



A tailor-made distributed Appstack

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1st EESSI Meeting (Amsterdam)

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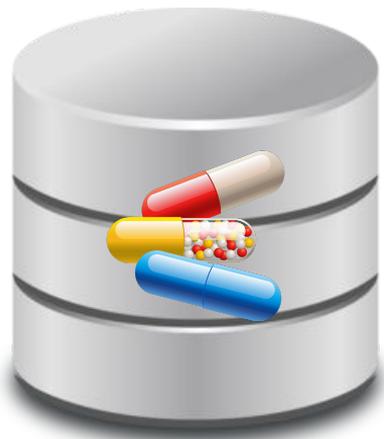
Support
Managed services



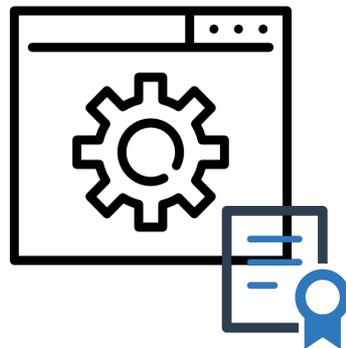
Use case: Pharmaceutical Company



Public distributed appstacks will not match



Self developed
databases



“Restricted”, custom
and
internal-developed
software



Security concerns

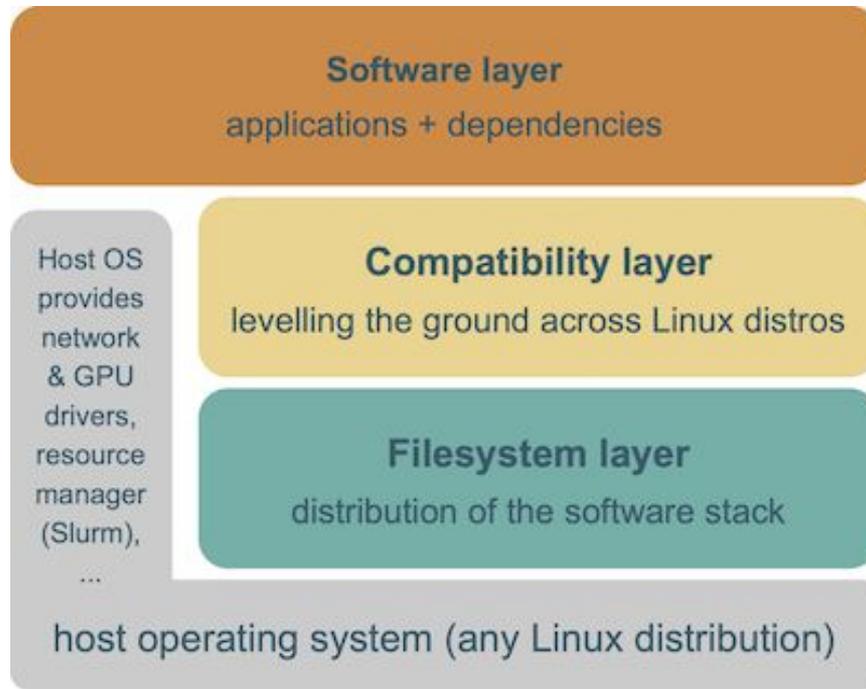


Reproducibility

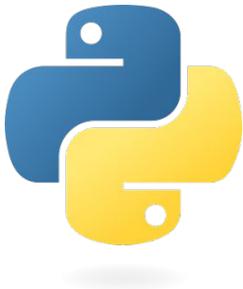
Tailor-made distributed Appstack



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Anaconda as a main Python flavor



- Anaconda is widely used by scientists to manage their own Python environment (conda env).
- Anaconda provides a supported Python distribution and a curated set of packages.
- The appstack provides two main Python flavours: Python compiled from source and Anaconda.
- Python-related applications are built on top of Anaconda.



