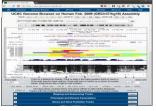
Building the Genomics Virtual Lab

Ron Horst, Uni QLD

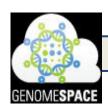
Analysis and visualisation platform















Community Resources

Australian Research Cloud

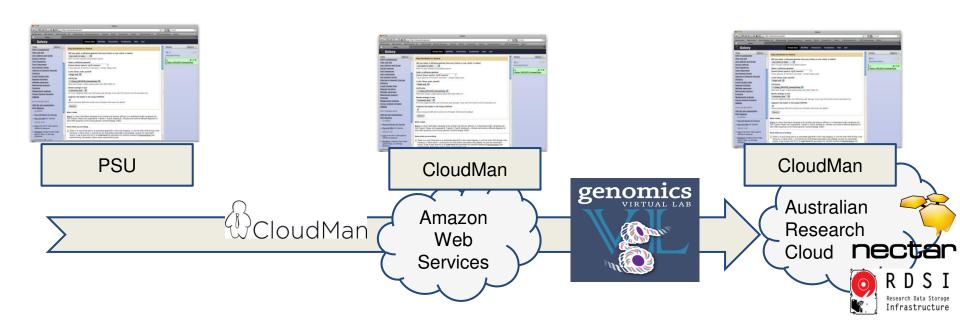




Agenda

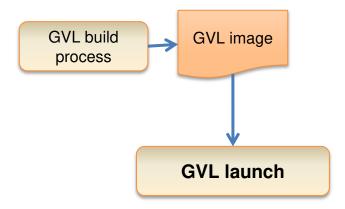
- GVL Objectives
 - –Scalable, on demand → Launch
 - –Latest tools, reproducible → Build Architecture
- Launch Challenges
- Build Challenges

