

# High Performance Computing open forum

## Host

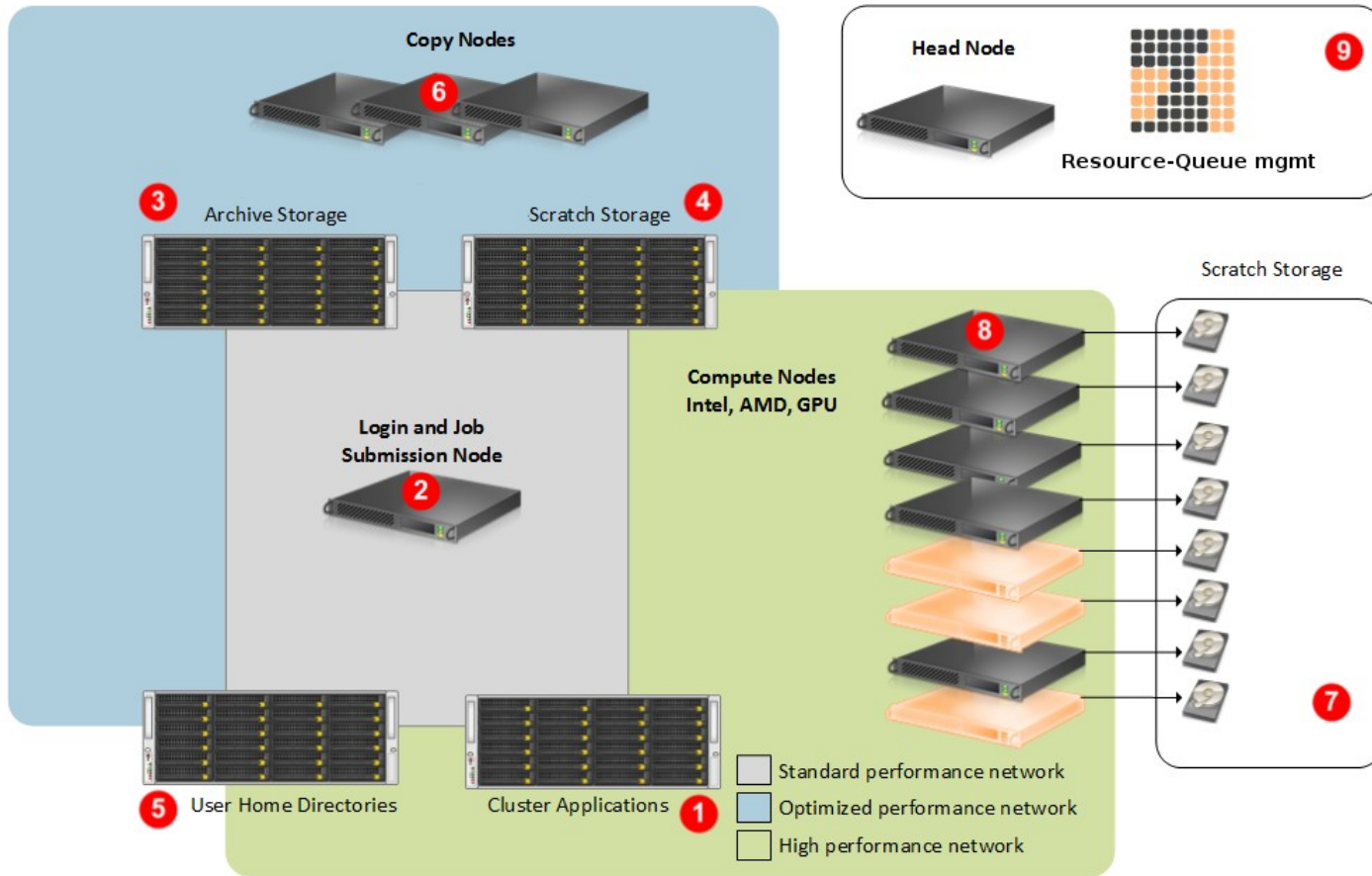
Lawrence Kearney  
Georgia Advanced Computing  
Resource Centre (GACRC)  
The University of Georgia (USA)  
[lkearney@uga.edu](mailto:lkearney@uga.edu)