Applications are built locally and distributed using
automatized workflows



Powered

Testing

User request

MR

Build

Distribute

User validation

+ 10 contributors

Arch-optimized

GPFS/CVMFS

m1 .testing

Peer Review
approval

Merge to prod

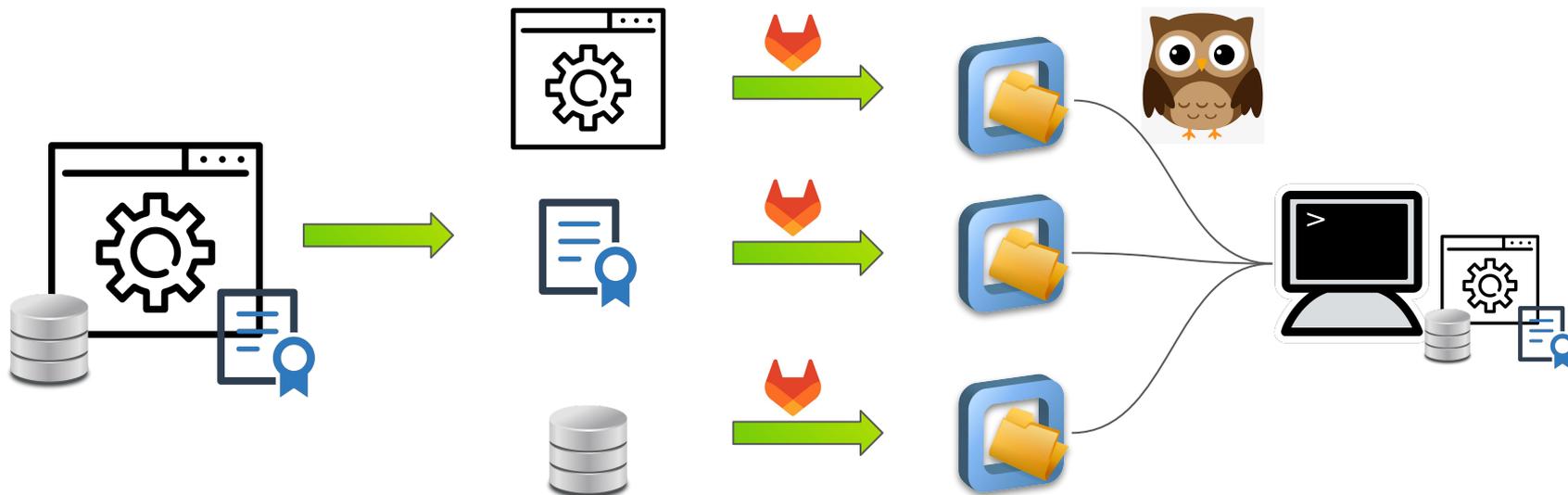
Build

Distribute

Production

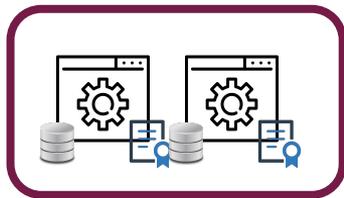
~200 apps + dependencies!

What about "restricted" software?

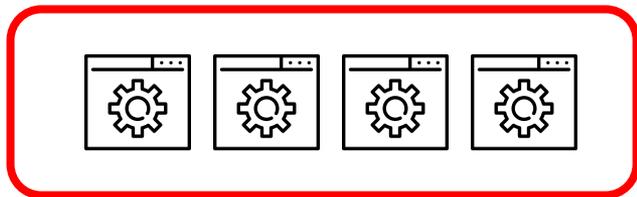


Access control

Layered approach provides a user suited appstack



Org. Restricted



Org. Specific

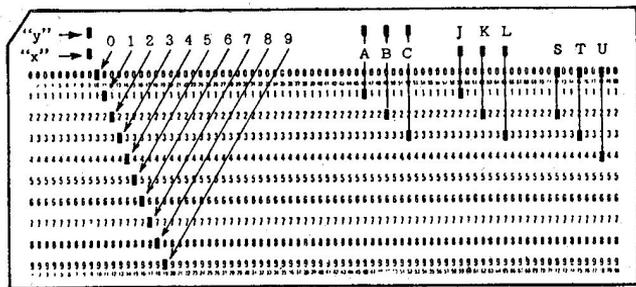
multiple repositories
apps.org1...
restricted.org1...
apps.org2...
restricted.org2...



Common

In production over a year ago!

