



www.multixscale.eu

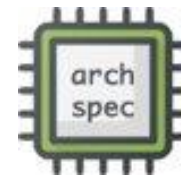
EESSI Happy Hour

Topic Series: CI/CD Workflows with EESSI

Mondays at 14:00 CEST



CernVM-FS



Current session: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>



Website: eessi.io

EESSI support portal:

gitlab.com/eessi/support

EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

Highlights:

- 11th EasyBuild User Meeting (EUM' 26) <https://easybuild.io/eum26>
Tue-Thu 21-23 April 2026 @ Guimarães, Portugal (home of Deucalion)
- EESSI Webinar Series 2026 Starting Mon 27 Apr'26: Introduction to EESSI
<https://event.ugent.be/registration/eessiwebinarspring2026>
- Webinar 4 of 5 EFP Authentication & Authorization Infrastructure (AAI) (*registration is open*)
Wed 29 April 2026 14:00-15:00 CET <https://my-eurohpc.eu/training/>
- ISC'26 conference
22-26 June 2026 @ Hamburg



EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>









CernVM-FS



Continuous integration

- Practice of frequently integrating changes to the main branch
- Requires automated build and test workflows

  **pm-bianco** merged commit `ef ce8e4` into `pyMBE-dev: mai n` [last month](#) Hide details Revert

4 checks passed	
✓  ubuntu - ESPResSo 4.2.2	Details
✓  ubuntu - ESPResSo 5.0-dev	Details
✓  codecov/patch 99% of diff hit (within 5% threshold of 99%)	Details
✓  codecov/project 99% (+0%) compared to bde39e0	Details



Continuous delivery

- Software is in a state that allows a new release at any time
- The actual release is triggered manually

Continuous deployment

- Software is in a state that allows a new release at any time
- The actual release is triggered automatically (continuously)



CernVM-FS



Lmod



EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

EESSI GitHub Action

- stack of scientific software built for multiple architectures
- GitHub-hosted runners provide x86 and ARM64 CPUs



CernVM-FS



Lmod



EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

```
name: CI/CD workflow
on:
  pull_request:
  push:
  branches:
jobs:
  testsuite:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v6
```



tutorial at:
[eessi.io](https://www.eessi.io)



CernVM-FS



Lmod





CernVM-FS



Lmod



- uses: `eessi/github-action-eessi@v3`

with:

`eessi_stack_version: 2025.06`

- name: `Install dependencies`

run: |

```
module use /cvmfs/dev.eessi.io/espresso/  
versions/${EESSI_VERSION}/software/  
linux/x86_64/amd/zen2/modules/all
```

```
module load ESPResSo/95f275a...422eacf-foss-2025a
```

```
module save espresso
```

```
python -m venv --system-site-packages venv
```

```
source venv/bin/activate
```

```
python -m pip install .
```



CernVM-FS



Lmod



- name: Run test suite

run: |

```
module restore espresso
```

```
source venv/bin/activate
```

```
export OMP_PROC_BIND=false OMP_NUM_THREADS=1
```

```
make tests -j4 COVERAGE=1
```

```
python -m coverage combine . testsuite/
```

```
python -m coverage report
```

```
python -m coverage xml
```

- name: Upload coverage to Codecov
- if: `${{ github.repository == 'pyMBE-dev/pyMBE' }}`
- uses: `codecov/codecov-action@v6`
- with:
 - files: `./coverage.xml`
 - disable_search: `true`
 - env_vars: `OS,PYTHON`
 - token: `${{ secrets.CODECOV_TOKEN }}`



CernVM-FS



Lmod



EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

- name: Remote login (for live debugging)
- uses: mxschmitt/action-tmate@v3
- with:
 - detached: true
 - limit-access-to-actor: true



CernVM-FS



Lmod



EESSI Happy Hour

Mondays at 14:00 CEST

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

- name: Remote login configuration
run: `echo 'source "$BASH_ENV"' >> ~/.bash_profile`
- name: Remote login (for live debugging)
uses: `owenthereal/action-upterm@v1`
with:
 - detached: `true`
 - limit-access-to-actor: `true`





www.multixscale.eu

EESSI Happy Hour

Mondays at 14:00 CE(S)T

Topic Series: CI/CD Workflows with EESSI

<https://www.eessi.io/docs/training/happy-hours-sessions>

Next Monday: EESSI Webinar Series 2026 (*Introduction to EESSI*)
<https://event.ugent.be/registration/eesswebinarspring2026>



Website: eessi.io

EESSI support portal:

gitlab.com/eessi/support



CernVM-FS

