# SciOps + ENP April 2024

At right: Two NVIDIA A800 GPU Servers, front view with fans and NVMe storage



**Bryan Hess** 

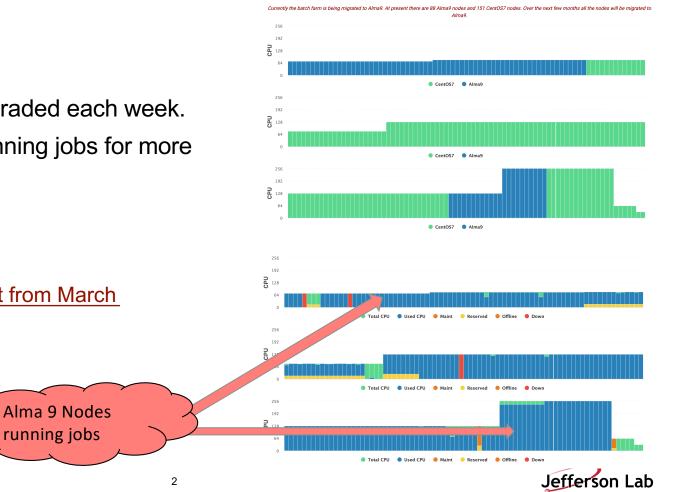
Monday, April 1, 2024





## **Alma9 Transition Status**

- 33% of job slots
- 38% of nodes
- A new set of nodes is upgraded each week.
- Alma9 Nodes are now running jobs for more than one group
- Knowledge Base Articles
  - Using EL9 Farm Nodes
  - EL9 Known Issues
  - Upgrade Announcement from March



#### Alma9 Miscellaneous Topics

• /tmp is mounted noexec; We now use /scratch for \$TMPDIR, which is larger

bhess@ifarm180302 ~ \$ echo \$TMPDIR /scratch/bhess

• Some .cshrc files have failed on Alma9 because of the non-existence of /apps or /site. There are work-arounds for this. One example:

if ( -e /site/env/syscshrc ) then source /site/env/syscshrc endif



#### **Farm-Local Home directory Option**

- Can be requested on a per-user basis (opt-in) for early access
- Helpful for cases where more quota is needed (e.g. Jupyter Users, pip installs, etc.)
- Starting Quota is 25GB
- Farm-Local /home will not be cross-mounted on other systems
- Path is /farm/home/<username>
- Both /farm/home or CUE /u/home:
  - -Are backed up
  - Include .snapshot directories
  - Are not for high I/O loads from many farm nodes at one (use Lustre /volatile or /cache)



### **Hardware Deployment Updates**

- Two ifarm Nodes have been ordered. Delivery expected this month
  - Same CPUs as farm23 nodes
  - much larger local /scratch area
  - these will become ifarm2401 and ifarm2401 running Alma9
  - The other farm nodes will be retired when the last CentOS 7 farm node is retired.
- Two new GPU nodes (with NVIDIA A800 GPUs)
  - Systems are racked up. Being networked and built.
- Lustre 24 Installation
  - All Hardware on site, racked up, networked, and powered.
  - Initial installation and configuration pass completed.
  - Performance benchmarking underway
- NVMe storage evaluation [No status change queued behind other work]





## code.jlab.org - Status

- Awaiting Cybersecurity review for off-site access
- Accepting early access users
- We are watching the back-end storage needs to see what the growth looks like
- Please let us know what can be clarified.





• Other Topics?

