The compute cluster lisa

Arthur Newton, Christine Staiger

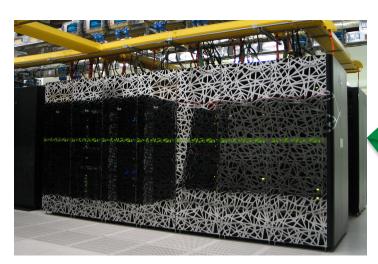
ELIXIR

SURFsara, Amsterdam, 25th June 2018

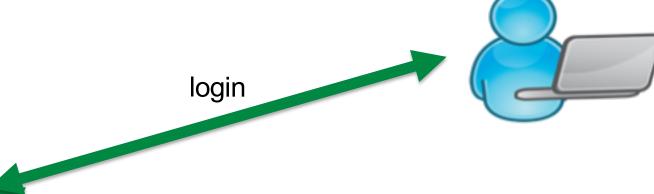




Training setup



Lisa login node



Python API

- 1. Connect to iRODS
- 2. Up and down load data
- 3. Annotate data
- 4. Search for data in iRODS







Training setup

What is a Supercomputer?

- A fast computer
- A large computer (memory/storage)
- An expensive computer (millions of € for hardware, electricity and man power)

Why/when do you need a Supercomputer?

- If your task would take months/years on a normal PC
- If your task requires more space (memory/storage) than available in PC

What is the difference?

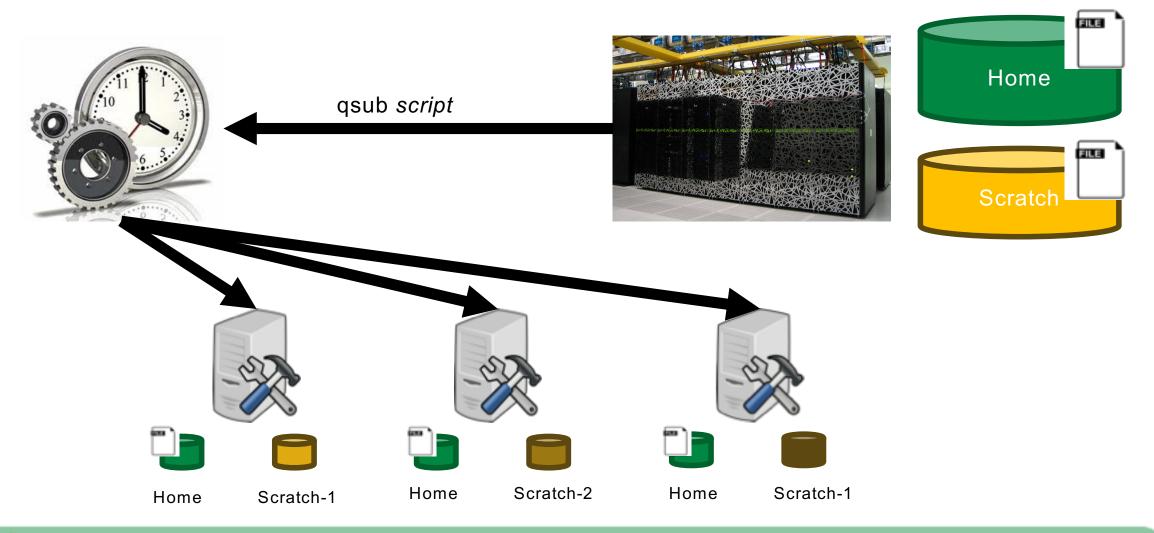
- Cartesius larger "blocks" (capability computing – fewer large scale jobs)
- Lisa smaller "blocks" (capacity computing – more small(er) scale jobs)
- Cartesius expensive expensive
- Lisa cheaper, but still expensive





