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EESSI Happy Hour

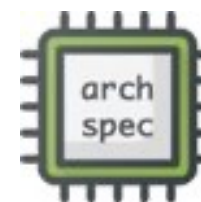
Topic Series: EESSI Mix and Match

<https://www.eessi.io/docs/training/2026/happy-hours-sessions>

Mondays at 14:00 CEST



CernVM-FS



Website: eessi.io

EESSI support portal:

gitlab.com/eessi/support

22-06-2026



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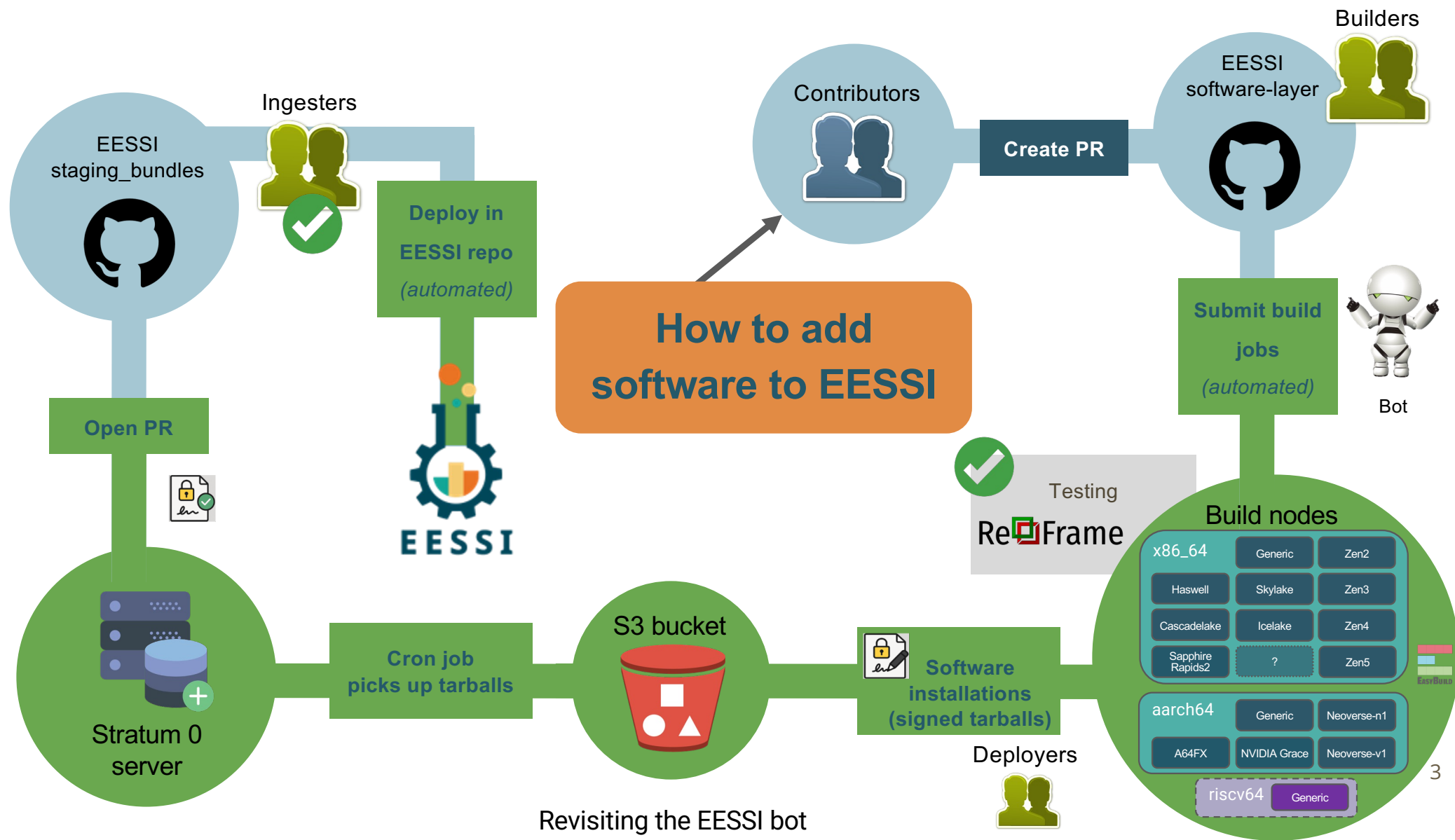
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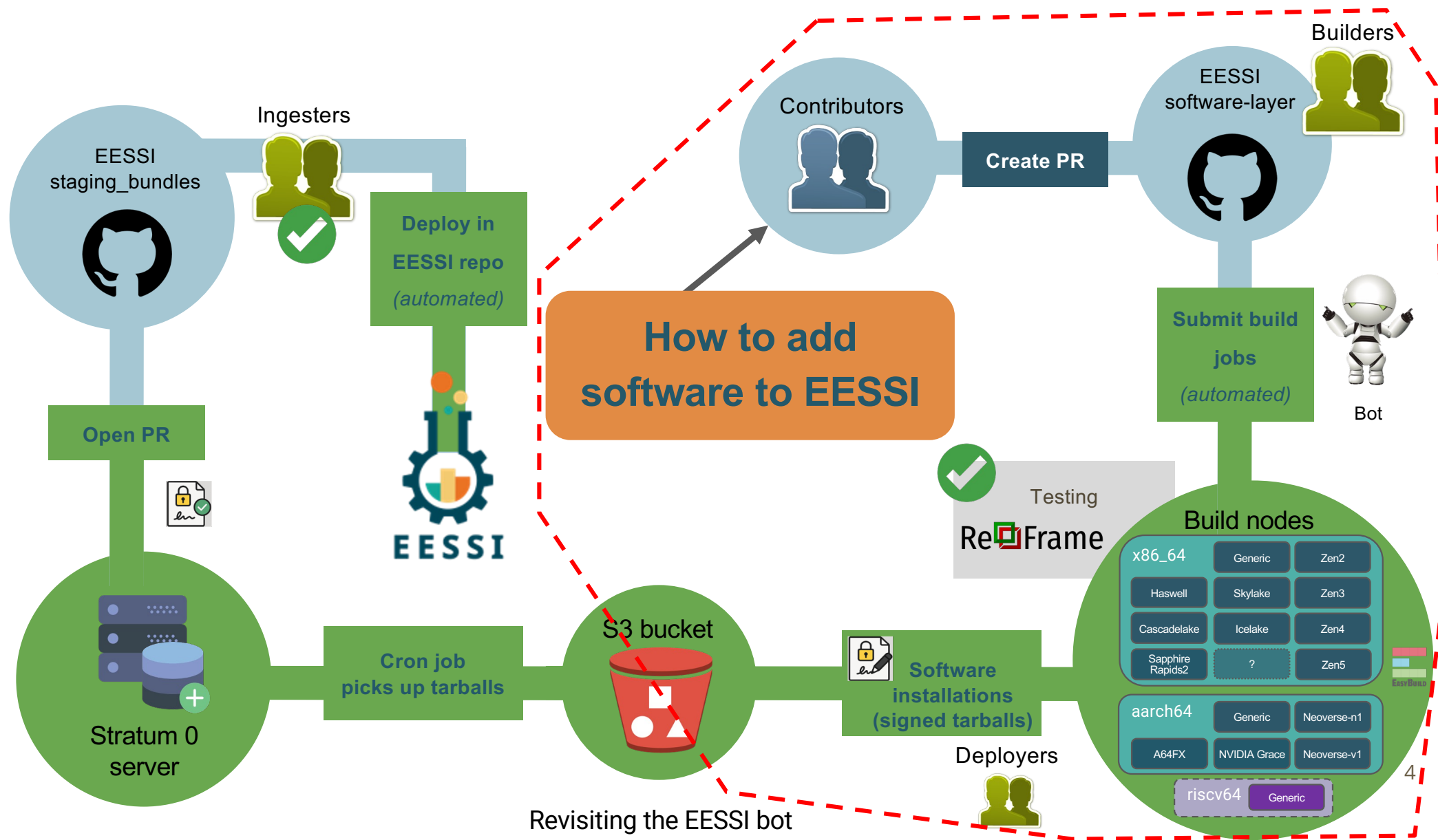
EESSI bot facts:

