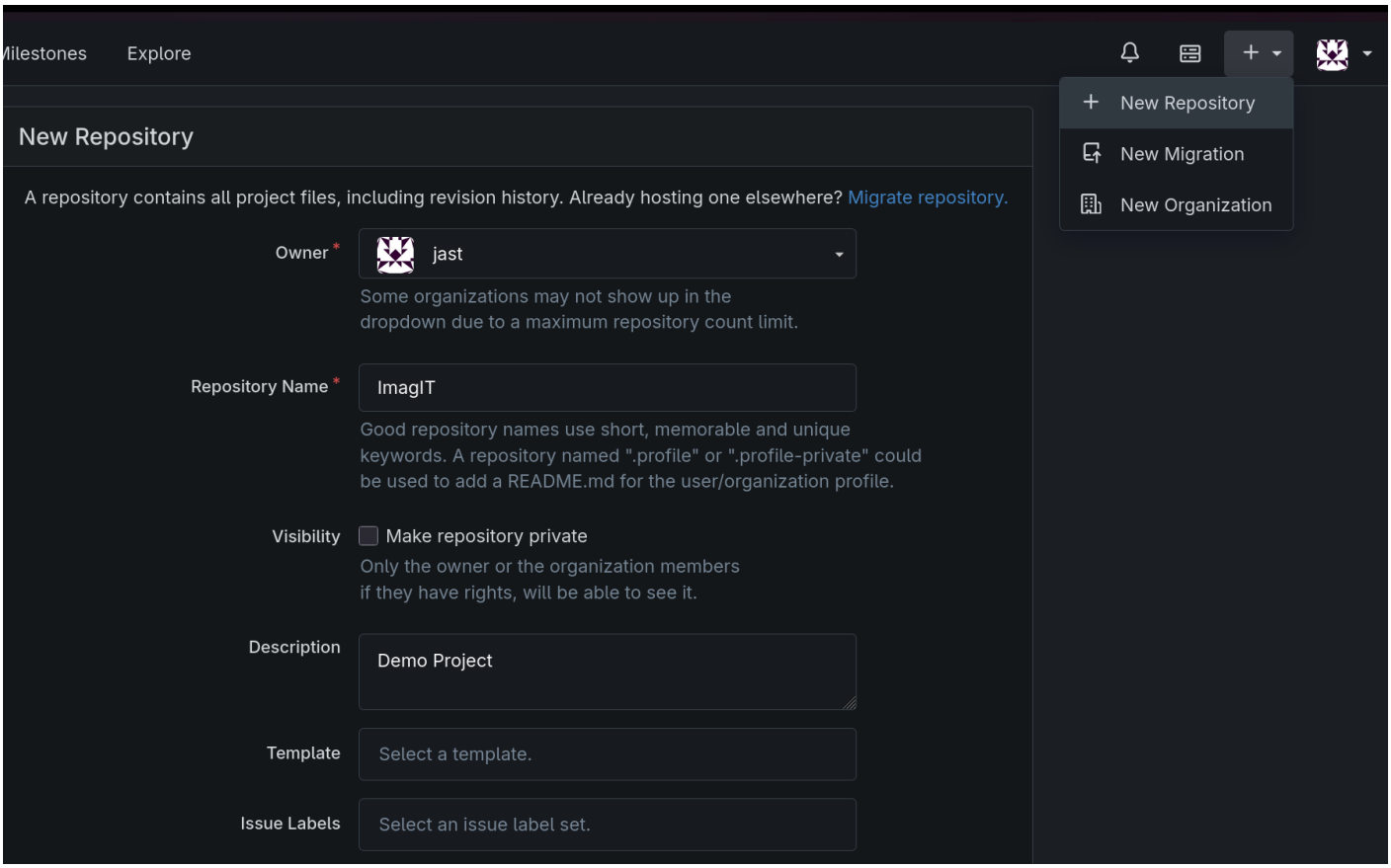
Code Repository - Gitea

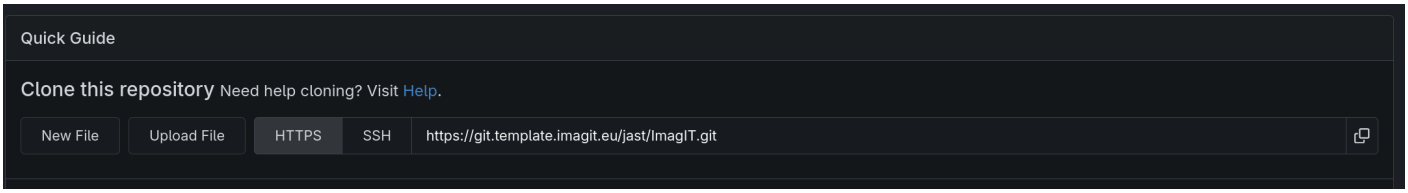
Gitea is your code repository — think GitHub, but hosted for you. You reach it at git.solo.imagit.eu, which is also linked from your dashboard.

Create a repository (web UI)

