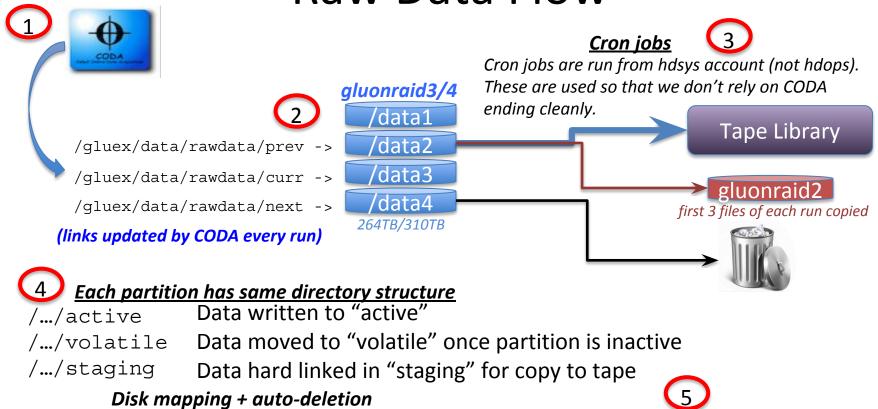
Hall-D Online Status



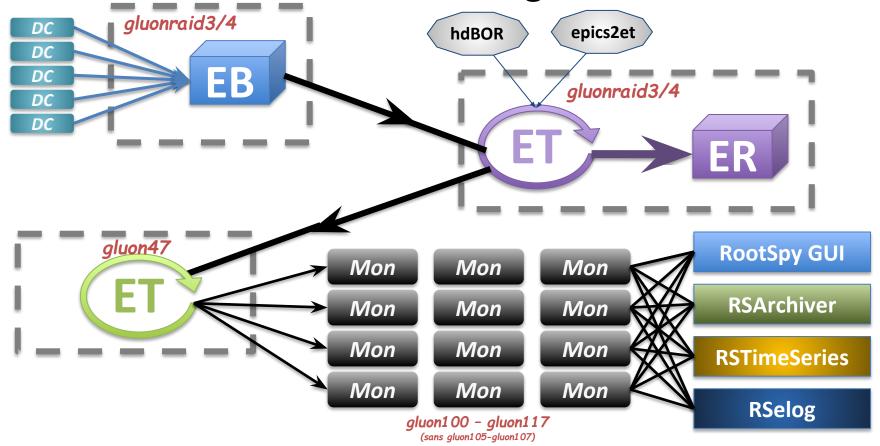
David Lawrence JLab May 14, 2019

Raw Data Flow



- Map only volatile directory
- Map only when data moved to volatile (via cron)
- Auto-delete files from volatile to ensure 20% is free

Hall-D Online Monitoring Architecture



Storage:

gluonraid1	77TB
gluonraid2	77TB
gluonraid3	264TB
gluonraid4	310TB
gluonwork	41TB
gluondaqfs	1.7TB
gluonfs1	4TB*

gluonraid4 @ high intensity:

310TB*0.80/(1.2GByte/s * 0.50 * 3600) = 114 hr = **4.8 days**

Upgrades:

- gluonfs1
 - Main file server for /home and software builds
 - snapshot backups
 - original warranty expired (3rd party in place)
 - 1Gbps network link
- Cisco router
 - 1Gbps blades
 - not energy efficient (drain on UPS)
 - replace with Arista similar to high speed ones
- farm nodes
 - Several tasked to online calibration (adding more this Fall)
 - 2 faster nodes re-assigned to DAQ

Activities To Complete Before Fall 2019 Run

- Test in-stream compression
- Implement plot checking robot
- RootSpy improvements
- Improve eLog interface
- Beam configuration sensitive Reference plots?
- Upgrade to RHEL7?