role Independent Cybersecurity Consultant

work Code, App & System Security

interest Go, Docker, Cloud, Media

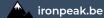
contact hello@ironpeak.be

github github.com/hazcod

* not affiliated with GitHub

2. \$ why go

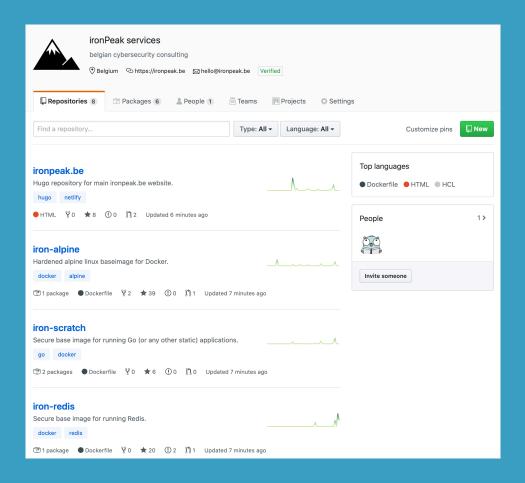
- Simple
- Statically typed
- Modern
- Performant
- Batteries included



4. \$ dev requirements

Cybersecurity Startup

- Open Source
- Repository
 - GitHub Enterprise (\$9/user)
 - Private repositories
 - Package registry
 - Github Action CI/CD
 - SSO with google suite
- Infrastructure
 - laaC
 - Container microservices
 - zero trust



4 - dev requirements ironpeak.be

5. \$ repo

Org Config

- Require 2FA + SSO
- Groups authz
- Local actions + github.com/wei/pull

Repo config

- Protect master branch: PR, Status
- One-way Secrets

App Integrations

- dependabot (free)
- whitesource bolt (free)

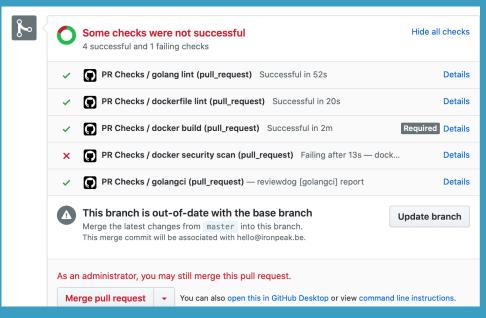


5. \$ repo

Action configuration

- github.com/9sako6/imgcmp
- dependabot/
- github/workflows/pr.yaml
 - github.com/9sako6/imgcmp
 - linting (reviewdog golang, docker, ...)
 - build (golang, docker, ...)
 - testing (golang, docker, ...)
 - vulnerability scan (docker)
 - deploy.yaml
 - create github release
 - publish package (docker)







6. \$ code

- standard library
- go tests & examples -> go doc
- IDE linting (vs code, goland)
- hazcod/gherror: send errors to github
- scratch containers
- healthcheck probes
- oauth2/oidc(pkce)
- api gateway
- paseto
- grpc/flatbuffers
- uber/cadence

```
$ go test -v
=== RUN TestReverse
--- PASS: TestReverse (0.00s)
=== RUN: ExampleReverse
--- PASS: ExampleReverse (0.00s)
PASS
ok github.com/golang/example/stringutil 0.009s
```

7. \$ what's next

github.com/ironPeakServices

- more iron docker images
- swarm -> kubernetes
- opentracing
- volume clustering
- code fuzzing
- integration testing / TDD

. . .



7. \$ exit



https://ironpeak.be/slides/261109-going-secure-on-github.pdf