To quickly create a repository, press the **+** and choose **New Repository**. Set the options you want and press **Create Repository**.



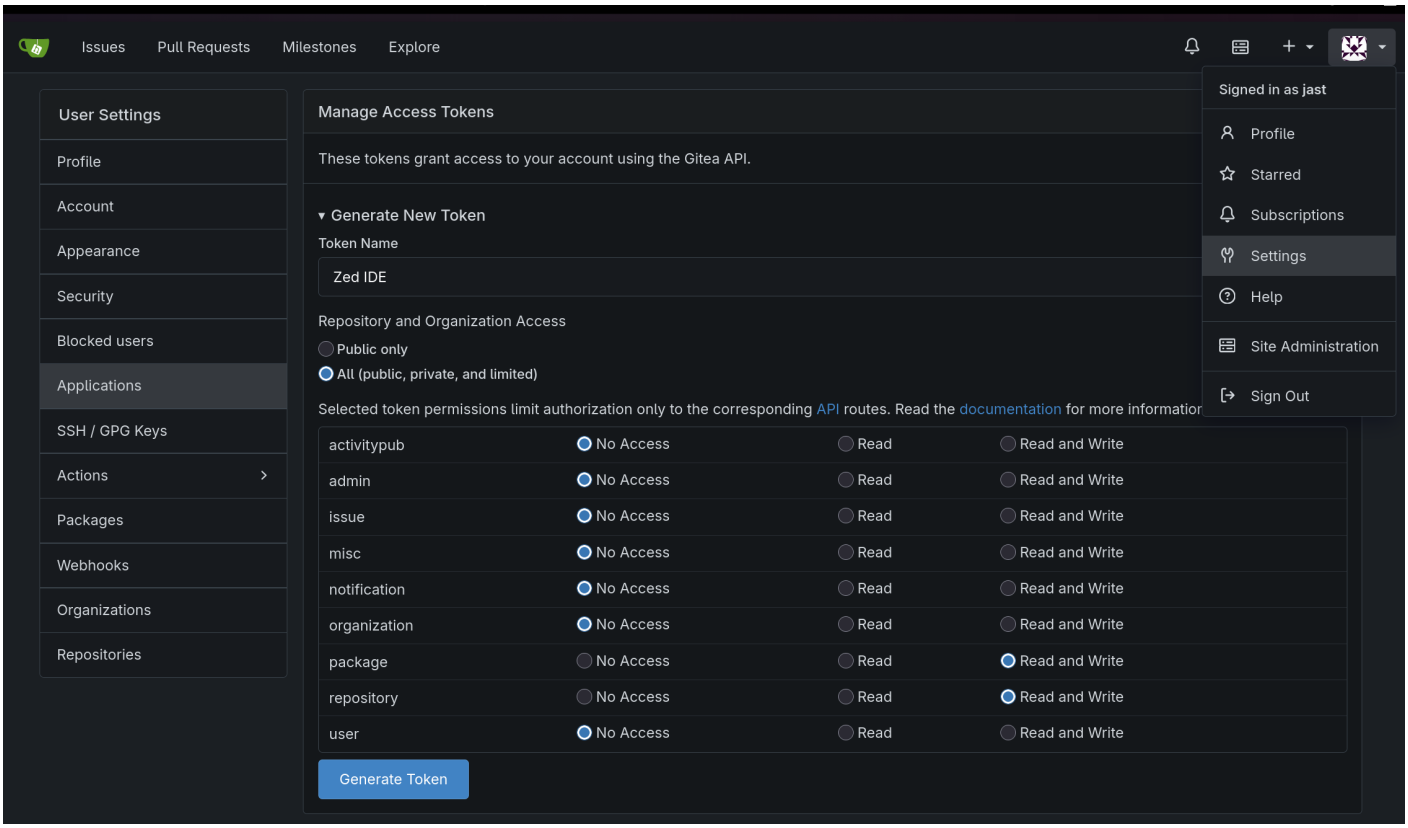
Once the repository has been created, the quick guide gives you a URL you can use to clone it locally.