Lisa

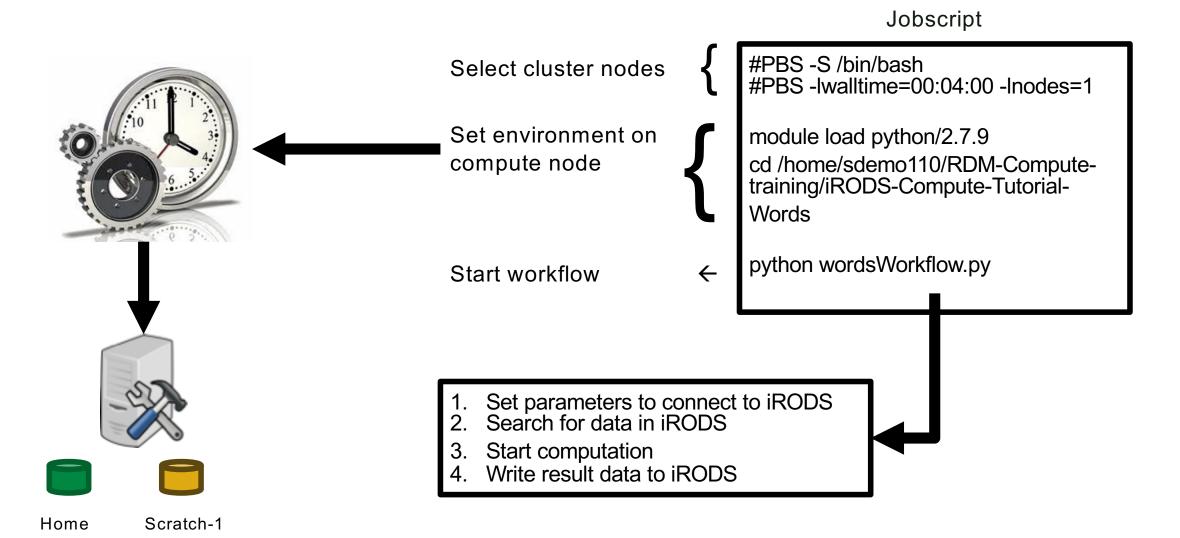
Lisa login node







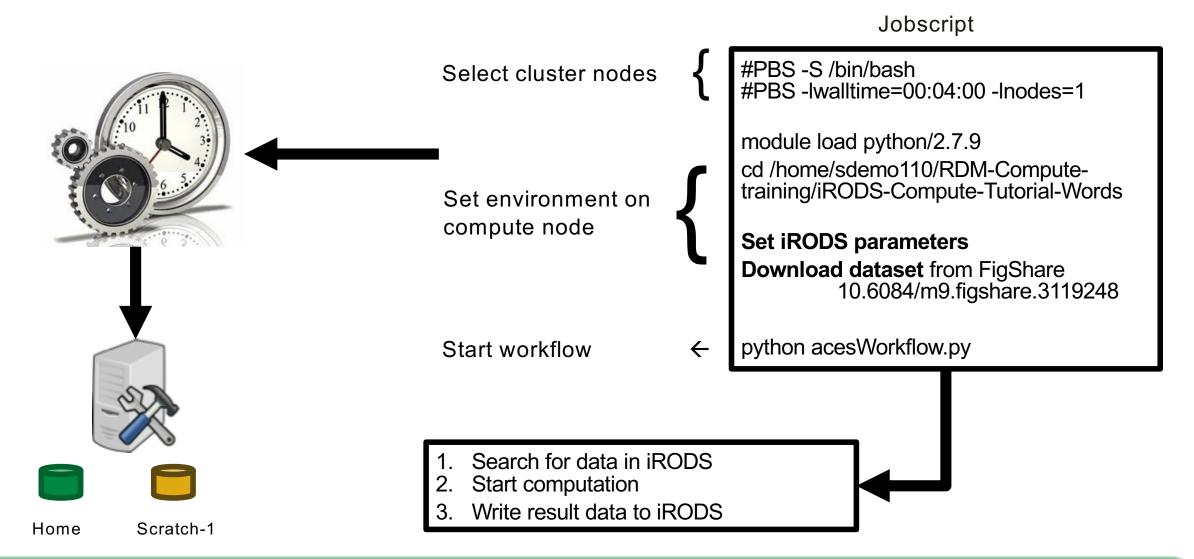
Workflow 1 - Wordcount







Workflow 2 - ACES







Thank you! Questions?

Slides based on PRACE iRODS training:

Zheng Meyer-Zhao, Arthur Newton, Christine Staiger Data Management with iRODS, Sept 2017 https://events.prace-ri.eu/event/638/



