

A painless self-hosted Git service: Gitea

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About me



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Thanks

OSS Planet .net

#JustGoOpen

Just Go Open, I've Got Your Back.

Agenda

- ♦ What is Gitea?
- ♦ Why we choose Gitea?
- + How to install Gitea?
- → Integrate CI/CD Service
- + How to contribute to Gitea

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- + Git Hosting Services
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Public Git Hosting Services







Bitbucket

GitHub

Gitlab

Public Git hosting sites

Git Hosting	Open source	Self Host	Free Private Repo	UI/UX
GitHub	No	No	No	***
Bitbucket	No	Yes (Hard)	Yes	*
Gitlab	Yes	Yes (Hard)	Yes	*
Gitea	Yes	Yes (Easy)	Yes	***

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What is Gitea?

The initial development have been done on Gogs https://github.com/go-gitea/gitea

Purpose

- **♦** Easiest
- **♦**Fastest
- **♦**Painless

Gitea hosted Gitea

- Comment on commit and PR (#124)
- ♦ Squash merge
- → Complete Protected branch (#32 #339)
- → Complete API support (#64)
- → OAuth provider (#27)
- + API Documents (#194)
- → Complete notifications system (#145)
- + Complete Webhook support (#132 (PR #908) #895 #1002)
- ♦ Better CI Integration (#996 (PR #1332))
- * Approval system

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Free & Open Source

https://github.com/go-gitea



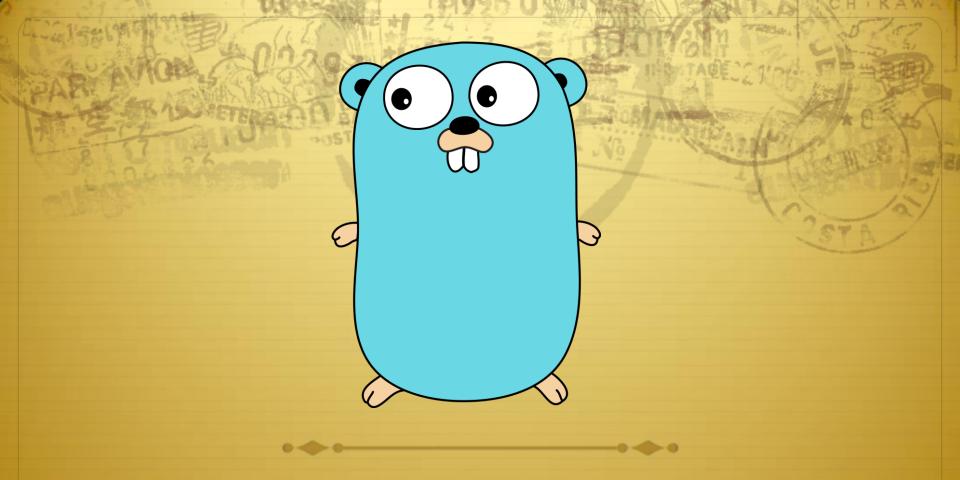
Easy install than Gitlab

Gitlab: https://goo.gl/YP3DF9

Gitea: https://goo.gl/GuCuQZ



Low memory and low cost



Gitea is written in Golang



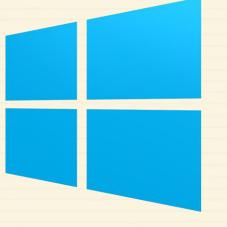
You don't need to install any dependency package on your server



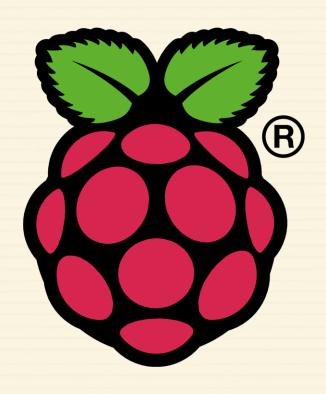
Cross Platform







ARM Platform





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Installation

- + Docker
- → Binary
- → Package
- ♦ Source

Installation

- + Docker
- → Binary
- ♦ Package
- ♦ Source



http://bit.ly/install-gitea



https://dl.gitea.io/gitea



Run the Gitea Service

gitea web

First Install

Install Steps For First-time Run

If you're running Gitea inside Docker, please read the Guidelines carefully before you change anything on this page!

Database Settings

Gitea requires MySQL, PostgreSQL, SQLite3 or TiDB.

Database Type *

SQLite3

Path *

data/gitea.db

The file path of SQLite3 or TiDB database.

Please use the absolute path when you start as service.

Application General Settings

Application Name*

Gitea: Git with a cup of tea

Put your organization name here huge and loud!

Repository Root Path *

/home/git/gitea-repositories

All Git remote repositories will be saved to this directory.



Don't Run Gitea as root user



useradd -m git

SSH Protocol



appleboy / test-repo

Unwatch

Quick Guide

Clone this repository Need help cloning? Visit Help!