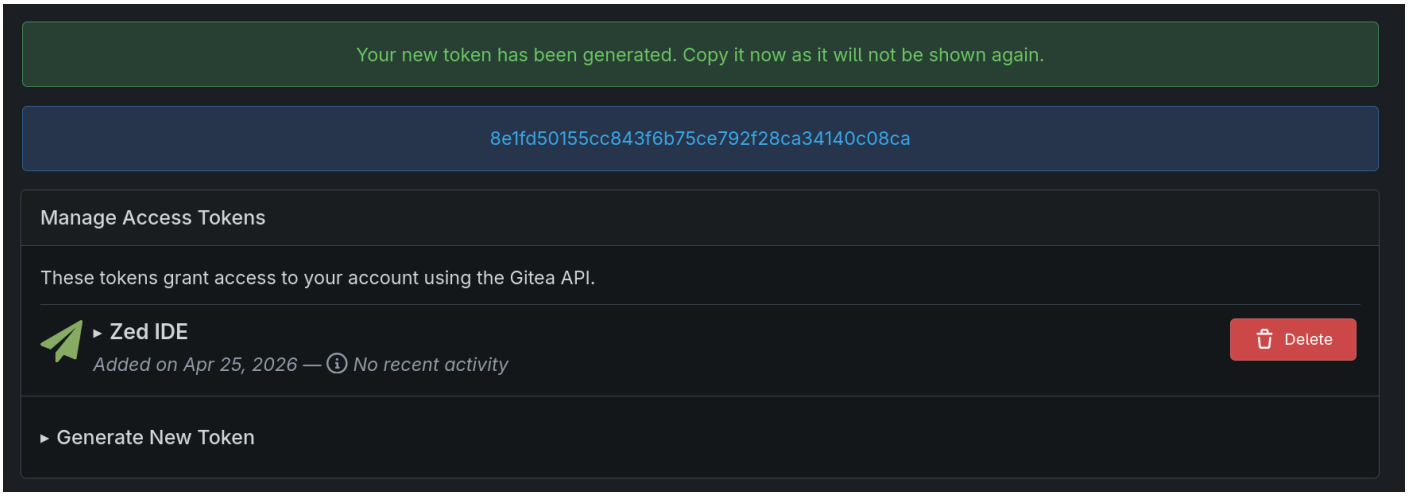
Create an access token

> **Authentication over SSH using SSH keys is currently not available.** Only authentication over HTTPS works.

To authenticate over HTTPS — required when 2FA is enabled — you need an access token. To create one, open **Settings** under your profile and go to **Applications**. Give the token a name. In this example I enabled read and write permissions for the repositories owned by this account, as well as read and write for packages, so images can be pushed and pulled.