GVL Project Objectives

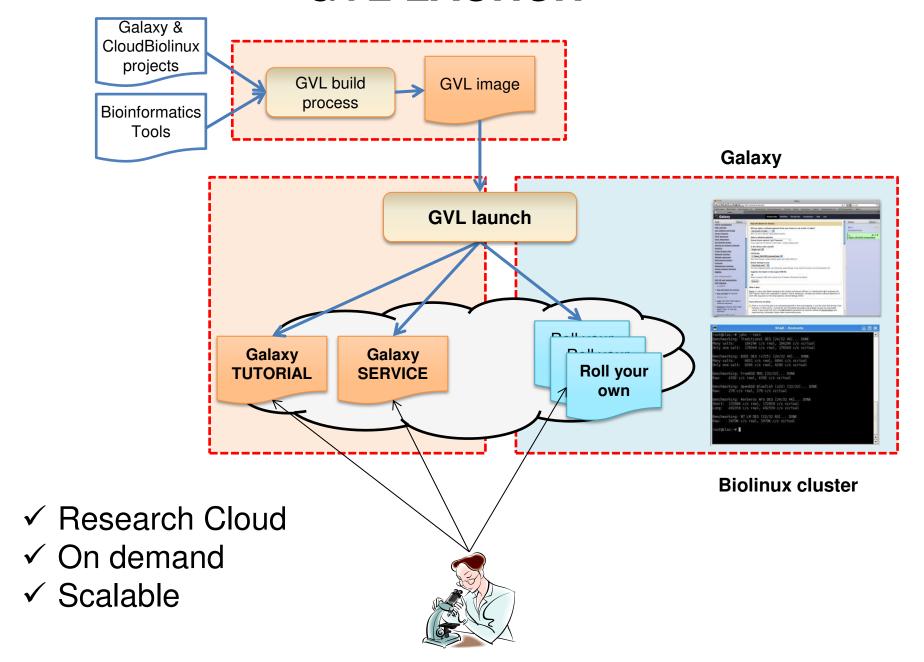


- Leverage Australian National Infrastructure
- On demand
- Scalable

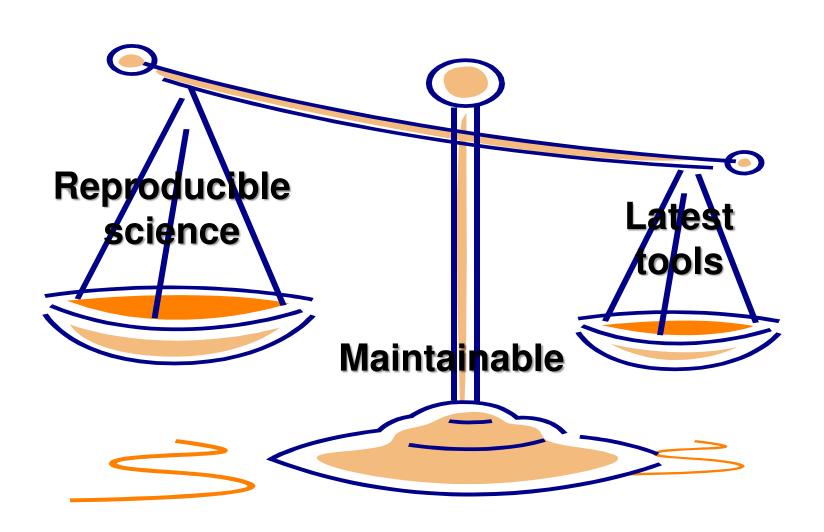
GVL LAUNCH



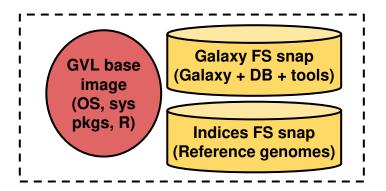
GVL LAUNCH



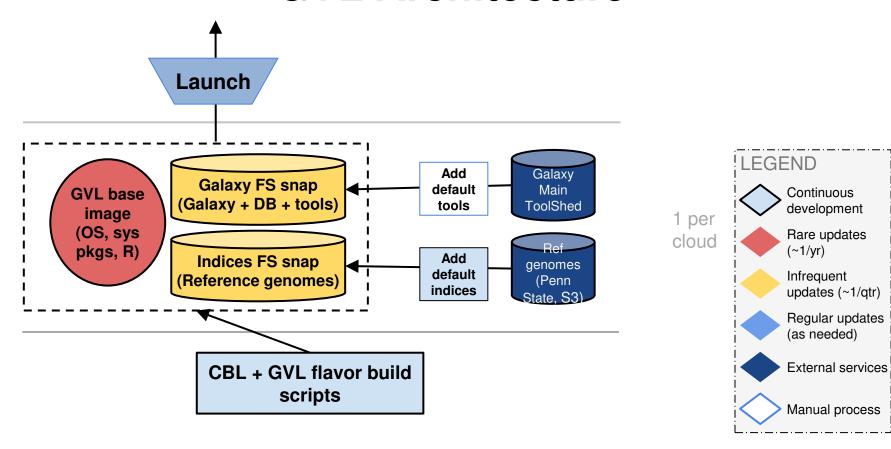
