



EESSI meeting

July 2nd 2020

Agenda

1. Short introduction by new partners
2. Logo, website, docs, Twitter
3. Feedback on HPCKP'20 talk
4. Progress update
 - a. Filesystem layer (Bob, Thomas, Jaco)
 - b. Compatibility layer (Bob, Peter)
 - c. Software layer (Kenneth, Caspar, Alan)
5. Pilot setup
 - a. Applying for resources in FENIX infrastructure (Alan)
6. Software licenses (Kenneth)
7. What to do with new members? (Slack, mailing list, meetings, GitHub, ...)
8. Who does what the coming weeks?

Short introduction by new partners

- No official new partners since last meeting
- Several people joined Slack/ mailing list/ this meeting
- Feel free to quickly introduce yourself!

Logo, website, docs, Twitter

- Website: <https://www.eessi-hpc.org>, Twitter: [@eessi_hpc](https://twitter.com/eessi_hpc)
- Documentation: <https://eessi.github.io/docs>
- Logo captures different aspects of the project
 - Science
 - Performance
 - Collaboration
 - Automation
- Original, easy to recognize
- Created by Robin Steen
 - Friend of Kenneth, does graphical design
 - Kenneth asked for price quote for logo + website design in same style + stickers
 - Jaco mentioned Dell may cover these costs?



Feedback on EESSI talk at HPCKP'20

- https://github.com/EESSI/docs/tree/master/talks/20200618_HPCKP20
- Lots of interest following talk (see people joining Slack)
- Recording not available yet?

Progress update: filesystem layer

- Stratum-0 + Stratum-1 setup by Bob (& Henk-Jan?)
- Procedure is well documented at <https://github.com/EESSI/filesystem-layer/blob/master/README.md>
- Automation via Ansible, see <https://github.com/EESSI/filesystem-layer>
- Extensive testing by Thomas & Jaco (also with WSL!)
- First version of .deb and .rpm package for clients available: <https://github.com/EESSI/filesystem-layer/pull/24>
- Singularity container: <https://github.com/EESSI/filesystem-layer/issues/10>

Progress update: compatibility layer

- Bob & Peter have been playing around with Gentoo Prefix
 - Prefix installation now available in pilot repository:

`/cvmfs/pilot.eessi-hpc.org/test/gentoo/2020/startprefix`

- See README at <https://github.com/EESSI/compatibility-layer>
- PR at <https://github.com/EESSI/compatibility-layer/pull/4>
- Prefix bootstrap script is a bit unstable?
- Leverage ComputeCanada's overlay
(<https://github.com/EESSI/gentoo-overlay>)

Progress update: software layer

- Brainstorms meetings on June 9th and June 26th (Alan, Caspar, Kenneth)
 - [https://github.com/EESSI/software-layer/wiki/Brainstorm-meeting-\(June-9th-2020\)](https://github.com/EESSI/software-layer/wiki/Brainstorm-meeting-(June-9th-2020))
 - [https://github.com/EESSI/software-layer/wiki/Brainstorm-meeting-\(June-26th-2020\)](https://github.com/EESSI/software-layer/wiki/Brainstorm-meeting-(June-26th-2020))
- Rough idea of how to organize the software-layer repository
 - Leverage easyconfigs & easyblocks included with EasyBuild release as much as possible
 - Customize via hooks & if needed small set of easyconfigs/easyblocks
- Working on “build list” + driver script that uses EasyBuild as a library
 - <https://github.com/EESSI/software-layer/pull/5>
- Also looking into init script to set up environment for end users
 - <https://github.com/EESSI/software-layer/pull/4>

Pilot setup

- See <https://github.com/EESSI/software-layer/wiki/Pilot-setup>
- Figure out different layers + workflow + repository organisation
- Limited software stack: OpenFOAM, TensorFlow, GROMACS (LAMMPS?)
- Limited target systems: old/new CPUs, limited range of GPUs
- Applying for resources in FENIX infrastructure (Alan)
 - See <https://fenix-ri.eu/news/prace-icei-calls-proposals-0>

Software licenses

- Under which license do we produce our own scripts & co?
- Software layer: GPLv2 required (since EasyBuild is GPLv2)
- How do we make sure we only redistribute software we're allowed to?

Adding new project members

- Anyone can submit a request via <https://www.eessi-hpc.org/join/>
- They are added to Slack & mailing list + welcome to join meetings
- At some stage **active** contributors can get more permissions?
How do we decide on that?

Who does what in the coming weeks?

- Filesystem layer: more testing
 - Setting up Stratum-1 + squid proxy
 - Connecting to Bob's Stratum-0 pilot setup
- Compatibility layer:
 - Taming Gentoo Prefix bootstrap script
 - Set up a test installation of Gentoo Prefix for Linux/x86 for pilot setup (done?)
- Software layer:
 - Flesh out init and build script
 - Install software for pilot setup
 - Figure out sync to Stratum-0
- Testing, testing, testing + give feedback, report problems, ...