

What is MySQL Cluster Good For?

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The Pythian Group

- www.pythian.com
- Remote Database Management
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Why Was Cluster Developed?

- Telecom
- Lots of small simple writes
- In memory



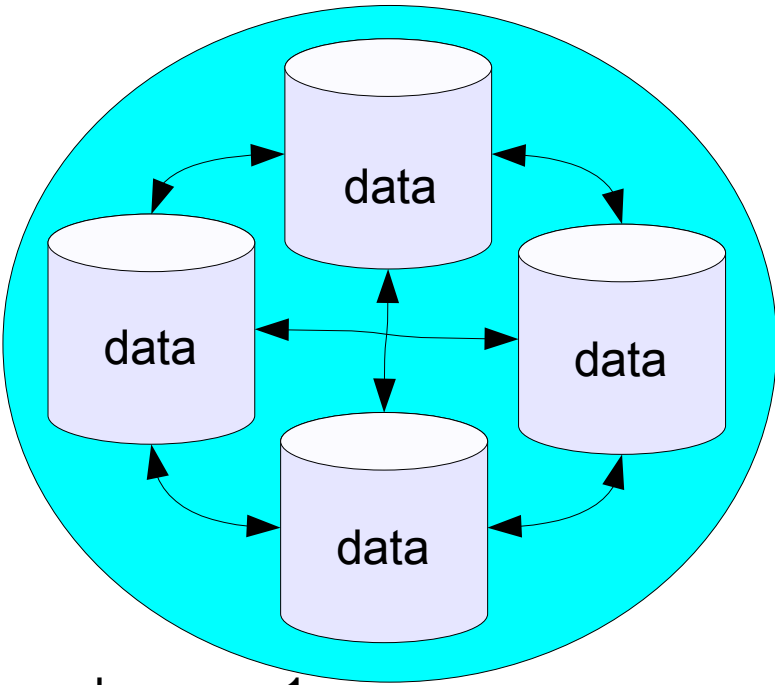
I Have No Experience Using Disk-Based Cluster