More GVL Objectives



GVL Architecture

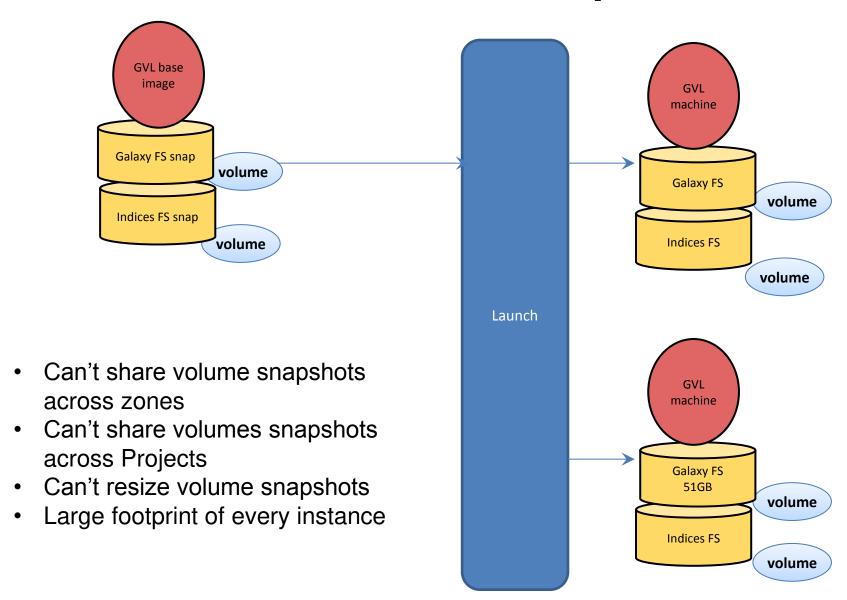


GVL Architecture

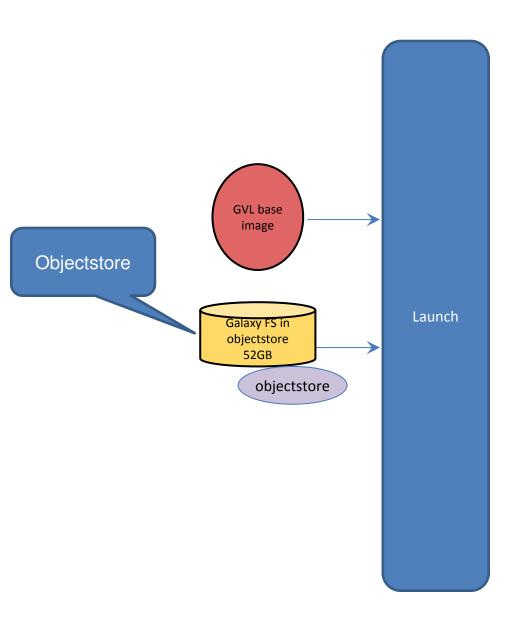


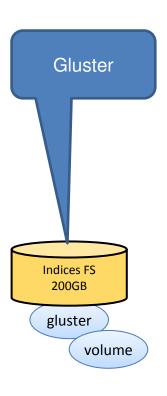
- ✓ Galaxy → Reproducible Science
- ✓ Toolshed → Latest Tools
- ✓ Architecture → Maintainable

