Galaxy Australia



What is Galaxy?

- A web interface to a complex mixture of computing resources
- A launching site for analysis tool(s) with pre-determined and scalable resources keyed to a users dataset size
- A repository for reference data required to support analysis
- A workflow creation and run platform
- A data and results sharing platform



More examples of how Galaxy is used

28 JANUARY 2022

Virus research tips Galaxy Australia over 3 million jobs

31 AUGUST 2022

10 million jobs - last week!

to complete their bioinformatics analyses. Uncovering the secrets of parasites through Al and submitted across a broad spectrum of crit Cloud computing real world.

17 MARCH 202

Better plant quarantine enabled by Galaxy Australia's two millionth job

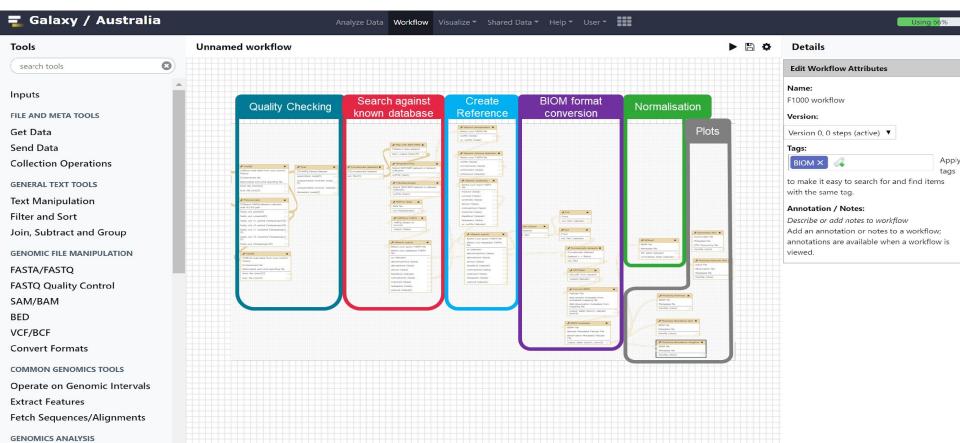
To celebrate the broad uptake and diversity of their users, Galaxy Australia took the opportunity to spotlight the researcher who





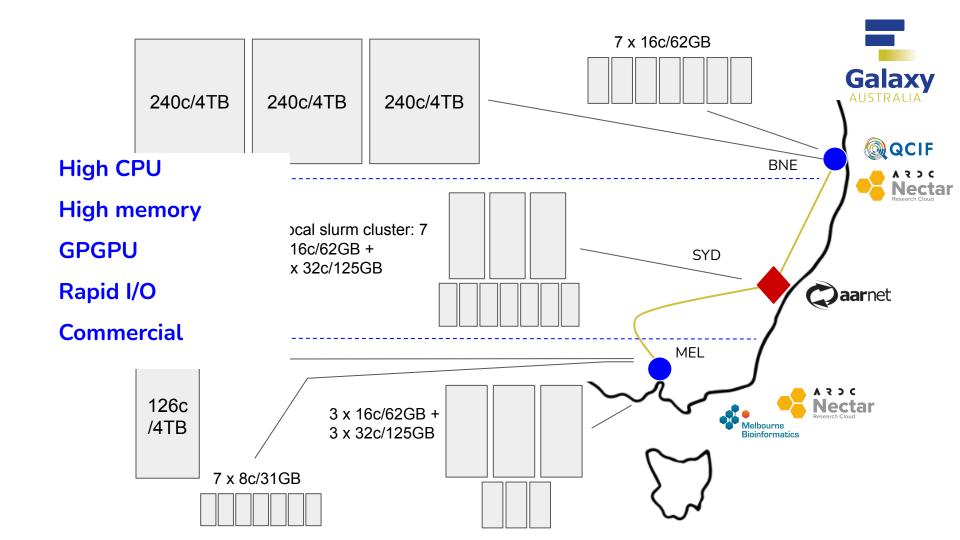


Efficiency through Galaxy controlled scheduling

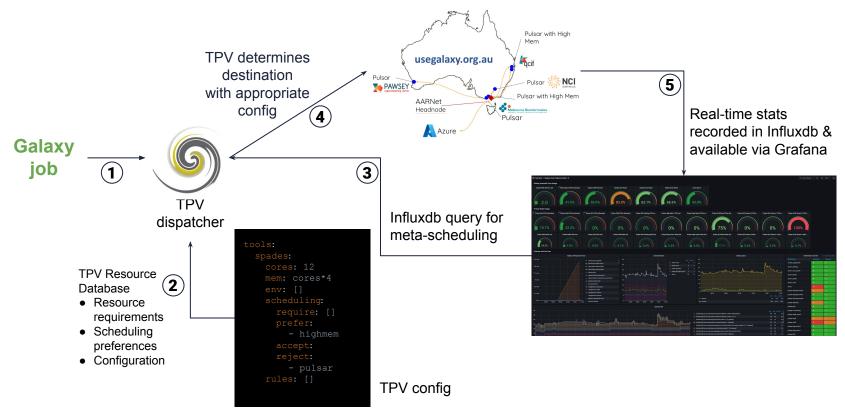


Galaxy Australia deployment | 2024





TPV Job Dispatch Process for Galaxy Australia





Galaxy Tools and References



Galaxy Tool Shed



- https://toolshed.g2.bx.psu.edu/
- 10,147 tools October 22nd 2024
- 51 different tool categories
- Tool Shed Wiki: https://galaxyproject.org/toolshed/

Galaxy References

- http://datacache.galaxyproject.org/
- 100's of reference genomes precomputed for rapid analysis
- Backed by the CernVM File System



Galaxy Australia Team





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