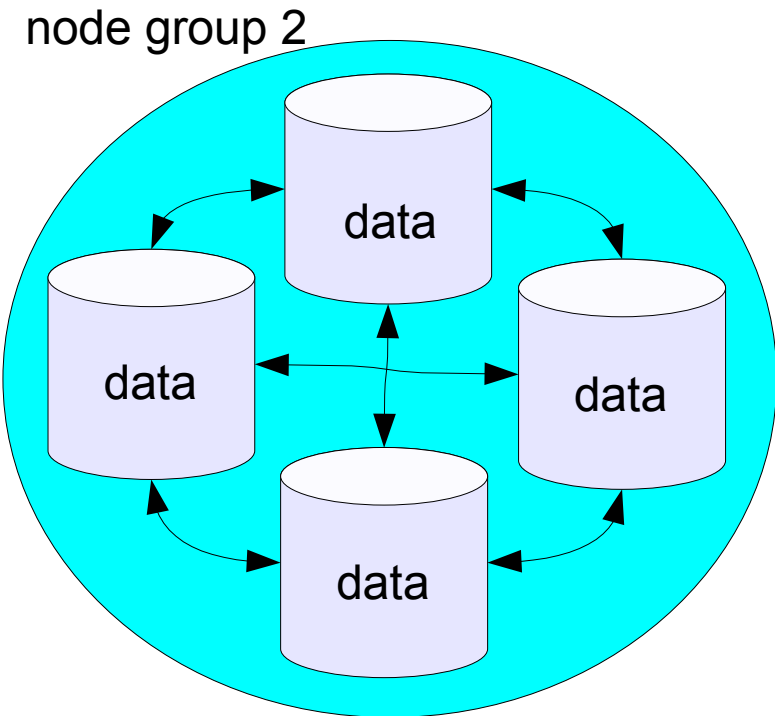
Cluster Architecture



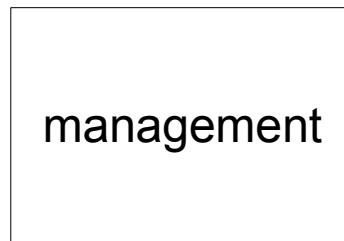
Cluster Architecture



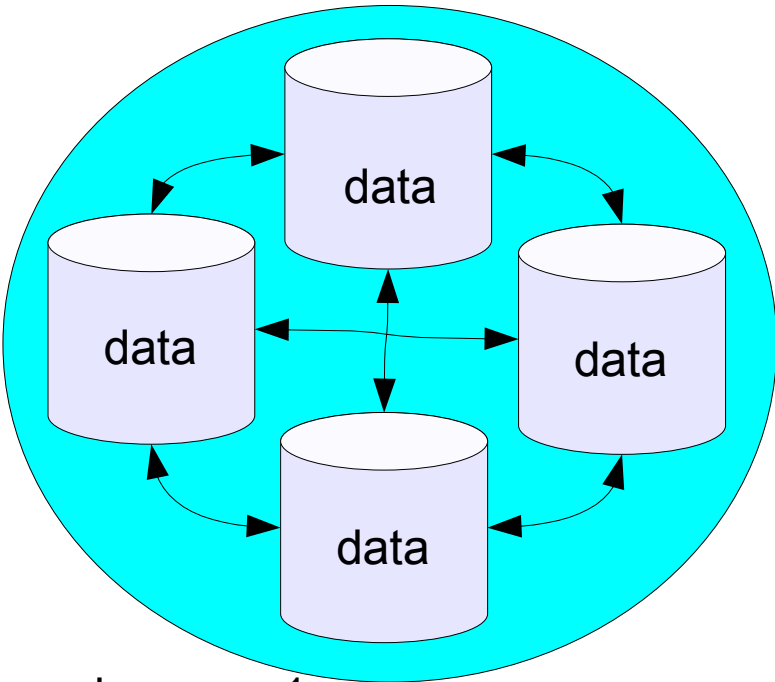
node group 1



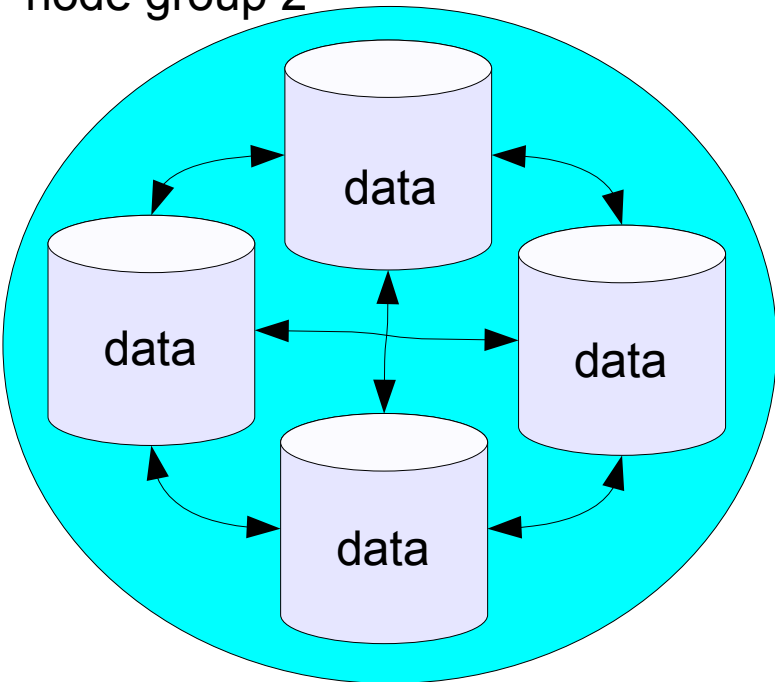
node group 2



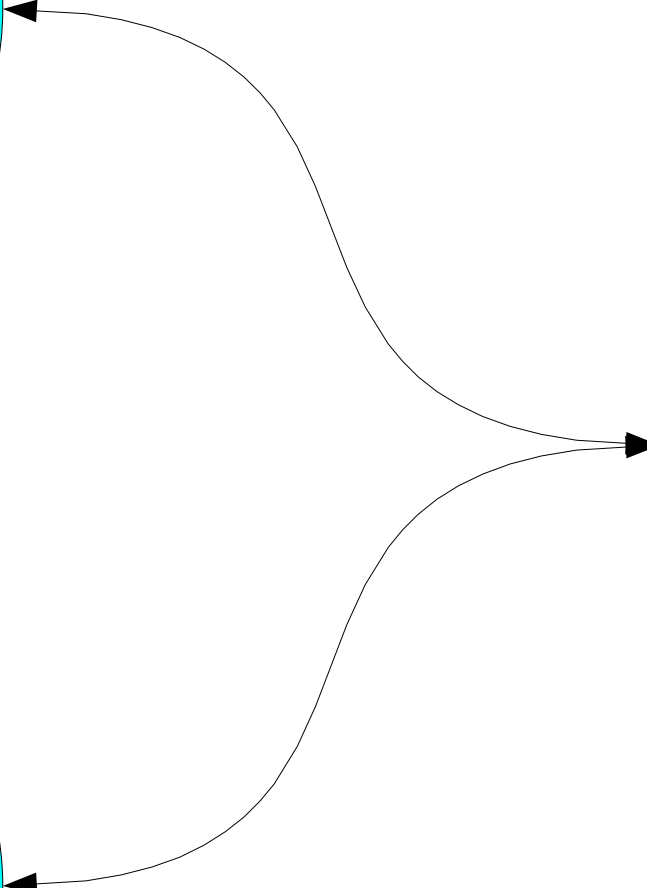
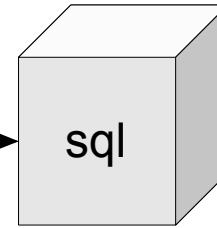
Cluster Architecture



