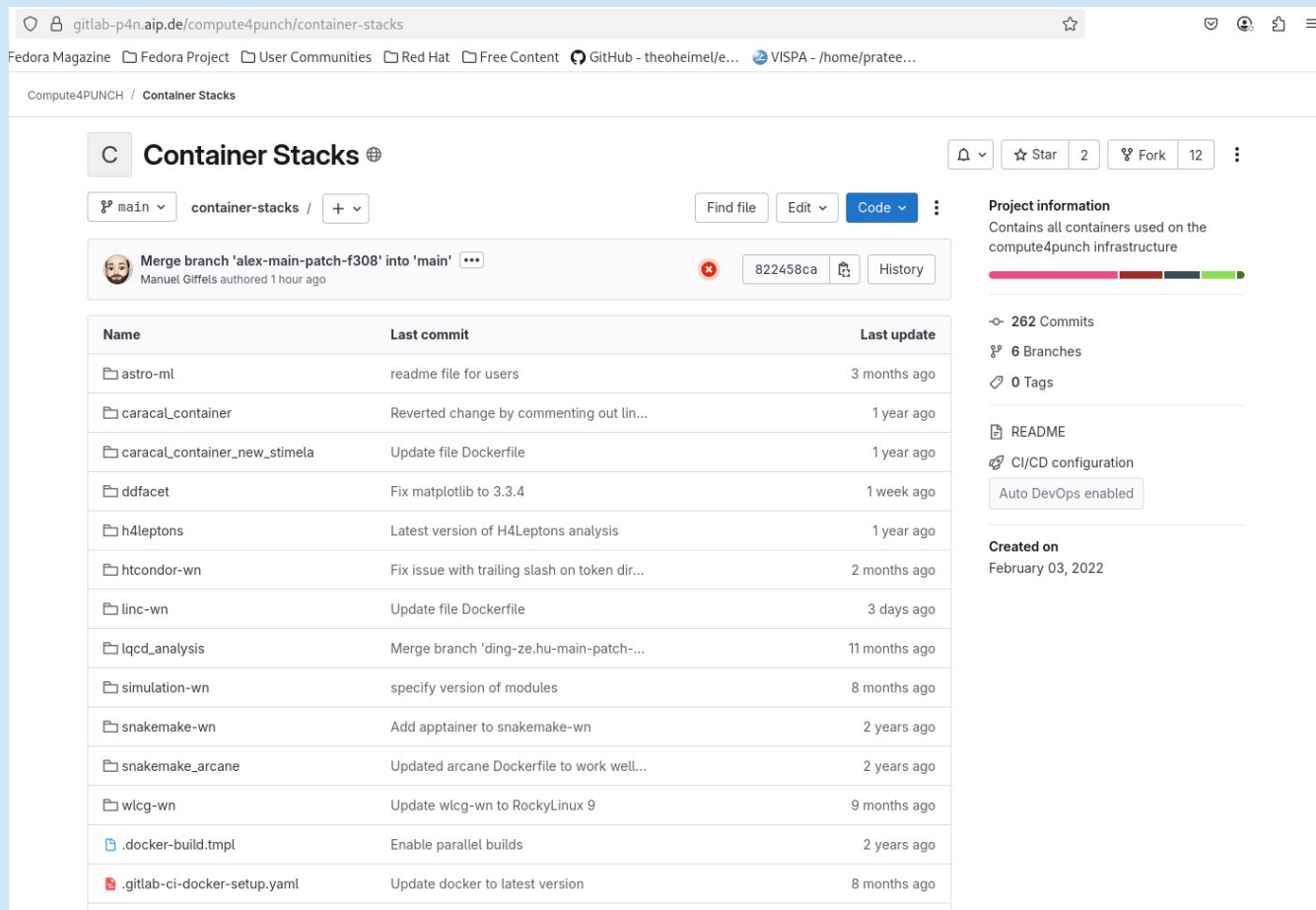# Overview on CI/CD 1.0

- GitLab CI/CD pipeline for maintaining docker containers

- Single repository contains all supportive docker files

- Any change to the repo, triggers the CI/CD pipeline

- All docker containers build again

# Overview on CI/CD 1.0

- Containers tagged with latest and the date as versions

- This scheme hinders the proper versioning or release of the docker container

# Status on CI/CD 2.0

- A common master CI/CD pipeline in a separate repository

- Build and deploy the docker container with proper version

- Always build a latest version

- Release container with git tag

- CI/CD deploy the container with this tag as version

- Tag can be any allowed text, i.e., v0.0.1, V0.2, check_point1

# Status on CI/CD 2.0

- A separate repository for each Docker file
- Repositories are part of the group "container-stacks-v2"
- Repository name → name of docker container

Compute4PUNCH / **container-stacks-v2**

**C** **container-stacks-v2** 🔒

🔔 ⌄  | New subgroup | **New project** | ⋮

**Subgroups and projects**   Shared projects   Shared groups   Inactive

🕘 ⌄ | Search (3 character minimum) | 🔍 | Name ⌄ | ↑≡

| | | | |
|---|---|---|---|
| ◻ **E** | **enzo_sim** 🔒 | ★ 0 | 6 days ago |
| ◻ **L** | **linc-wn** 🔒 | ★ 0 | 2 days ago |
| ◻ **M** | **master_cicd** 🔒 | ★ 0 | 3 days ago |
| ◻ **Y** | **yt_module** 🔒 | ★ 0 | 3 days ago |

# Status on CI/CD 2.0

# Status on CI/CD 2.0

# Status on CI/CD 2.0

## test_cicd_includev2 ⓘ

🔗 4 tags    💾 378.82 MiB    ⏱ Cleanup disabled    ∅ Created May 22, 2025 14:56    📅 Last published at May 23, 2025 10:58

| Filter results | 🔍 | Published ⌄ | ↓⁼ |

☐ 4 tags                                                                    Delete selected

☐ **kuch_bhi_ni** 📋 ⌄                                    Published 2 days ago        ⋮
   216.52 MiB                                            Digest: f5150d3

☐ **latest** 📋 ⌄                                        Published 2 days ago        ⋮
   216.52 MiB                                            Digest: f5150d3

☐ **check_point0** 📋 ⌄                                  Published 2 days ago        ⋮
   191.33 MiB                                            Digest: 176d11e

☐ **v0.1.8** 📋 ⌄                                        Published 3 days ago        ⋮
   191.33 MiB                                            Digest: 176d11e

# Status on CI/CD 2.0

- Automation of CVMFS deployment:
  Adding tagged/versioned docker container in "cvmfs image list"

- CI/CD pipeline will add the newly built container to the "cvmfs image list" file → "recipy.yaml"

- CI/CD pipeline will also triggers the Pull request to "cvmfs/images-unpacked.cern.ch" repository

- For Users: Just provide your Dockerfile and a meaningful repository name

# Thank you