

Feedback on our integration to the EGI Cloud Federation

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Summary

The UNIV-LILLE site

Presentation

History

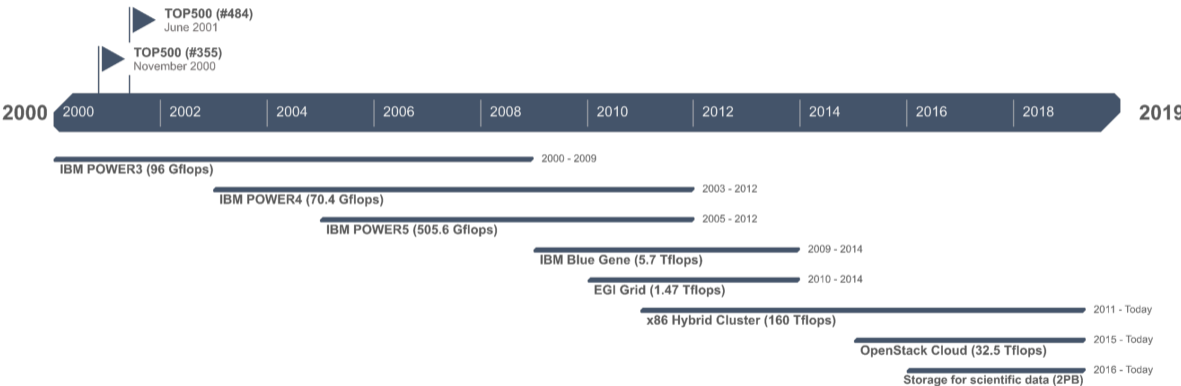
The cloud platform

The certification process

Conclusion

- Computing center founded in 2000
- Providing computing resources to regional researchers
- Composed of 3 complementary platforms (HPC/HTC cluster, OpenStack cloud, storage for scientific data)
- 372 active users
- 2 engineers to operate the computing center
- For more information, see hpc.univ-lille.fr (only in french)

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Resources

Use-cases

Back in EGI

The certification process

Conclusion

- OpenStack Queens on CentOS 7 (x86_64)
- 748 cores, 12 TB mem (with 48 physical cores / 576 GB mem reserved to EGI for now)
- Testbed for controller components integration/upgrade testing
- Upgrade to Rocky coming soon...

- Bioinformatics appliances: Galaxy, custom toolchains, etc.
- Humanities and social sciences: Hadoop, Spark
- Research in computer science: big data, cryptography, algorithmic, etc.
- Scientific portals hosting: GBIF (www.gbif.fr), Vidjil (www.vidjil.org)
- First publications:
 - doi.org/10.3390/genes10030206
 - dx.doi.org/10.13154/tosc.v2018.i1.254-276
 - doi.org/10.1111/mec.14229
 - ...

- No more skills to maintain local EGI services following the departure of an engineer
- EGI grid nodes decommissioned in 2014
- New federated OpenStack cloud (France Grilles) in 2015
- Wish to integrate the EGI federated cloud but UNIV-LILLE site no longer certified
- EGI RC Certification started in October 2018

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Where to start?

Barriers

Conclusion

- Participate to Grid Computing administration (X509, BDII, ...)
- Get assistance from NGI-FR (France Grilles)
- Find and read all required documentations, and beginning...

- Some parts of documentation are missing (still in redaction at the time of integration)
- Necessity to use both the historical and the new documentation (egi-federated-cloud-integration.readthedocs.io)
- Some faulty automatic procedures (like GOCDB/ARGO-MON interfacing)
- 8 tickets concerning our integration on GGUS, with different issues like ungranted access to AppDB images lists or some old versions of monitoring probes ([#137751](#), [#139182](#), [#139314](#), [#140156](#), [#140315](#), [#140542](#), [#140571](#), [#140996](#))

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Conclusion

- Some issues highlighted thanks to the integration
- Better personal knowledge of EGI operation after integration
- Proud to be back in EGI!
- Now planning integration to IFB french federation

Thanks for your attention.