

Gitea incremental import/export

To resume migrations and enable mirroring of issues, pull requests etc.

Mirroring more than git

Migrate From GitLab

Migrate / Clone From URL *
The HTTP(S) or Git 'clone' URL of an existing repository

Access Token [?](#)

Migration Options This repository will be a [mirror](#)
 Migrate LFS files

Migration Items Wiki

Access Token is required to migrate additional items

Labels Issues
 Merge Requests Releases
 Milestones

Resuming migrations



lunny commented on Feb 23, 2017 • edited ▾

Member ...

For the first big stage, we would like Gitea's development could be based on a Gitea hosted and github will only a mirror. This will maybe completed in v1.x. So that this issue will list all the features needed to be implemented before v1.x. And of course please discuss them and change my post.

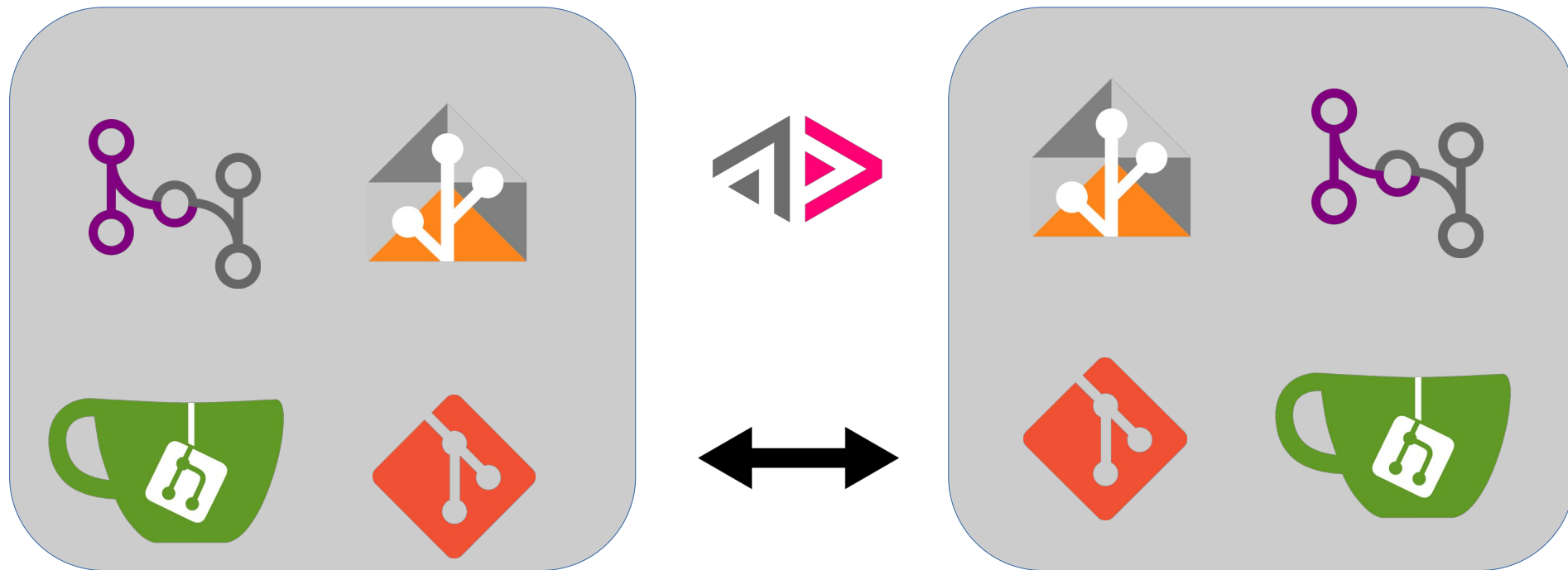
- ✓ Squash merge (#712 #3188)
- ✓ Complete Protected branch (#32 #339)
- ✓ Complete API support (#64)
- ✓ API Documents (#194)
- ✓ Webhooks implementation (#2418)
- ✓ Better CI Integration ((PR #1332) Drone PR: (#2017)
- ✓ Comment on commit and PR (#124 #2583 #3748)
- ✓ Approvals system (#2794 #3748)
- ✓ Approvals limitations (#5261)
- ✓ Migrate a throughout github repository to gitea (#6290, #7293, #6200, #7410)
- ✓ Dump/restore github/gitlab repository data to a local directory and restore to gitea #12244

Migrating Progress Updated:

- migrate gitea repository -> <https://gitea.com/gitea/gitea> blocked by #18165
- ✓ migrate go-sdk repository -> <https://gitea.com/gitea/go-sdk>
- ✓ migrate git repository -> <https://gitea.com/gitea/git>
- ✓ migrate tea repository -> <https://gitea.com/gitea/tea>
- ✓ migrate website repository -> <https://gitea.com/gitea/website>
- ✓ migrate blog repository -> <https://gitea.com/gitea/blog>
- ✓ migrate theme repository -> <https://gitea.com/gitea/theme>
- ✓ migrate redirects repository -> <https://gitea.com/gitea/redirects>
- ✓ migrate homebrew-gitea repository -> <https://gitea.com/gitea/homebrew-gitea>

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Federation protocols and formats



Storing the state of a project in git

Each gitea project has two git repositories

- <https://gitea.com/gitea/test-env.git>
- <https://gitea.com/gitea/test-env.wiki>

Let's add a third git repository

- <https://gitea.com/gitea/test-env.projectbase>



Data structures in Gitea

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- Issues
- Labels
- Pull requests
- Milestones
- ...