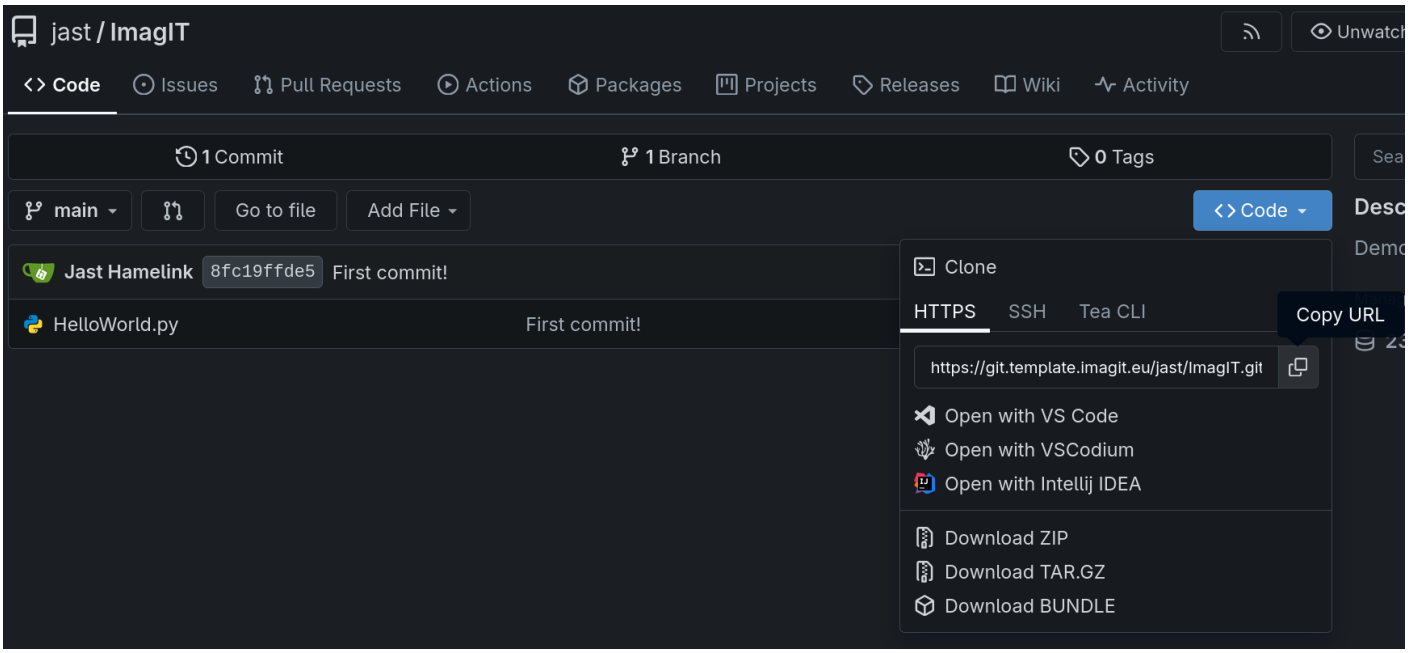


Click **Generate Token**. **This token will only be shown once.** Make sure to store it in your favourite password manager ;)



Use the repository with an access token (IDE)

To clone your new repository and work on it locally, press **Code** and copy the URL while in the repository.



Clone the repository to wherever you prefer.

Because this is a public repository, you will not be prompted for credentials when cloning or pulling. When pushing, you will be prompted for credentials — enter your username and the token you just created as the password.

```
[23:32] Bash
/tmp/ImagIT
❯ git clone https://git.template.imagit.eu/jast/ImagIT.git .
Cloning into '.'...
warning: You appear to have cloned an empty repository.

[23:32] Bash main ≠
/tmp/ImagIT
❯ touch HelloWorld.py

[23:32] Bash main ≠ ?1
/tmp/ImagIT
❯ git add . HelloWorld.py

[23:33] Bash main ≠ +1
/tmp/ImagIT
❯ git commit -m 'First commit!'
[main (root-commit) 8fc19ff] First commit!
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 HelloWorld.py

[23:33] Bash main ≠
/tmp/ImagIT
❯ git push
Username for 'https://git.template.imagit.eu': ImagIT
Password for 'https://ImagIT@git.template.imagit.eu':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 228 bytes | 228.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To https://git.template.imagit.eu/jast/ImagIT.git
 * [new branch]      main -> main
```