GVL Launch process – v1

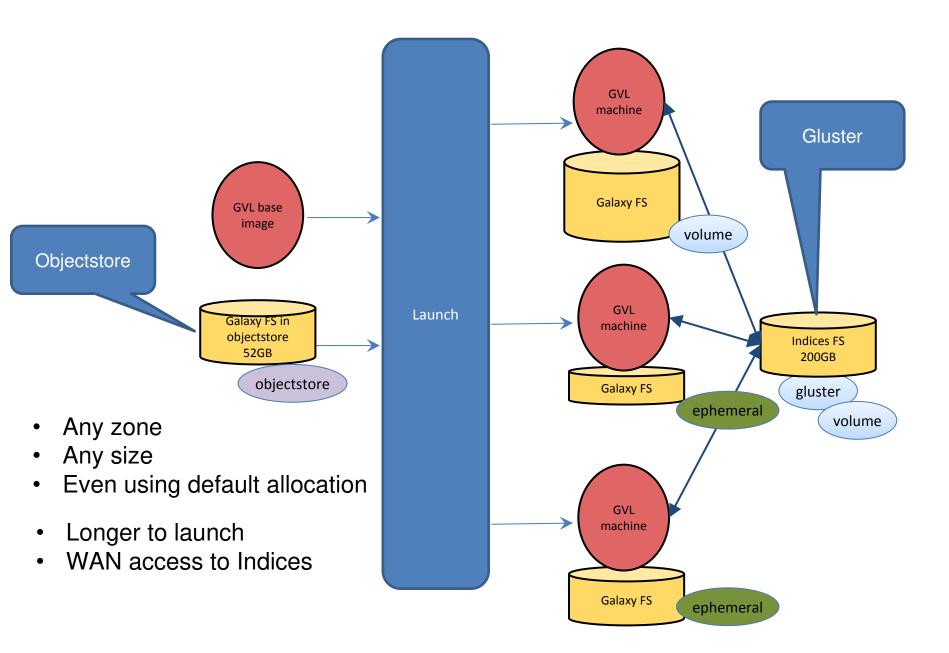


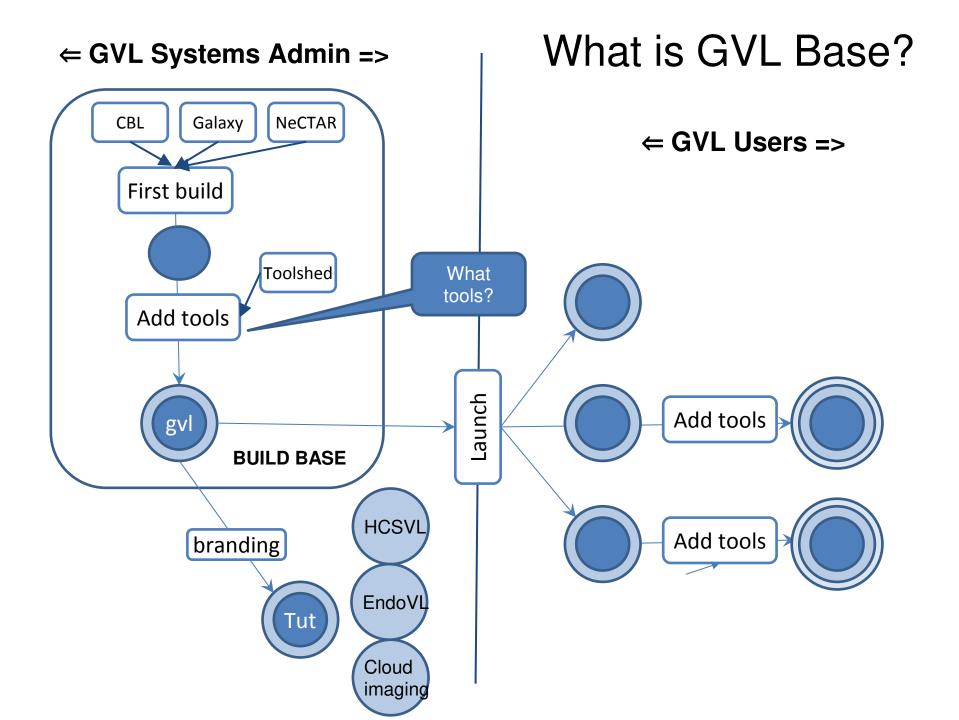
GVL Launch process – v2

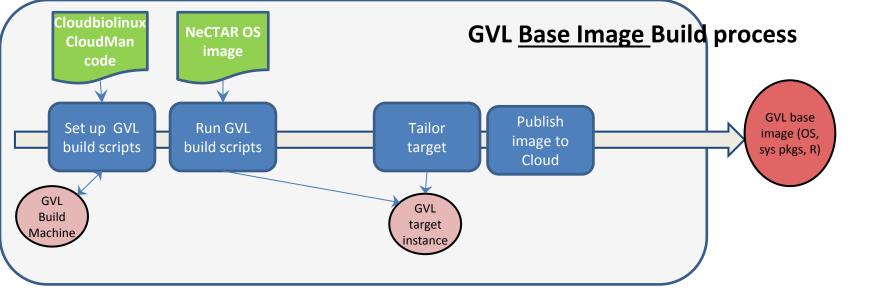


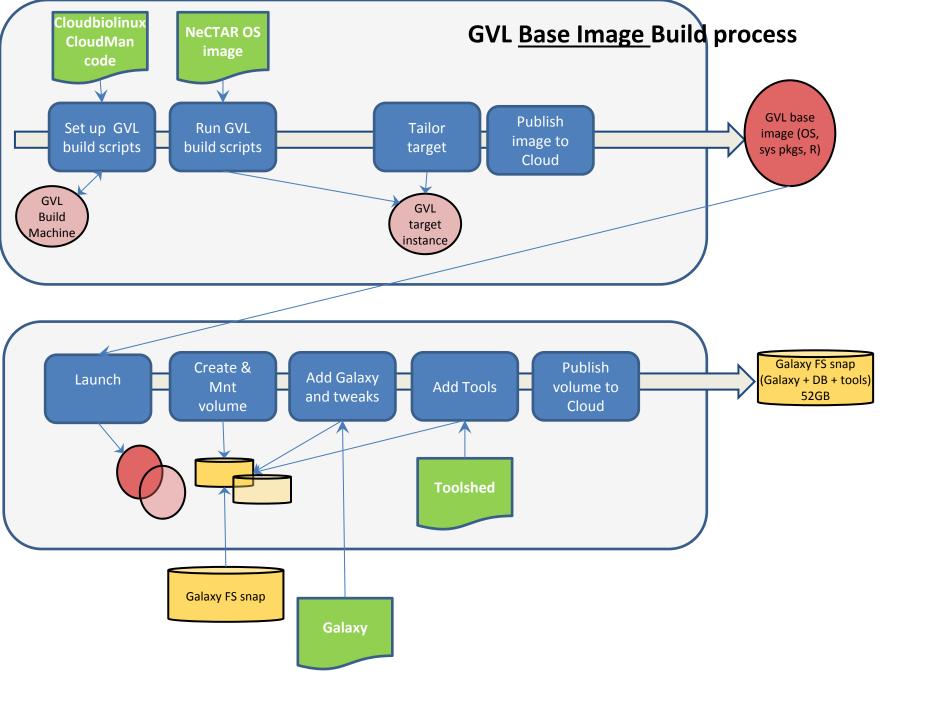