Build on the Gitea migration format



Git

Migrate a repository only from any Git service.



GitHub

Migrate data from github.com or other Github instances.



GitLab

Migrate data from gitlab.com or other GitLab instances.



Gitea

Migrate data from gitea.com or other Gitea instances.



Gogs

Migrate data from notabug.org or other Gogs instances.

Validate, document & maintain

 JSON Schema

```
{
  "$schema": "https://json-schema.org/draft/2020-12/schema",
  "$id": "https://example.com/product.schema.json",
  "title": "Product",
  "description": "A product in the catalog",
  "type": "object"
}
```


Idempotent gitea migration

Not idempotent

New issue I1 => Create => OK

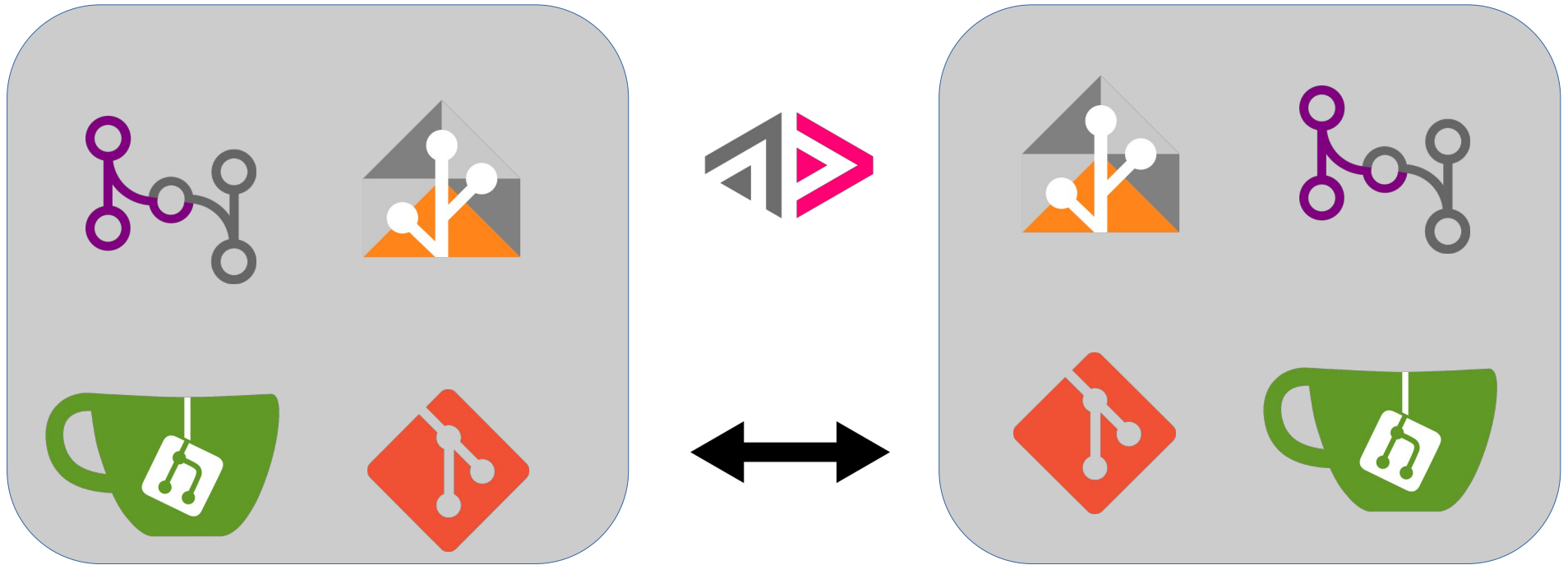
New issue I1 => Already exists => FAIL

Idempotent

New issue I1 => Create because not exists => OK

New issue I1 => Do nothing because exists => OK

Mirroring == incremental migration



Mirroring for the first time

On `https://gitea.io/`

- Write the database content of `me/software` to files
- `git commit`
- `git push https://gitea.io/me/software.projectbase`

On `https://myforge.io/`

- `git clone https://gitea.io/me/software.projectbase`
- Read migration files into the database

Updating the mirror

On `https://gitea.io/`

- Write the database content of `me/software` to files
- `git commit` the change
- `git push https://gitea.io/me/software.projectbase`

On `https://myforge.io/`

- `git pull https://gitea.io/me/software.projectbase`
- Read updated migration files into the database

References

<https://gitea.io/>

<https://forgefriends.org/>

<https://lab.forgefriends.org/forgefriends/forgefriends/>