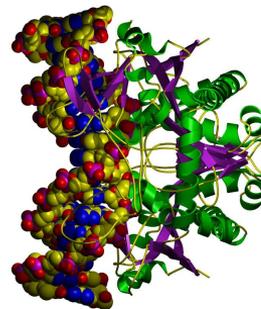
Lessons learned



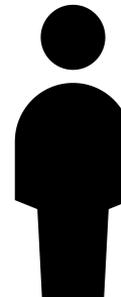
Legacy



Precompiled



Graphical+precompiled

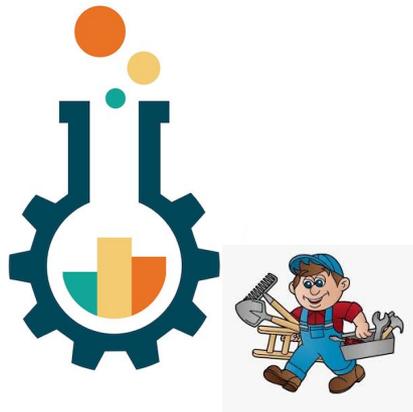


User-compiled



Future work

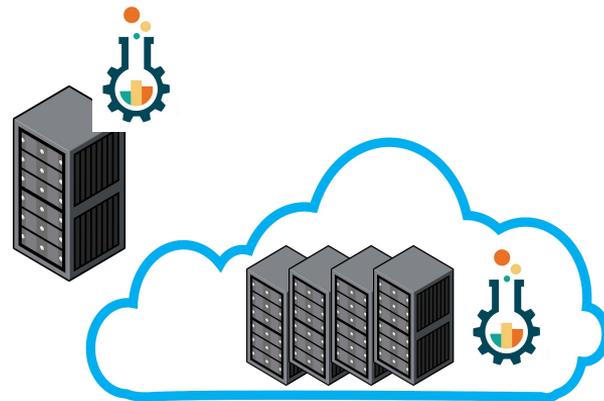
We are part of MultiXscale project!



Appstack
Maintenance



Training



Customer support

and more!



Thank you

Contact us:
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#HPC Knowledge Meeting will be finally organized in May 17-18, 2023

#QuantumComputing topics will be included in the program.

 Save the date! More information will follow soon!

 We are looking forward to meeting you all in person again in Barcelona!

#HPCKP #HPCKP23



We are hiring now!

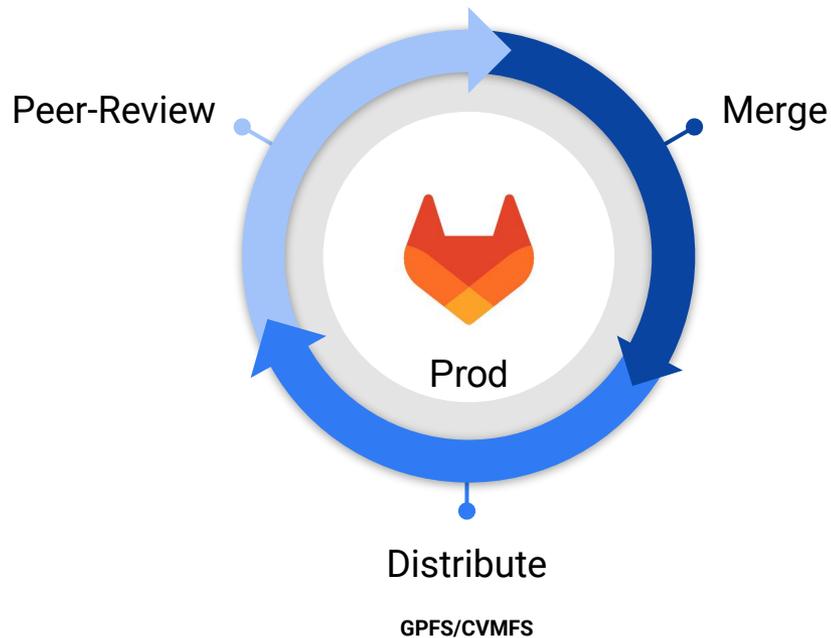
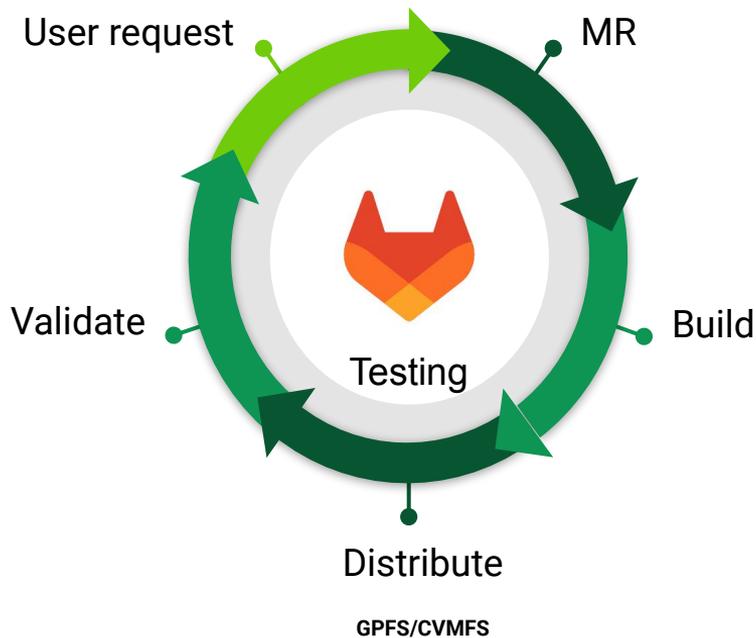
Open positions

- SysOps Engineer (NZ)
- Linux Systems Administrator (NZ)
- SysOps Engineer (EMEA)

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