

Overview on CI/CD 1.0

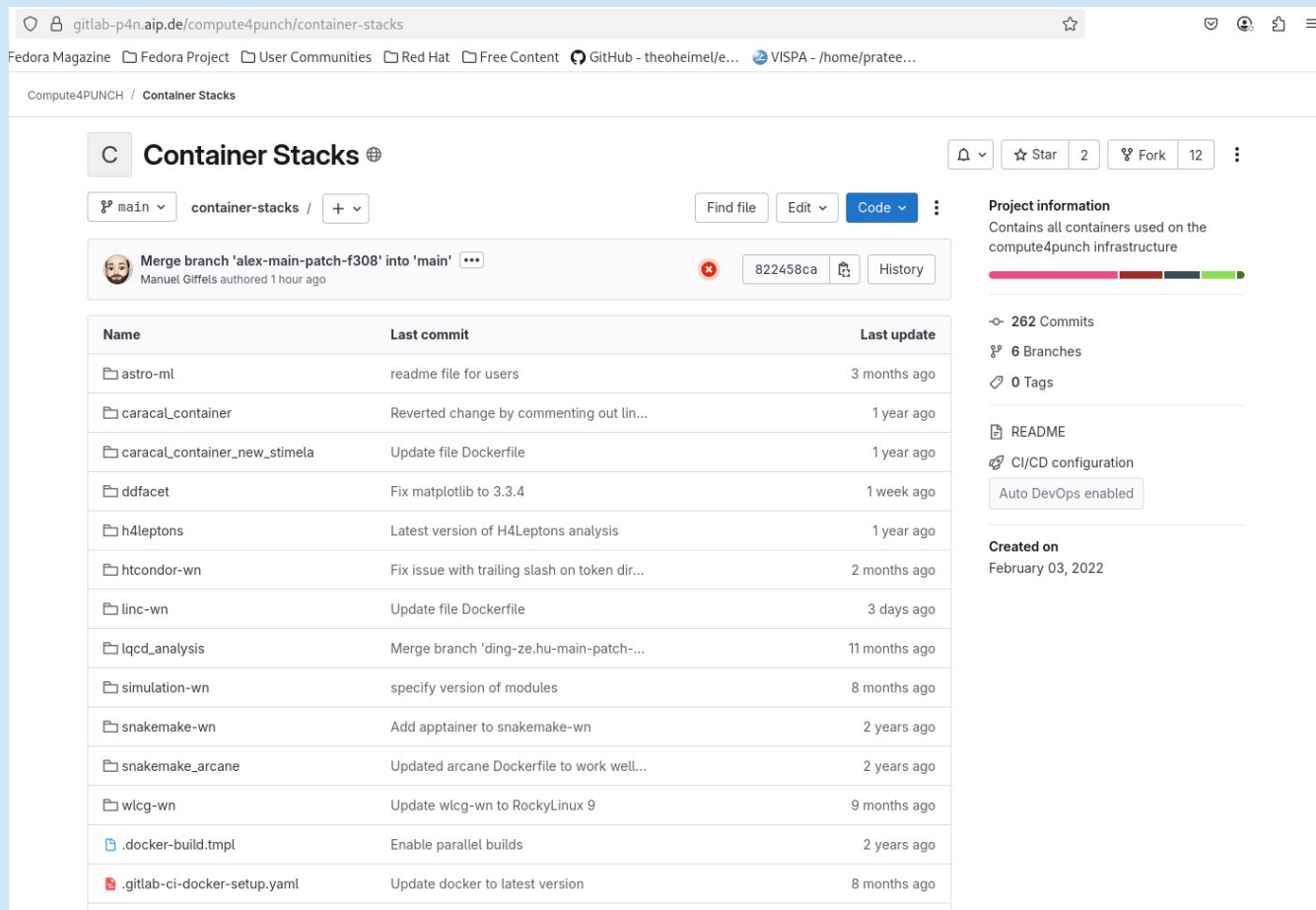
- GitLab CI/CD pipeline for maintaining docker containers
- Single repository contains all supportive docker files
- Any change to the repo, triggers the CI/CD pipeline
- All docker containers build again

The screenshot shows the GitLab web interface for the repository 'Container Stacks' at the path 'gitlab-p4n.aip.de/compute4punch/container-stacks'. The page displays a list of Docker containers managed by the repository, each with its name, the last commit message, and the time since the last update. A merge request is also visible at the top, titled 'Merge branch 'alex-main-patch-f308' into 'main''. On the right side, project information is provided, including the number of commits (262), branches (6), and tags (0). A README section is also present, indicating that the CI/CD configuration is enabled and that DevOps is auto-enabled. The repository was created on February 03, 2022.

Name	Last commit	Last update
astro-ml	readme file for users	3 months ago
caracaL_container	Reverted change by commenting out lin...	1 year ago
caracaL_container_new_stimela	Update file Dockerfile	1 year ago
ddfacet	Fix matplotlib to 3.3.4	1 week ago
h4leptons	Latest version of H4Leptons analysis	1 year ago
htcondor-wn	Fix issue with trailing slash on token dir...	2 months ago
linc-wn	Update file Dockerfile	3 days ago
lqcd_analysis	Merge branch 'ding-ze.hu-main-patch-...	11 months ago
simulation-wn	specify version of modules	8 months ago
snakemake-wn	Add apptainer to snakemake-wn	2 years ago
snakemake_arcan	Updated arcane Dockerfile to work well...	2 years ago
wlwg-wn	Update wlwg-wn to RockyLinux 9	9 months ago
.docker-build.tmpl	Enable parallel builds	2 years ago
.gitlab-ci-docker-setup.yaml	Update docker to latest version	8 months ago

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



The screenshot shows a GitLab repository page for 'Container Stacks' under the user 'compute4punch'. The repository has 262 commits, 6 branches, and 0 tags. A recent commit by Manuel Giffels is highlighted, showing a merge of 'alex-main-patch-f308' into 'main'. Below the commit list, a table displays the repository's structure and the last commit for each component.