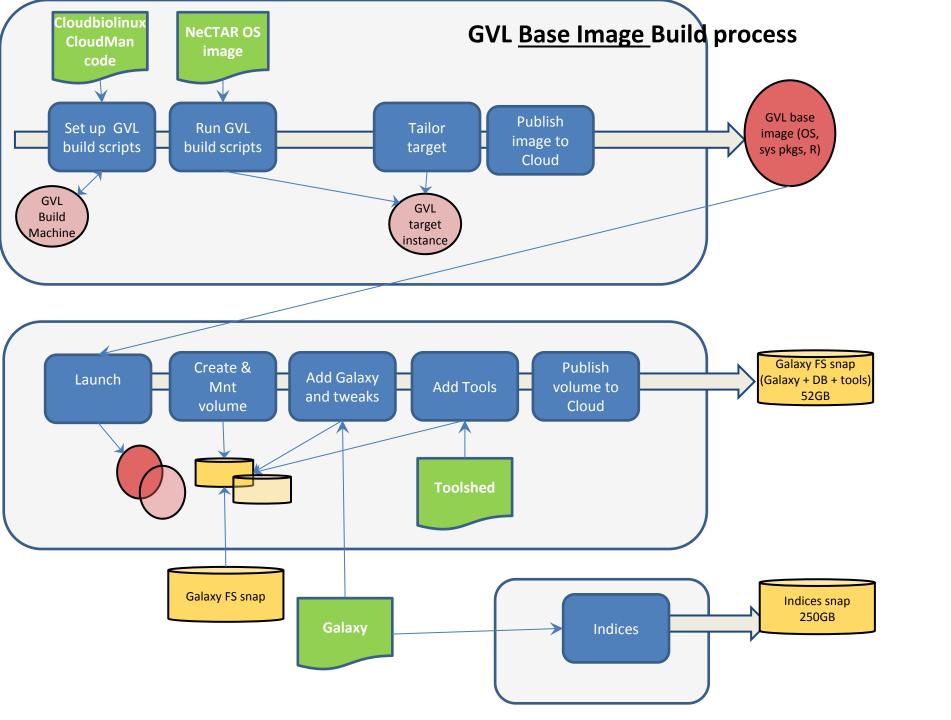
GVL Launch process – v2

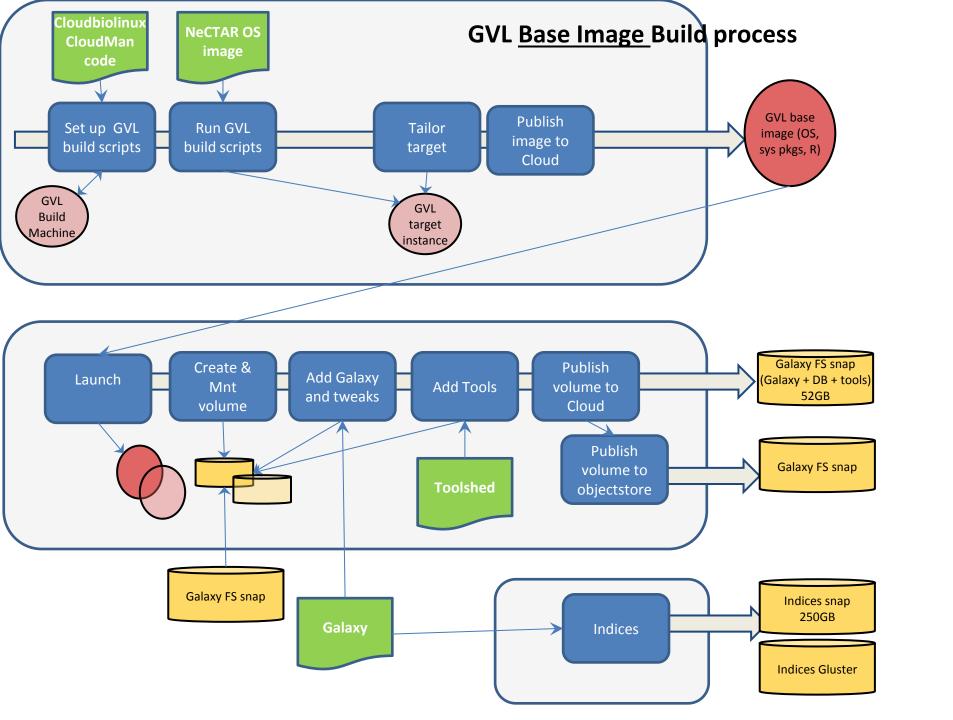




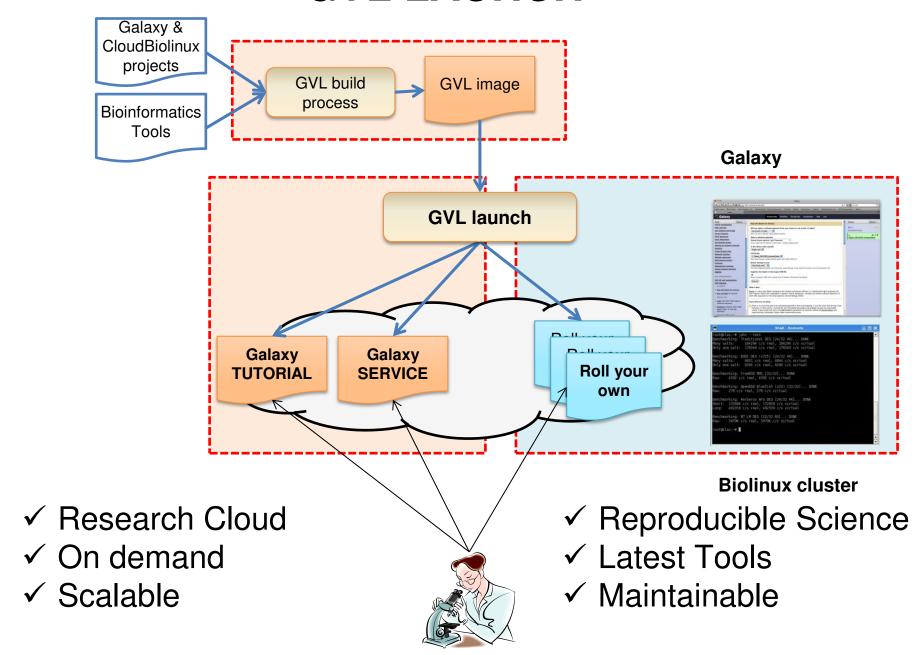








GVL LAUNCH

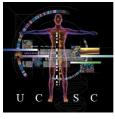




















