



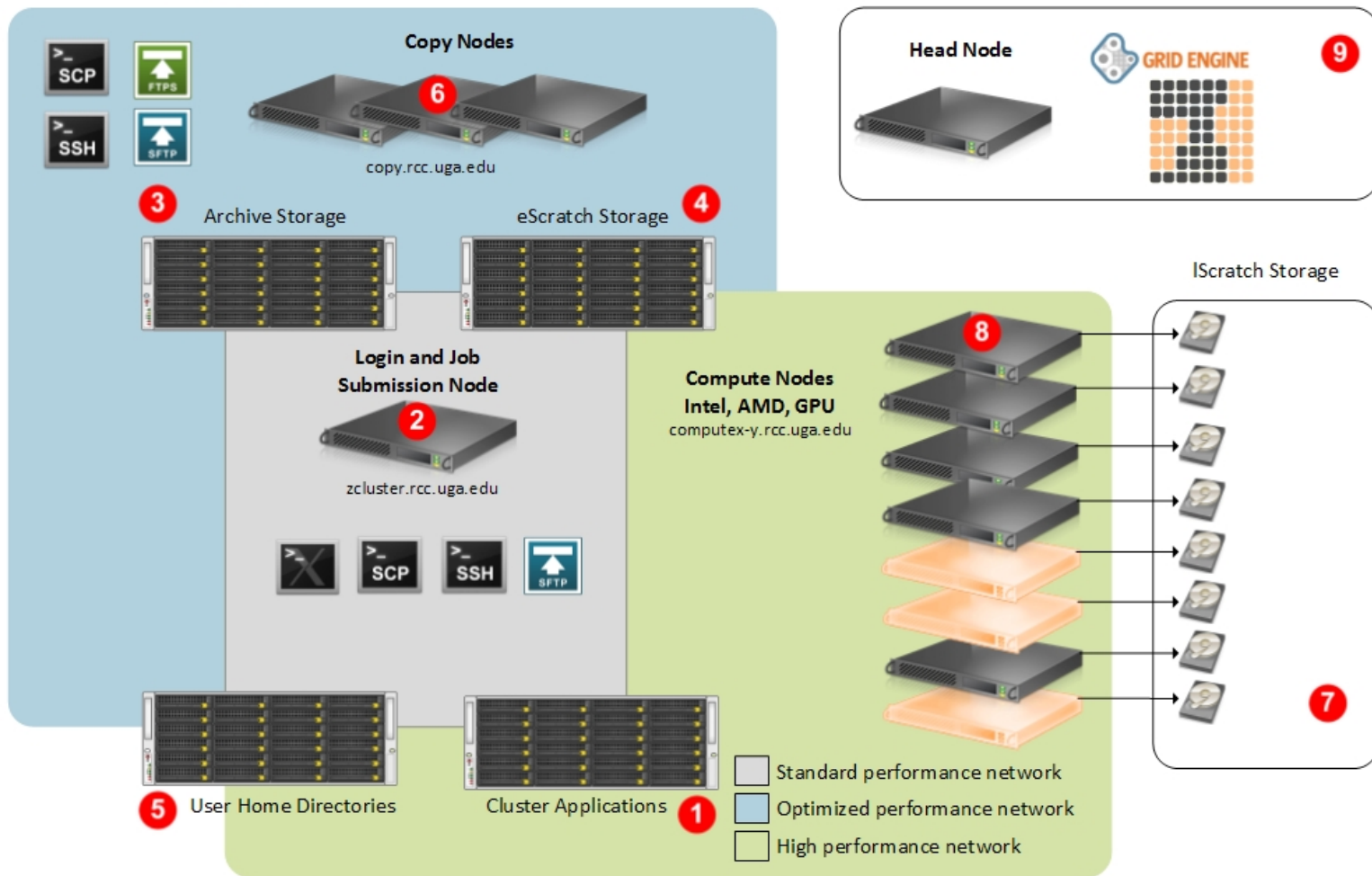
Technology Transfer Partners

The things High Performance Computing
cannot be bothered with

