# High Performance Computing open forum

#### Host

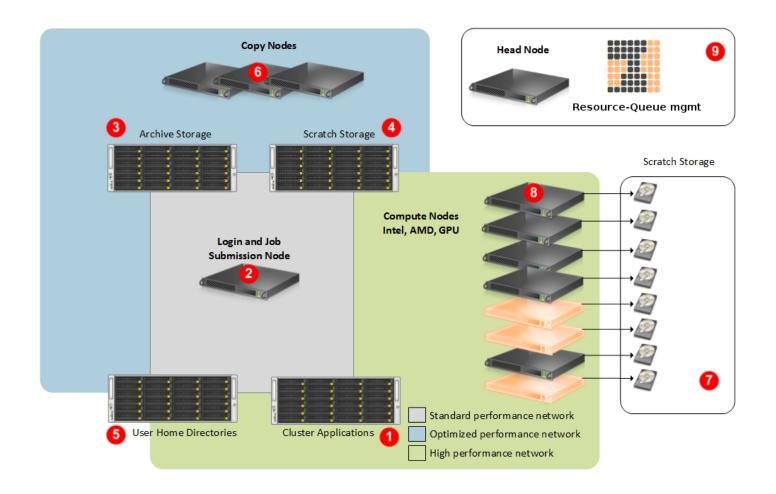
Lawrence Kearney
Georgia Advanced Computing
Resource Centre (GACRC)
The University of Georgia (USA)
Ikearney@uga.edu

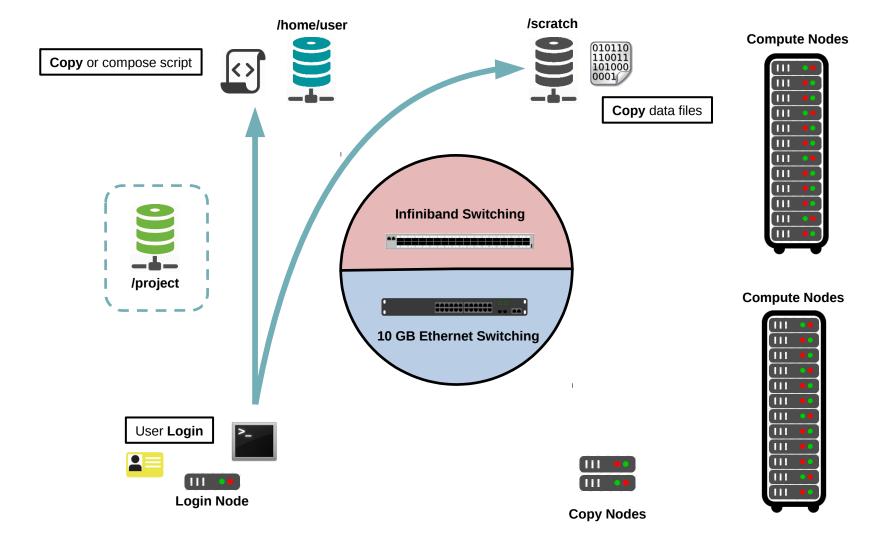
#### **SUSE Panel**

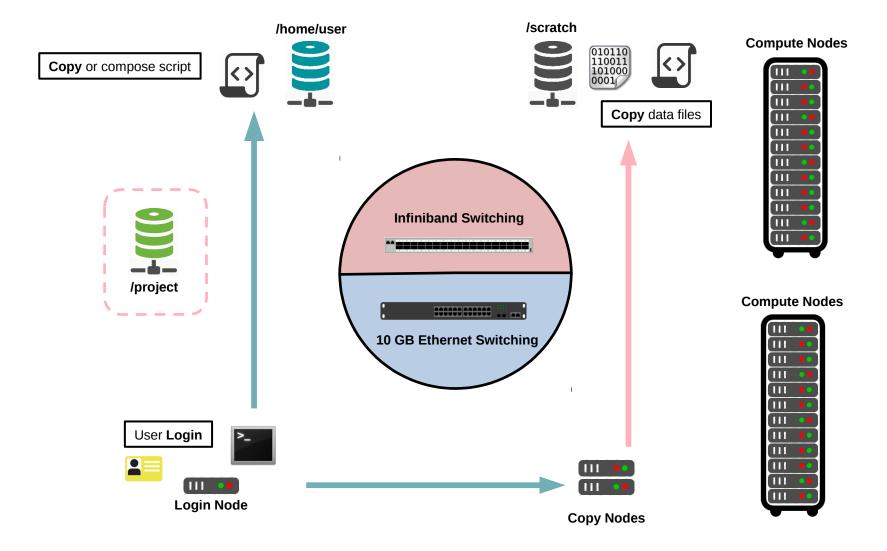
Kai Dupke (Sr. Product Mgr.) Vojtech Pavlik (SUSE Lab Dir.) SUSE Resource 3? SUSE Resource 4?