Push and pull (container) images

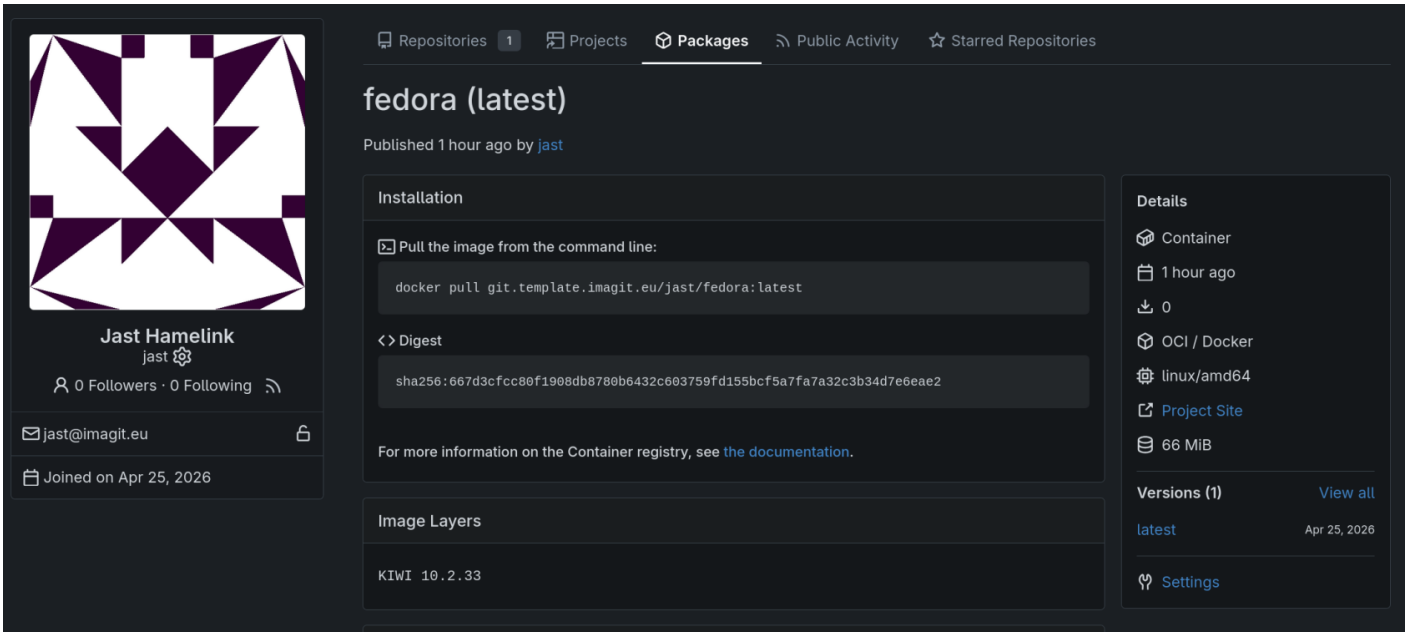
> For instructions on how to handle all kinds of packages in Gitea, see the Gitea official documentation.

The following push command pushes the image to the user's packages. You can also push to `URL/<USERNAME>/<REPOSITORY>`.

```
[23:46] Bash main ≡
/tmp/ImagIT
❯ podman image ls | grep fedora
registry.fedoraproject.org/fedora-toolbox                    43          74c69d7aefce  5 months ago   2.19 GB
registry.fedoraproject.org/fedora                            latest      19ab3fb5645e  5 months ago   186 MB
registry.fedoraproject.org/fedora-toolbox                    42          cb9499bfb430  8 months ago   2.13 GB

[23:46] Bash main ≡
/tmp/ImagIT
❯ podman push 19ab3fb5645e docker://git.template.imagit.eu/jast/fedora:latest
Getting image source signatures
Copying blob 422beffcc494 skipped: already exists
Copying config 19ab3fb564 done   |
Writing manifest to image destination
```

After pushing, your image appears under **Packages** in your repository. This screen also shows how to pull the image again (after authenticating with `docker`/`podman login`).



Build pipelines

> The ability to run pipelines (Gitea Runners) for the shared platform will be made available at a later stage. Until then, you can bring your own runner (BYOR).

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