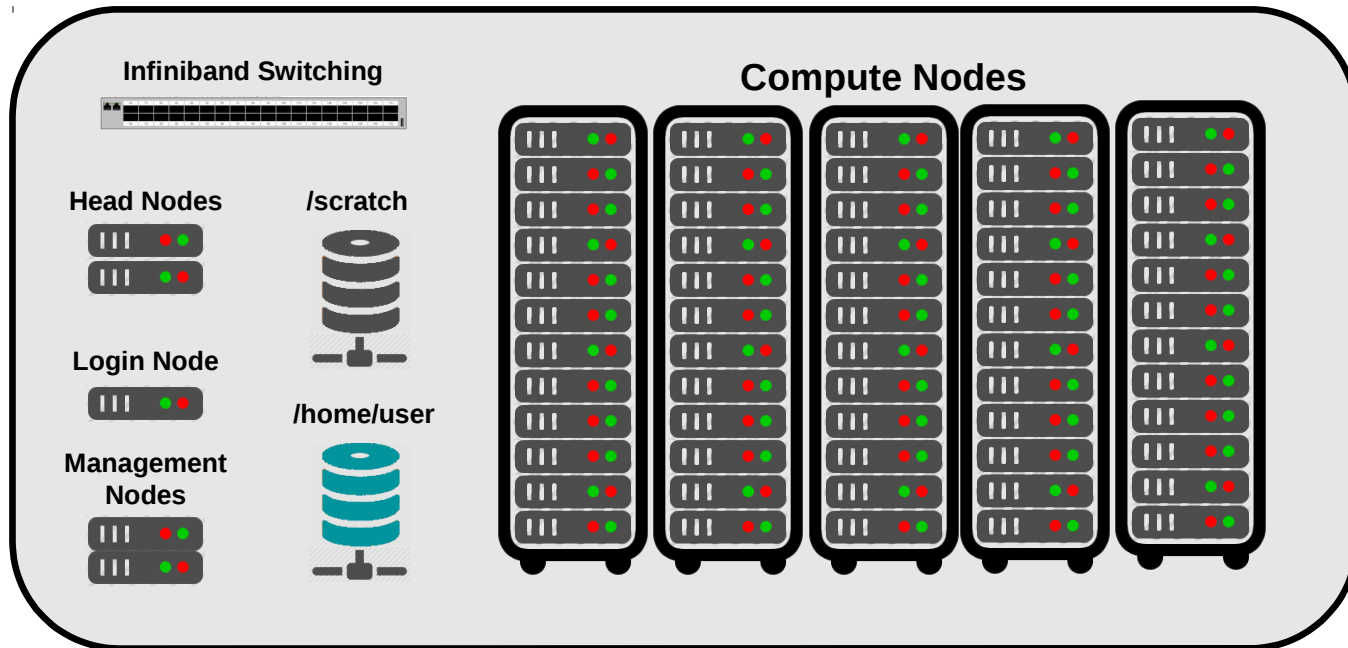
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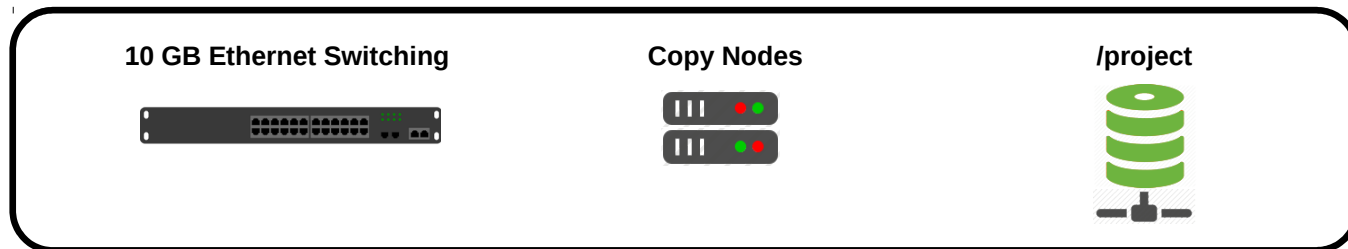
GACRC zCluster