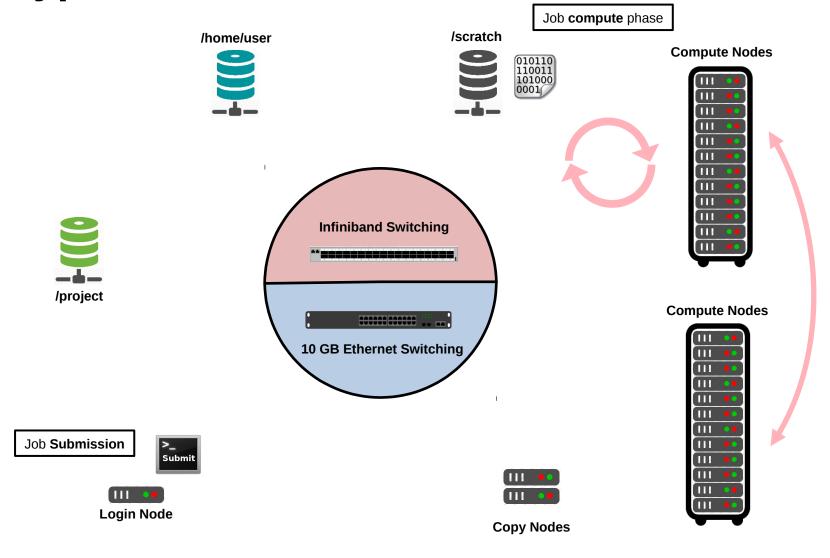


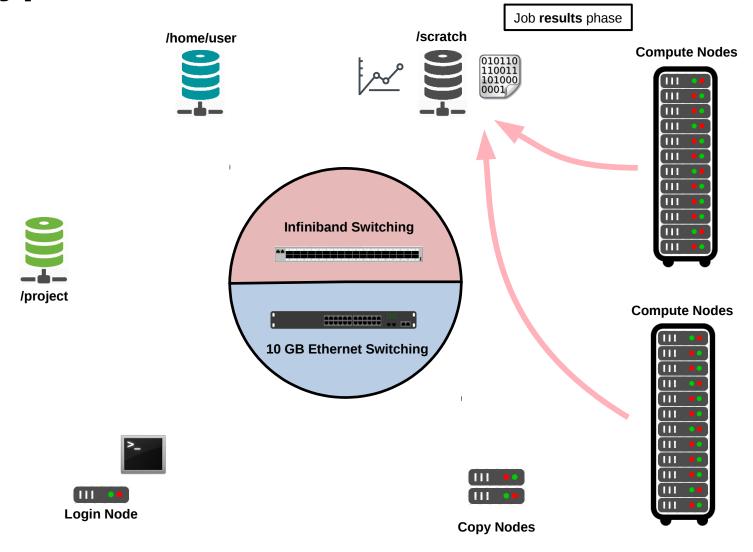
## A typical cluster

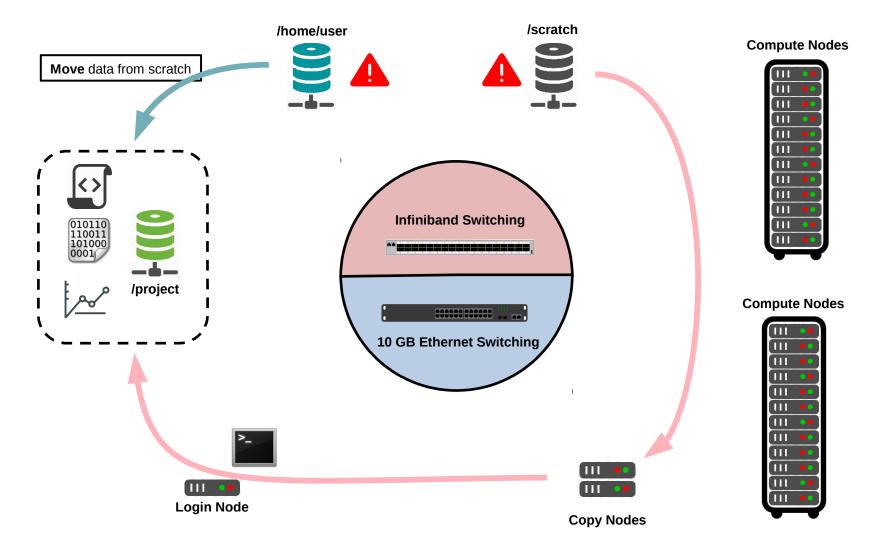












Typical system components

Login nodes

Data transfer (copy) nodes

Head nodes

Compute nodes and resources

Software build nodes

Does virtualisation help?

Parallelism where ever possible

File systems

File transfer at edge systems

Computing workloads (job types, HPC, HTC)

Extended process table space

Platform software components

**Operating Systems** 

Configuration management

Application deployment and management

Backup service and scope

Cluster software

Resource management

Queue management

Because the storage needs are enormous

Hardware management

Software management

File systems

**Protocols** 

Auto-mounter use

Networking

Policy enforcement

Archive versus backup services



**Corporate Headquarters** 

Maxfeldstrasse 5 90409 Nuremberg Germany +49 911 740 53 0 (Worldwide)

www.suse.com

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