## SUSE Panel

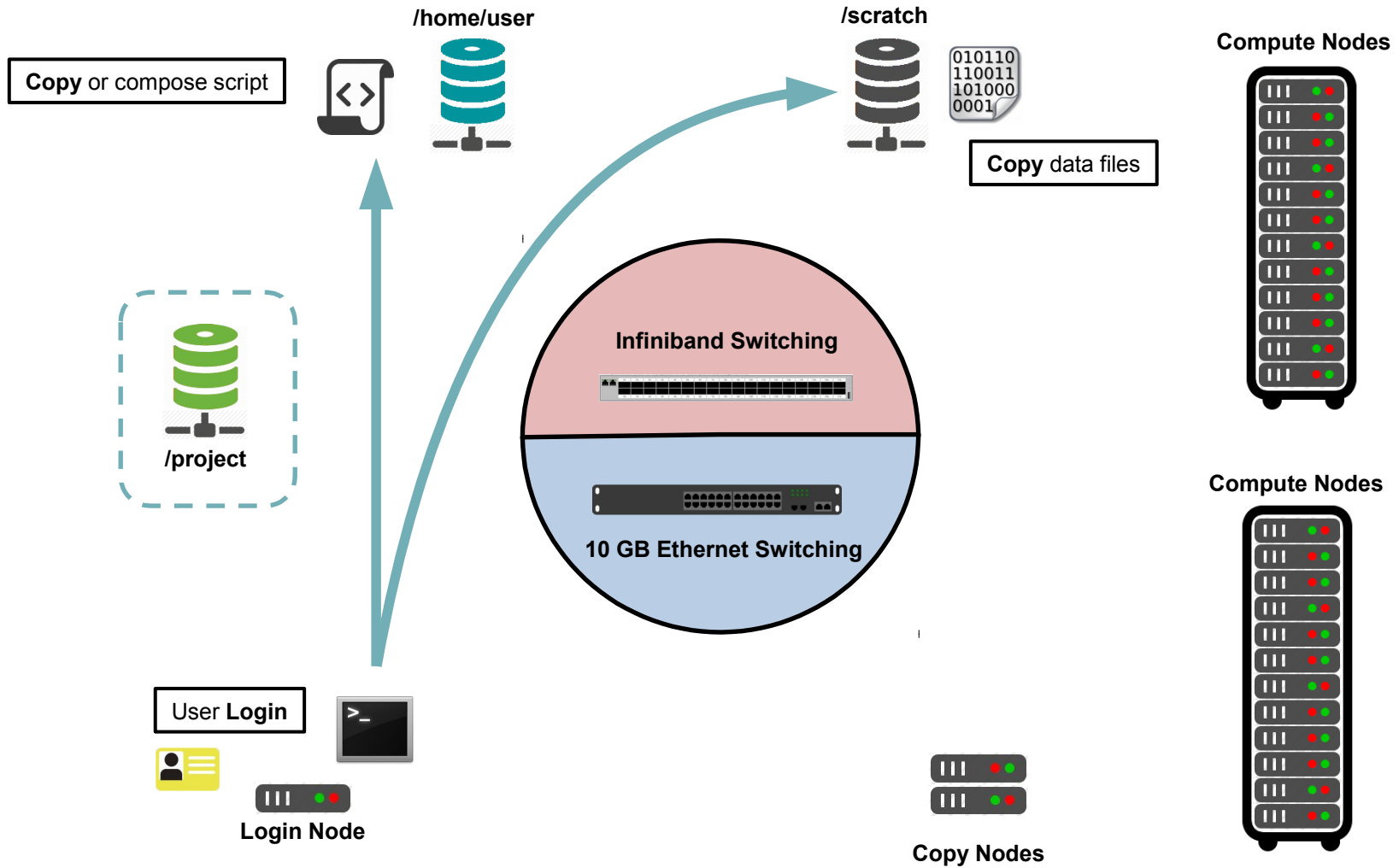
Kai Dupke (Sr. Product Mgr.)  
Vojtech Pavlik (SUSE Lab Dir.)  
Mike Friesenegger  
Bryan Gartner