HTTP

SSH

git@l28.199.111.130:appleboy/test-repo.git



Create a new repository on the command line

```
touch README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin git@l28.199.111.130:appleboy/test-repo.git
git push -u origin master
```

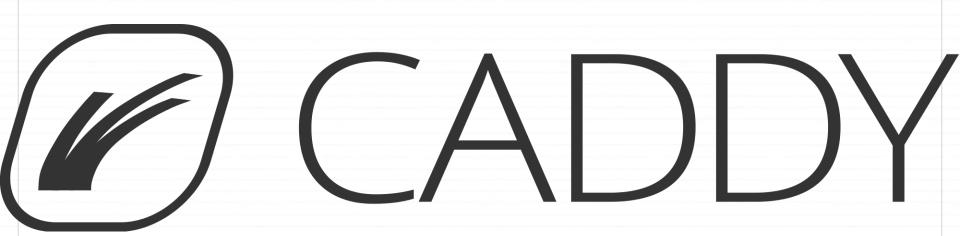
Missing https?

Clone this repository Need help cloning? Visit Help!

HTTP

SSH

http://128.199.111.130:3000/appleboy/test-repo.git



You don't need to care about expire time of certificate file.

example.com { proxy / localhost:3000 }

https://github.com/caddyserver/examples/tree/master/gitea



Easy install in 5 minute

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Deploy

Develop



Testing



Pull Request



Code Review









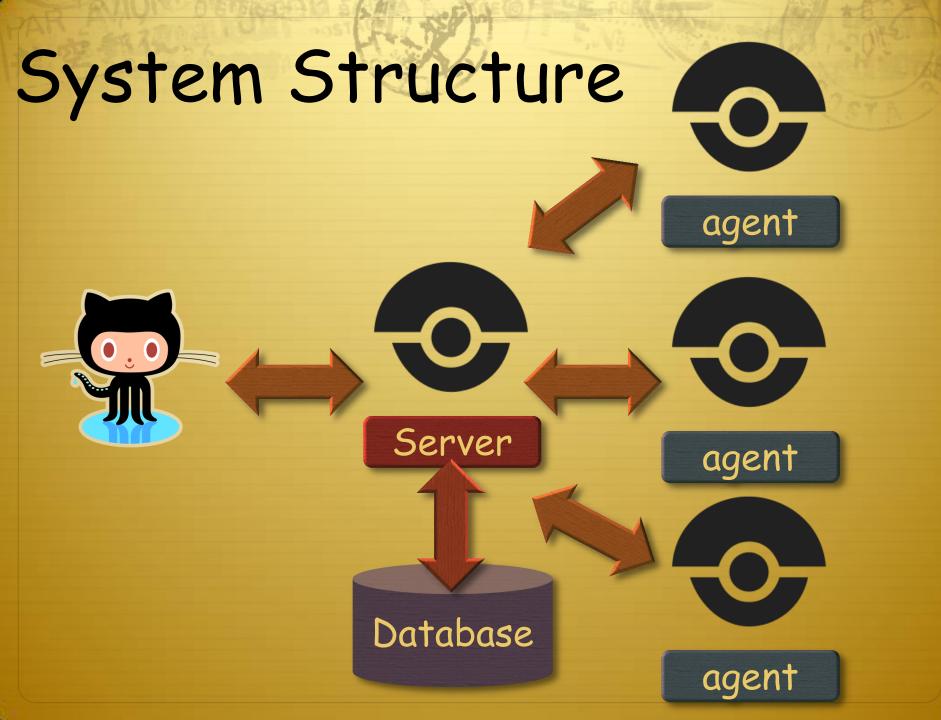
Gitea

Drone



What is Drone?

Drone is a Continuous Delivery system built on container technology.



drone-server: image: drone/drone:0.8 ports: - 8080:8000 - 9000:9000 volumes: - ./:/var/lib/drone/ restart: always environment:

- DRONE_HOST=http://localhost:8080

Drone Server

- DRONE_OPEN=true
- DRONE_SECRET=drone-workshop
- DRONE_ADMIN=appleboy

```
# Gitea Config
```

- DRONE_GITEA=true
- DRONE_GITEA_URL=https://try.gitea.io
- DRONE_GITEA_GIT_USERNAME=admin_username
- DRONE_GITEA_GIT_PASSWORD=admin_password

image: drone/agent:0.8

restart: always

depends_on:

- drone-server

volumes:

- /var/run/docker.sock:/var/run/docker.sock

environment:

- DRONE_SERVER=drone-server:9000
- DRONE_SECRET=drone-workshop
- DRONE MAX PROCS=3



https://github.com/go-training/drone-tutorial



Easy install in 5 minute

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Contribute to Gitea

https://goo.gl/JiMsyA

Contribution Guide

- → Bug reports
- * Discuss your design
- * Testing before sending your pull request
- + Code review



contributed at least 4 accepted PRs.



Try it.

https://try.gitea.io



Thank you

Any problems?