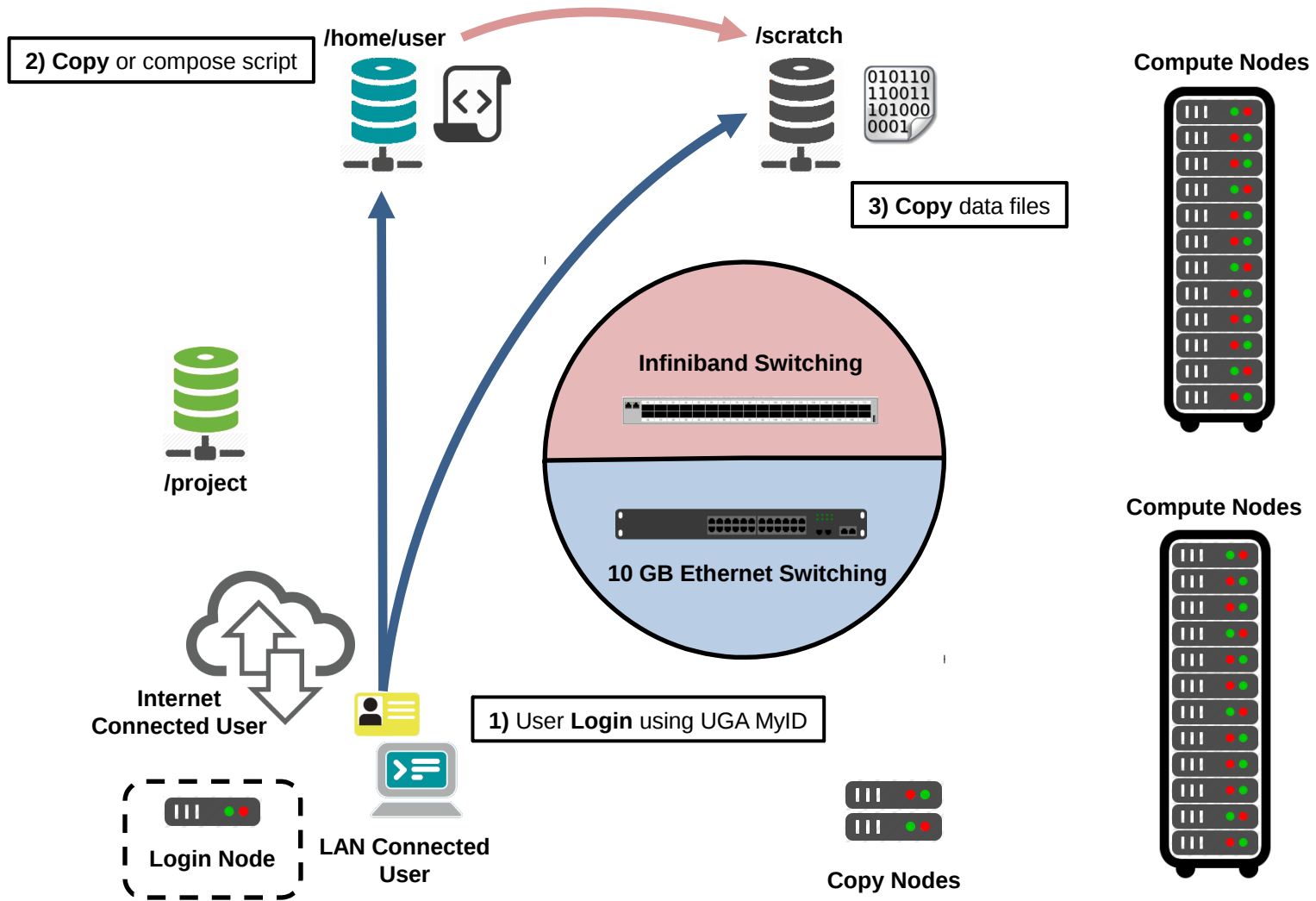
Sapelo Cluster Components



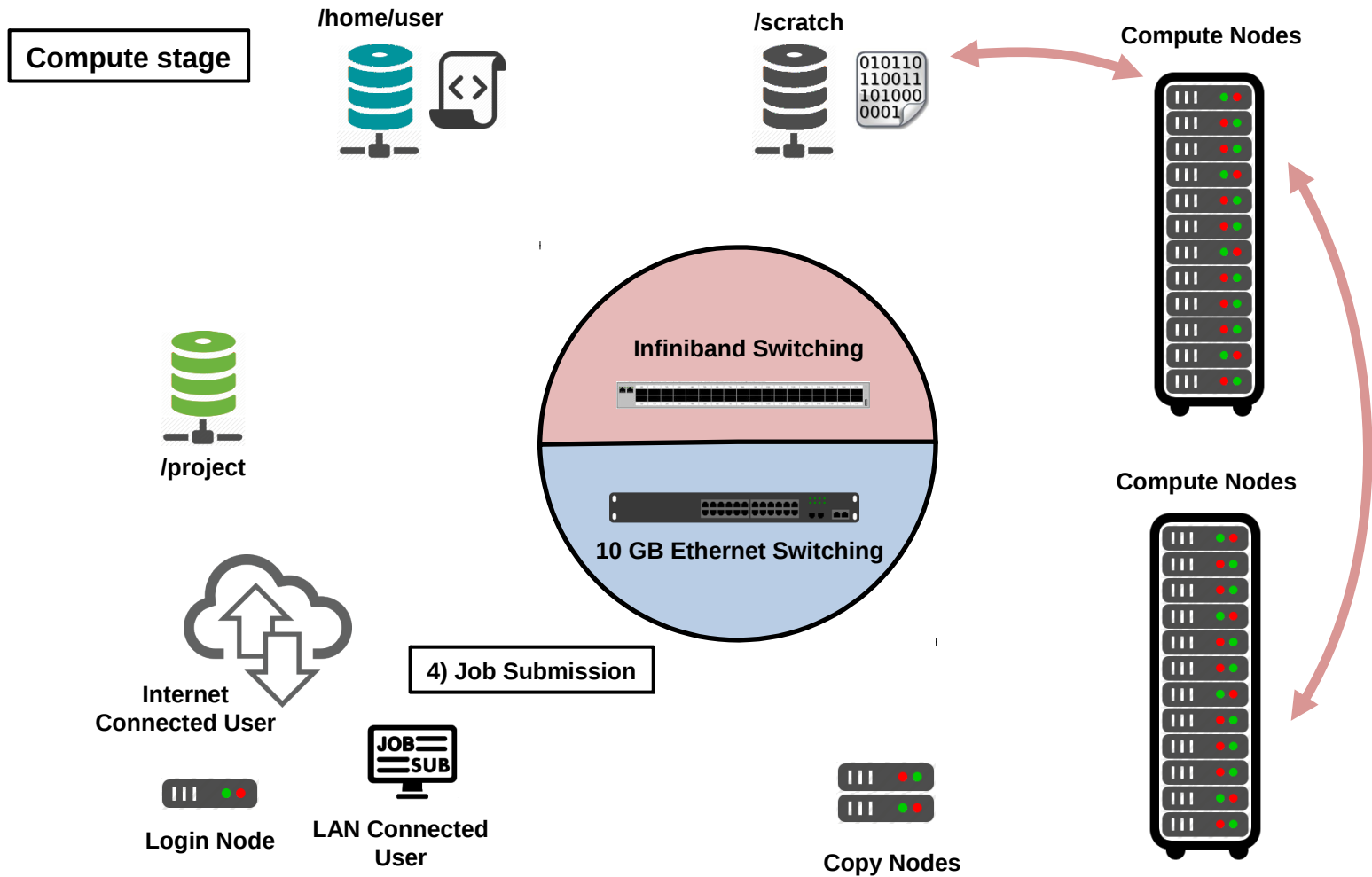
Sapelo Cluster Support Components



Typical HPC cluster work flow

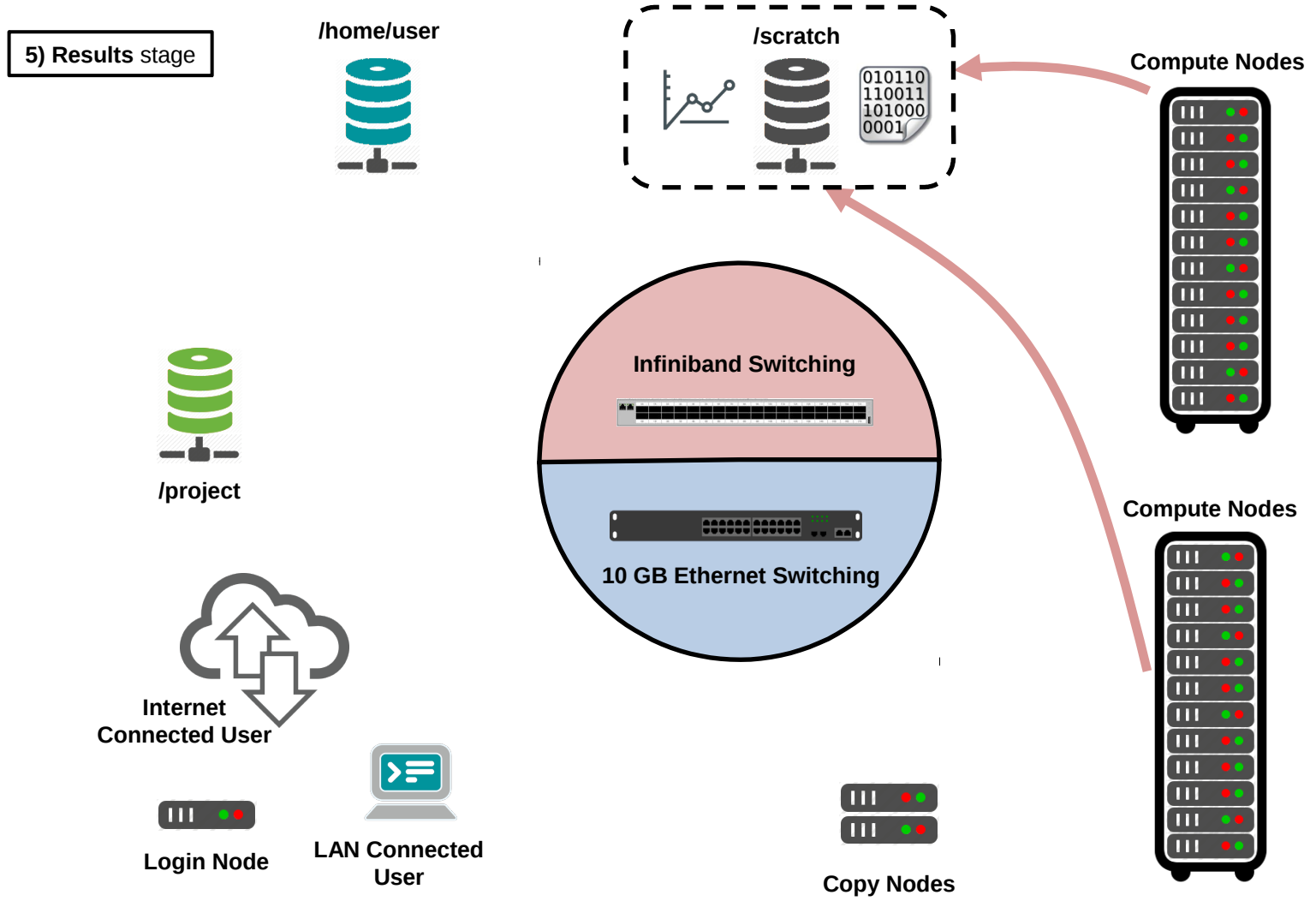


Typical HPC cluster work flow



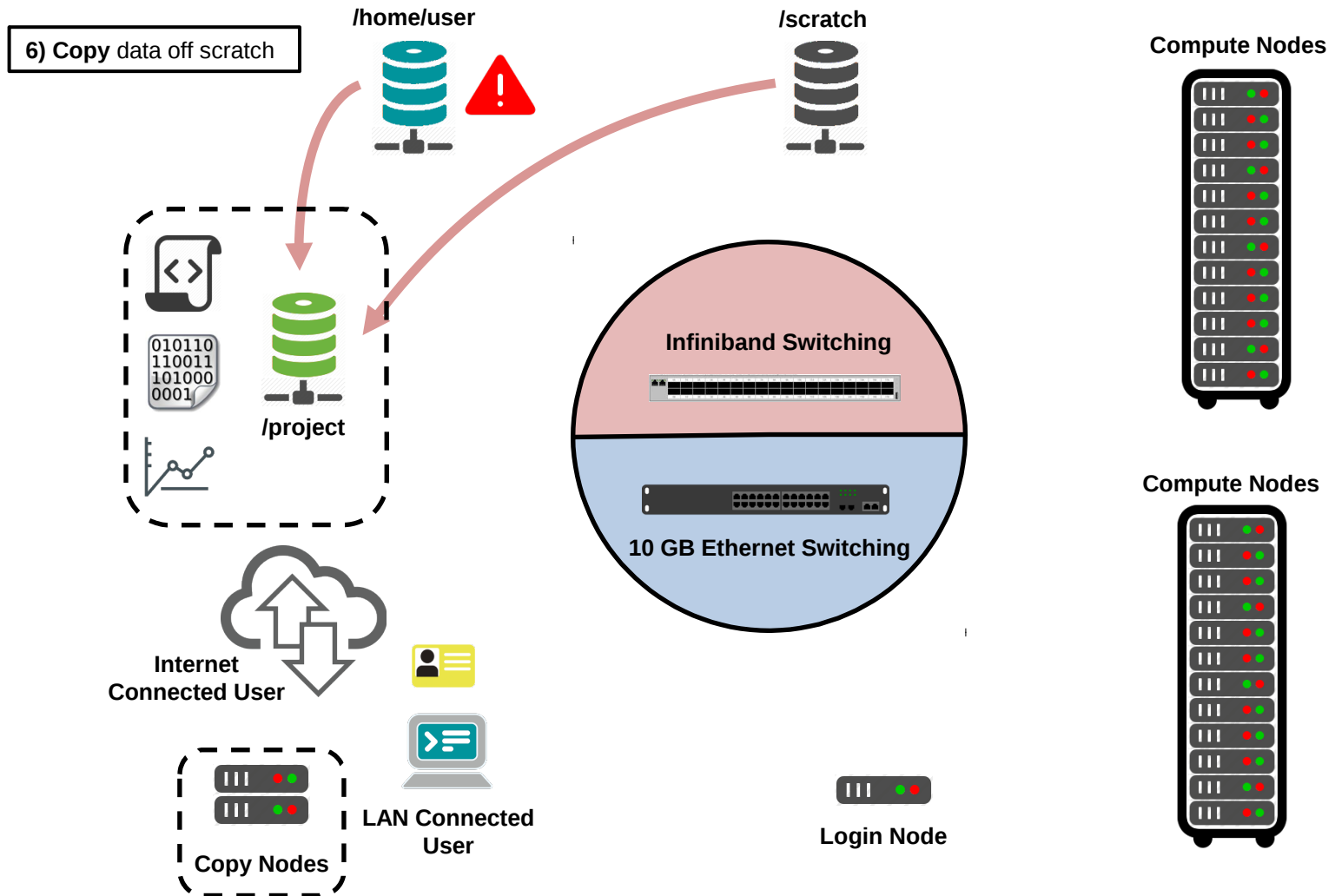
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Typical HPC cluster work flow



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Typical HPC cluster work flow



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Typical system components

Login nodes

Data transfer nodes

Head nodes

Compute nodes

Build nodes

Parallelism where ever possible

File systems

File transfer

Computing workloads (job types, HPC, HTC)

Extended process table space

Typical services

High speed networking (10 GB and infiniband)

LDAP/ directory service integration

Alerts and monitoring

Data life cycling

Backup and restoration

Configuration management

Platform software components

Operating Systems

Cluster software

Resource management

Queuing

Because the storage needs are enormous

Hardware management

Software management

File systems

Protocols

Networking

Policy enforcement

Questions

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