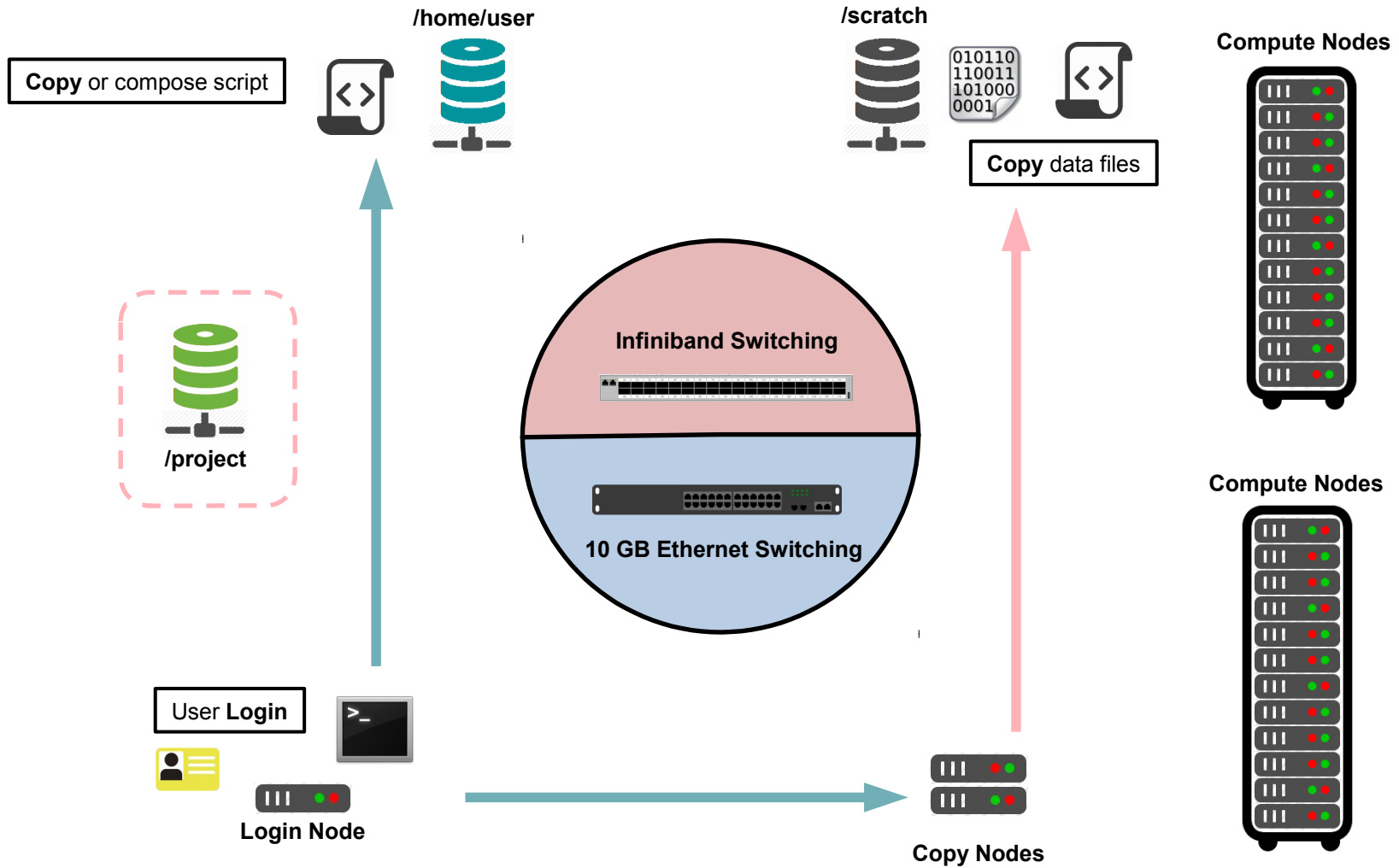
# A typical cluster



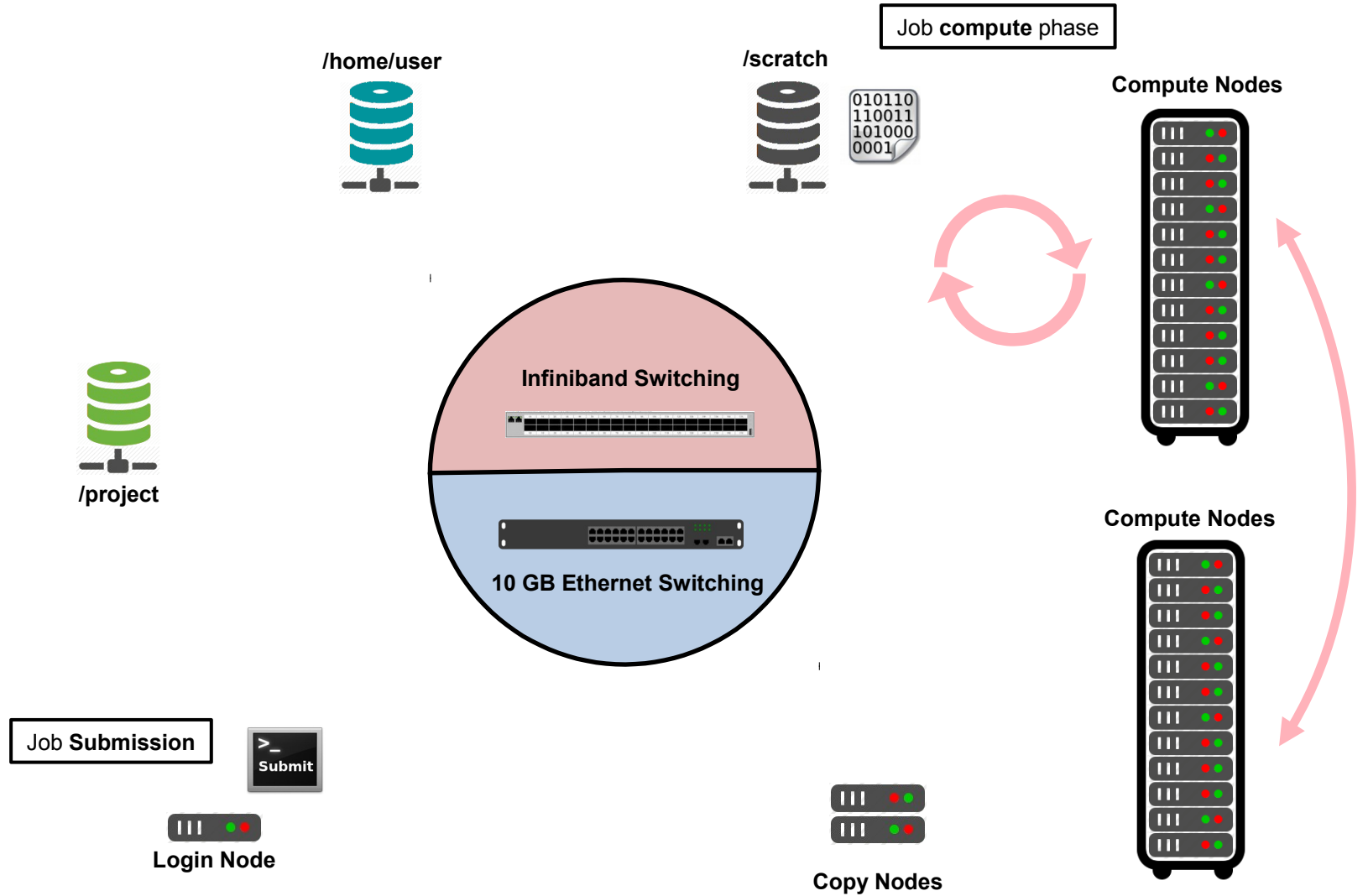
# Typical HPC work flow



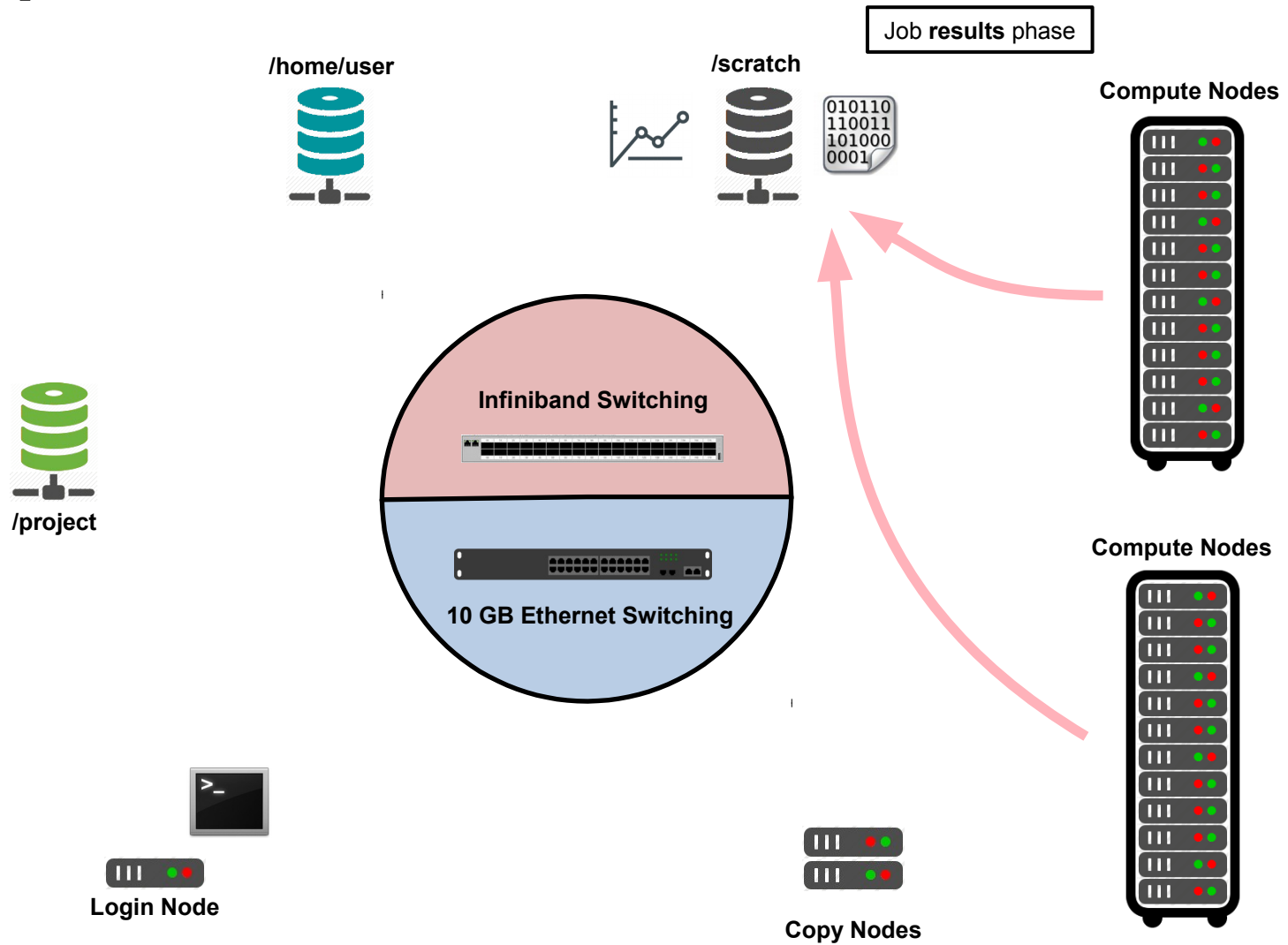
# Typical HPC work flow



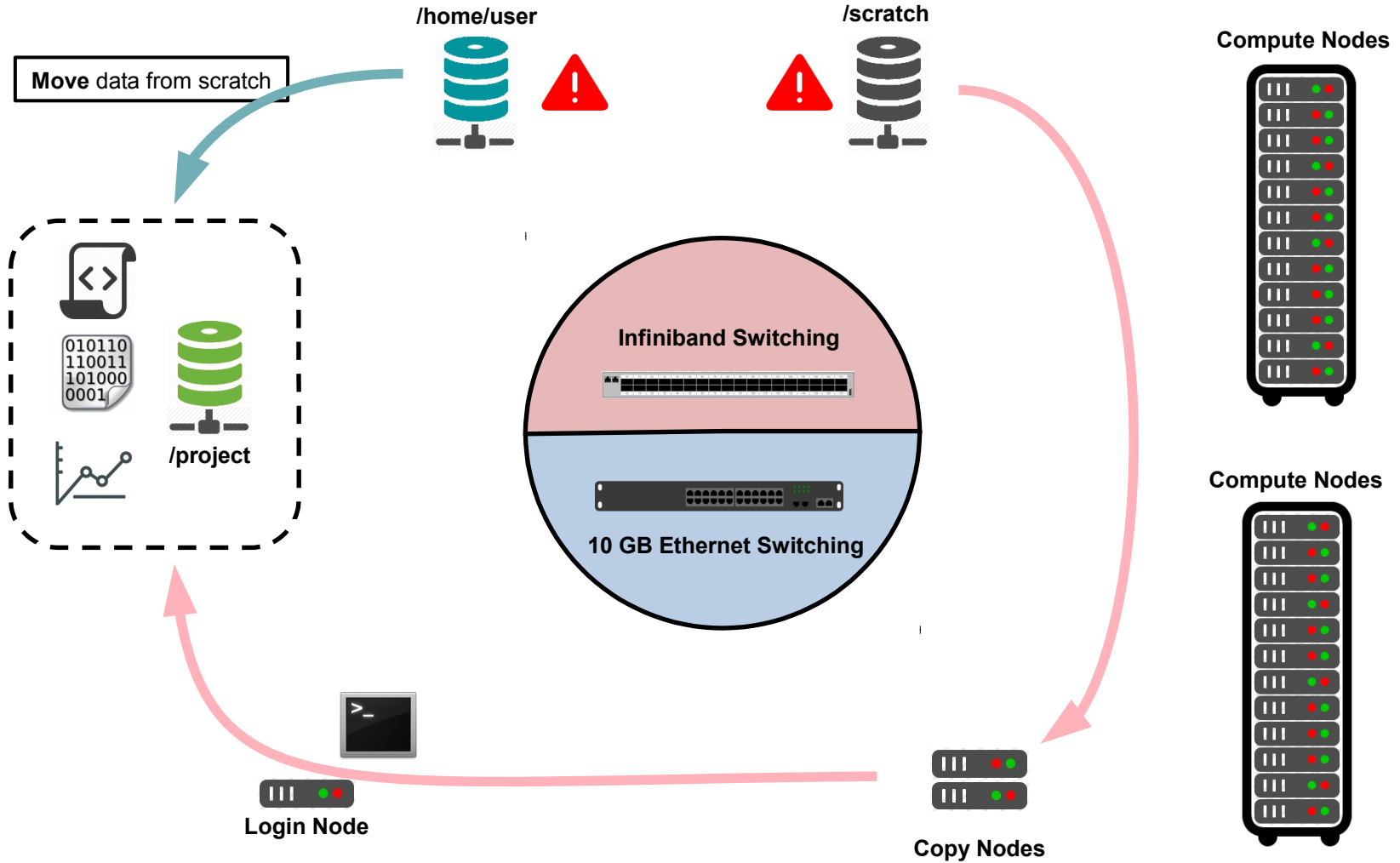
# Typical HPC work flow



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# Infrastructure discussion points

## Typical system components

Login nodes

Data transfer (copy) nodes

Head nodes

Compute nodes and resources

Software build nodes

Does virtualisation help?



# Infrastructure discussion points

Parallelism where ever possible

File systems

File transfer at edge systems

Computing workloads (job types, HPC, HTC)

Extended process table space

# Infrastructure discussion points

## Platform software components

Operating Systems

Configuration management

Application deployment and management

Backup service and scope

Cluster software

Resource management

Queue management

# Infrastructure discussion points

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](http://www.suse.com)

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