Name	Last commit	Last update
astro-ml	readme file for users	3 months ago
caracaL_container	Reverted change by commenting out lin...	1 year ago
caracaL_container_new_stimela	Update file Dockerfile	1 year ago
ddfacet	Fix matplotlib to 3.3.4	1 week ago
h4leptons	Latest version of H4Leptons analysis	1 year ago
htcondor-wn	Fix issue with trailing slash on token dir...	2 months ago
linc-wn	Update file Dockerfile	3 days ago
lqcd_analysis	Merge branch 'ding-ze.hu-main-patch-...	11 months ago
simulation-wn	specify version of modules	8 months ago
snakemake-wn	Add apptainer to snakemake-wn	2 years ago
snakemake_arcane	Updated arcane Dockerfile to work well...	2 years ago
wlwg-wn	Update wlwg-wn to RockyLinux 9	9 months ago
.docker-build.tmpl	Enable parallel builds	2 years ago
.gitlab-ci-docker-setup.yaml	Update docker to latest version	8 months ago

Project information: Contains all containers used on the compute4punch infrastructure. Auto DevOps enabled. Created on February 03, 2022.

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

The screenshot shows a GitLab repository page for a project named 'Compute4PUNCH / container-stacks-v2 / master_cicd'. The repository is on the 'main' branch, and the current view is for the 'master_cicd' directory. A recent commit by Prateek Gupta is shown for the '.gitlab-ci.yml' file. Below this is a table of repository files:



Name	Last commit	Last update
.gitlab-ci.yml	Edit .gitlab-ci.yml	3 days ago
Dockerfile	Dockerfile to test CICD pipeline action	1 week ago
README.md	Edit README.md	1 week ago





Below the table is the content of the 'README.md' file. It describes the 'master_cicd' repository as a standard CI/CD pipeline for developing Docker containers. It includes a section 'How to use it' with instructions to create a project under 'container-stacks-v2' and lists two required files: 'Dockerfile' and '.gitlab-ci.yml'. It also mentions a template for other Docker containers, showing a 'stages:' section in a code block.

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


 **container-stacks-v2** 


   


Subgroups and projects Shared projects Shared groups Inactive













 

Search (3 character minimum)



Name 



  enzo_sim 	★ 0	6 days ago
  linc-wn 	★ 0	2 days ago
  master_cicd 	★ 0	3 days ago
  yt_module 	★ 0	3 days ago

Status on CI/CD 2.0

Compute4PUNCH / container-stacks-v2 / linc-wn

L **linc-wn** 

 main **linc-wn** / + 

Find file Edit **Code** 



Common CI file added




Prateek Gupta authored 2 days ago



610e62d3



History

Name	Last commit	Last update
 .gitlab-ci.yml	Common CI file added	2 days ago
 Dockerfile	Docker file for LINC pipeline	2 days ago
 README.md	Edit README.md	2 days ago

 README.md

linc-wn

LINC is a pipeline to correct for various instrumental and ionospheric effects in both LOFAR HBA and LOFAR LBA observations.

It includes:

- removal of clock offsets between core and remote stations (using clock-TEC separation)
- correction of the polarization alignment between XX and YY
- robust time-independent bandpass correction
- ionospheric RM corrections with RMextract
- removal of the element beam
- advanced flagging and interpolation of bad data
- mitigation of broad-band RFI and bad stations
- direction-independent phase correction of the target, using a global sky model from TGSS ADR or the new Global Sky Model (GSM)
- detailed diagnostics

Status on CI/CD 2.0

Compute4PUNCH / container-stacks-v2 / linc-wn

L linc-wn

main linc-wn / +

Find file Edit Code

Common CI file added
Prateek Gupta authored 2 days ago

610e62d3 History

Name	Last commit	Last update
.gitlab-ci.yml	Common CI file added	2 days ago
Dockerfile	Docker file for LINC pipeline	2 days ago
README.md	Edit README.md	2 days ago

README.md

linc-wn

LINC is a pipeline to correct for various instrumental and ionospheric effects in both LOFAR HBA and LOFAR LBA observations.

It includes:

- removal of clock offsets between core and remote stations (using clock-TEC separation)
- correction of the polarization alignment between XX and YY
- robust time-independent bandpass correction
- ionospheric RM corrections with RMextract
- removal of the element beam
- advanced flagging and interpolation of bad data
- mitigation of broad-band RFI and bad stations
- direction-independent phase correction of the target, using a global sky model from TGSS ADR or the new Global Sky Model (GSM)
- detailed diagnostics

Compute4PUNCH / container-stacks-v2 / linc-wn

main linc-wn / .gitlab-ci.yml

.gitlab-ci.yml

Common CI file added
Prateek Gupta authored 2 days ago

.gitlab-ci.yml 151 B

```
1 stages:
2   - build
3   - deploy
4
5 include:
6   - project: '$CI_PROJECT_NAMESPACE/master_cicd'
7     ref: main
8     file:
9       - '.gitlab-ci.yml'
```

Status on CI/CD 2.0

prateek / Test_CICD_IncludeV2 / Container registry / 8702821

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  ▾
216.52 MiB


Published 2 days ago
Digest: f5150d3



☐ latest  ▾
216.52 MiB


Published 2 days ago
Digest: f5150d3



☐ check_point0  ▾
191.33 MiB

Published 2 days ago
Digest: 176d11e



☐ v0.1.8  ▾
191.33 MiB

Published 3 days ago
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