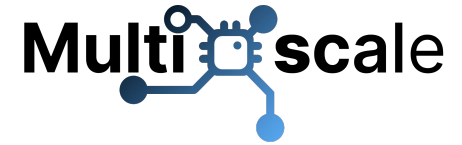




E E S S I

EUROPEAN ENVIRONMENT FOR
SCIENTIFIC SOFTWARE INSTALLATIONS



Hands-on

9th EasyBuild User Meeting 2024 (2024-04-25)

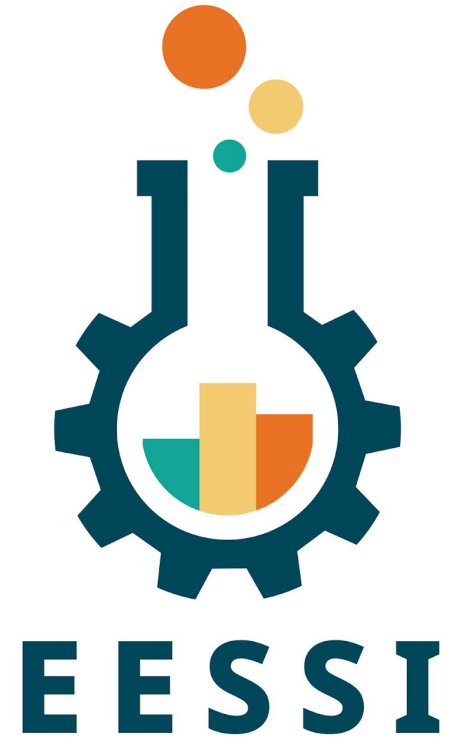
Kenneth Hoste (HPC-UGent)

kenneth.hoste@ugent.be



- Getting access to EESSI
- Using EESSI

eessi.io/docs



Getting access to EESSI



- Native installation of CernVM-FS (*requires admin privileges*)
eessi.io/docs/getting_access/native_installation
- Using a container (via Apptainer)
eessi.io/docs/getting_access/eessi_container
- Via cvmfsexec
github.com/cvmfs/cvmfsexec

To check whether you have access to EESSI:

```
ls /cvmfs/software.eessi.io
```

Using EESSI - initialise environment



- eessi.io/docs/using_eessi/eessi_demos

```
[user@system ~]$ source /cvmfs/software.eessi.io/versions/2023.06/init/bash
Found EESSI repo @ /cvmfs/software.eessi.io/versions/2023.06!
archdetect says x86_64/amd/zen2
Using x86_64/amd/zen2 as software subdirectory.
Using /cvmfs/software.eessi.io/versions/2023.06/software/linux/x86_64/amd/zen2/mod
Found Lmod configuration file at /cvmfs/software.eessi.io/versions/2023.06/software
Initializing Lmod...
Prepending /cvmfs/software.eessi.io/versions/2023.06/software/linux/x86_64/amd/zen
Environment set up to use EESSI (2023.06), have fun!

{EESSI 2023.06} [user@system ~]$
```

Using EESSI



- eessi.io/docs/using_eessi/eessi_demos

```
$ git clone https://github.com/EESSI/eessi-demo.git
```

```
$ cd eessi-demo/TensorFlow
```

```
$ ./run.sh
```

```
Epoch 1/5
```

```
1875/1875 [=====] - 3s 1ms/step - loss: 0.2983 - accur
```

```
Epoch 2/5
```

```
1875/1875 [=====] - 3s 1ms/step - loss: 0.1444 - accur
```

Acknowledgements

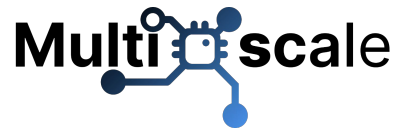


Co-funded by
the European Union



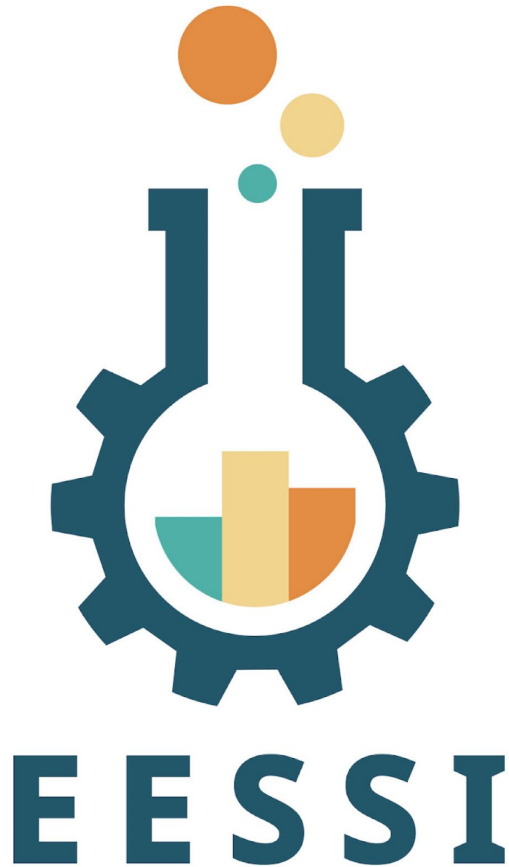
EuroHPC
Joint Undertaking

- Funded by the European Union. This work has received funding from the European High Performance Computing Joint Undertaking (JU) and countries participating in the project under grant agreement No 101093169.



- Thanks to Amazon Web Services (AWS) and Microsoft Azure for generously sponsoring the EESSI project with cloud credits, feedback, and guidance.





EUROPEAN ENVIRONMENT FOR
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Website: eessi.io

GitHub: github.com/eessi

Documentation: eessi.github.io/docs

YouTube channel: youtube.com/@eessi_community

Paper (open access): doi.org/10.1002/spe.3075

EESSI support portal: gitlab.com/eessi/support

[Monthly online meetings](#) (first Thursday, 2pm CEST)

eessi.io/docs/meetings/2022-09-amsterdam

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