Thank you







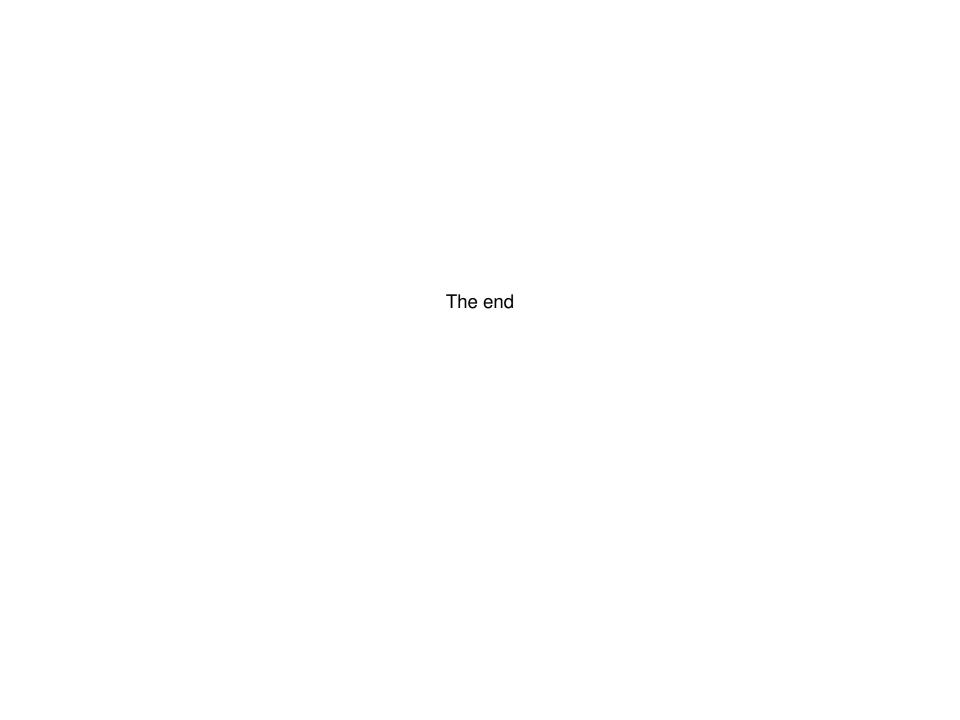




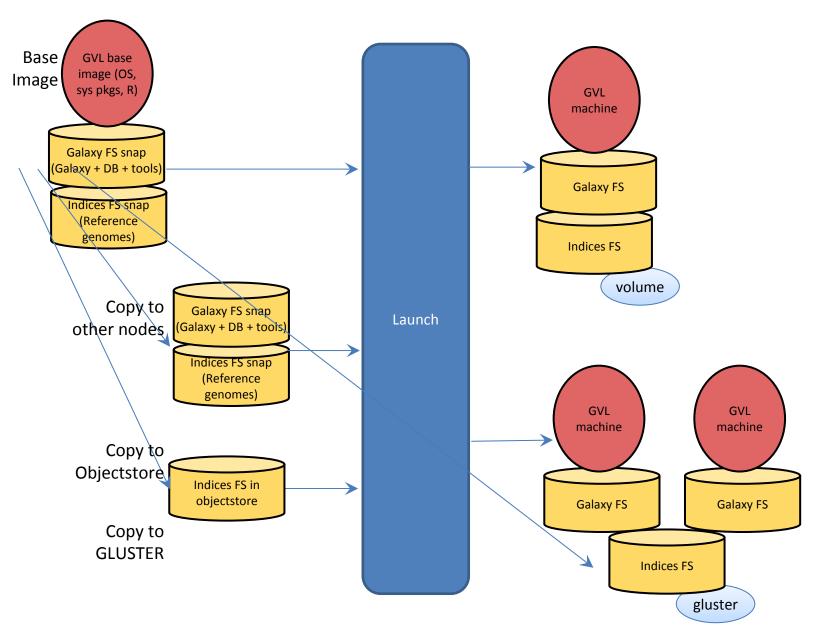






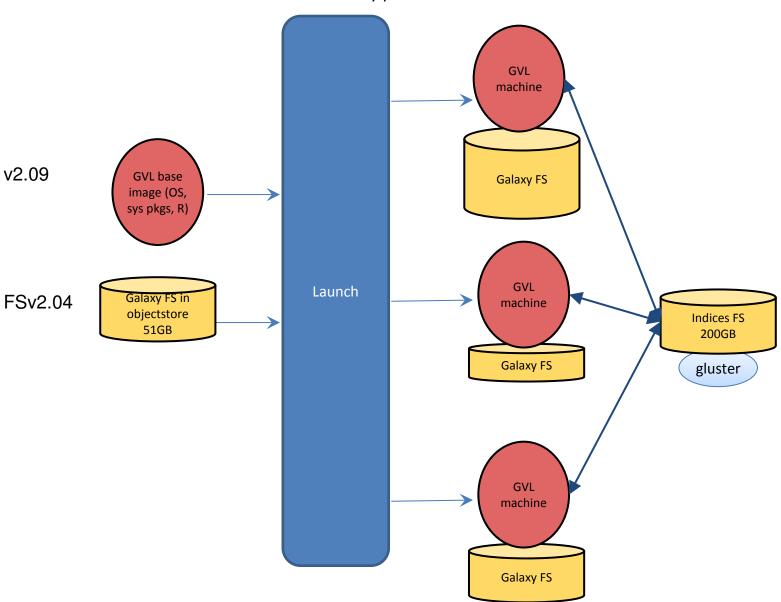


GVL Launch process



GVL Launch process - "NeCTAR (openstack)" option

Any NeCTAR project, any resizing of GalaxyFS
Any placement zone with Volumes



GVL Launch process - "NeCTAR melbourne dev" option

Must be GenomicsVL project, cannot resize GalaxyFS