- GitHub App installed into three+ repositories:
 - <https://github.com/EESSI/software-layer>
 - <https://github.com/EESSI/software-layer-scripts>
 - <https://github.com/EESSI/compatibility-layer>
- Used since fall 2023, all software in software.eessi.io built with it (~30k installations)
- Written in mostly Python and bash using .ini style configs
- Gradually made agnostic of the above repos so it can also be used in scenarios beyond EESSI (i.e., building your local stack, ...)
- https://www.eessi.io/docs/adding_software/overview/
- https://www.eessi.io/docs/adding_software/contribution_policy/

Revisiting the EESSI bot



How to add software to EESSI





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EESSI bot “shortcomings”:

- Three components: Smee client, job manager, event handler
- Configuration is cumbersome (.ini format hard to consume in plain shell)
- Credentials not well protected
- Single fixed workflow only: build → check build → test → check test
- Only GitHub supported (→ GitLab support ongoing work by Sondre)
- Requires full access to pull requests to add/edit comments for reporting status
- Test coverage is low (→ ongoing work by Sondre)
- Only Slurm as backend supported
- No status page covering all bot instances

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The new EESSI bot

- Single process running several threads with distinct functions
- Threads communicate via internal message queues/buses
- Using yaml as configuration format
- Flexible and comprehensive options to manage credentials
- Support for flexible (target repo defined) workflows
- Support multiple code hosting platforms
- Alternatives for full access permissions to code hosting platforms/pull requests
- Aim at 100 % test coverage from the start; add integration and end-to-end tests
- Support Slurm, processes, (flux?), ... as execution backend
- Status page for bot instances (alive, version, jobs, quota left, ...)
- Keep UX as much as possible (improve command structure)



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The new EESSI bot

- Logo?
- Name? eessi-bot-software-layer → ???



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EASYBUILD

Lmod



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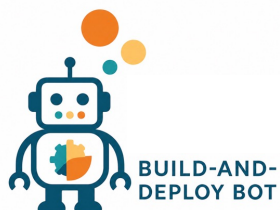
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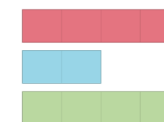
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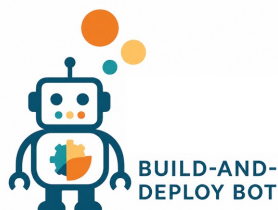
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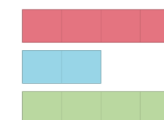
- Logo?



- Name? eessi-bot-software-layer $\rightarrow$ ('b', 'o', 't') + (1, 1, 1) $\rightarrow$ ('c', 'p', 'u')



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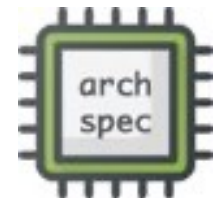
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Next session: Report on EESSI activities @ ISC'26

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