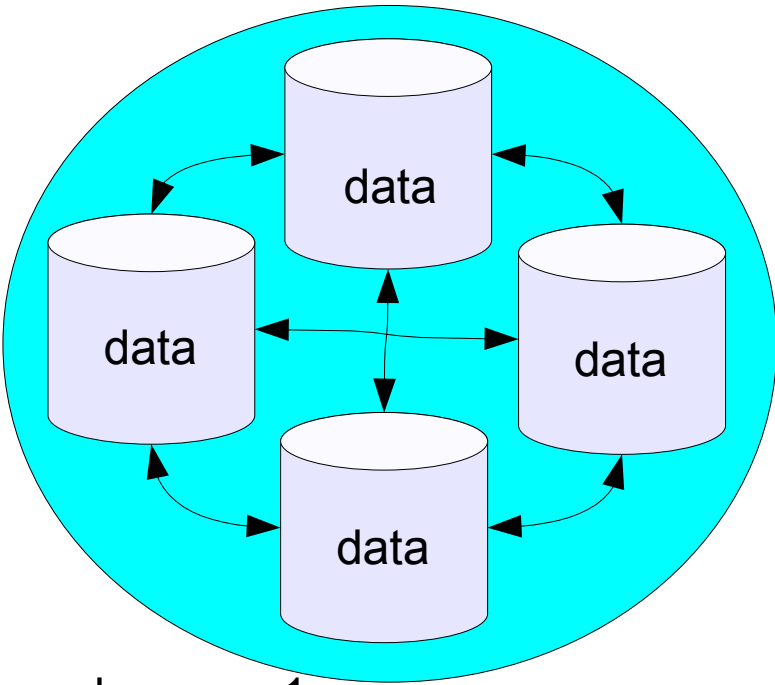
node group 1



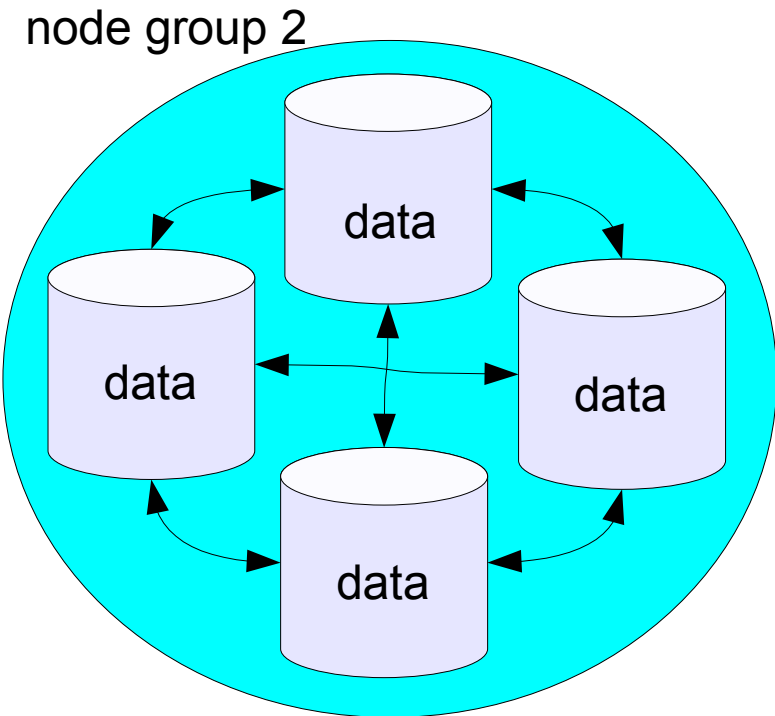
node group 2



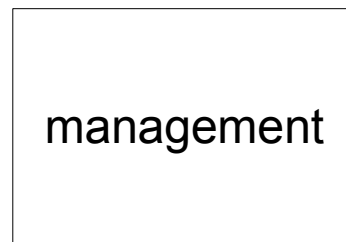
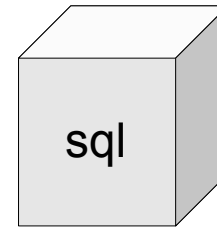
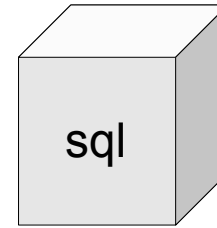
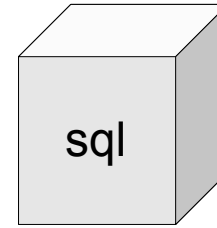
Cluster Architecture



node group 1



node group 2



In-Memory

- Data and Indexes
- Data nodes
- Fragments



Good Use of Cluster

- Lots of writes
- Small transactions
- Few large table joins



Cluster Key Characteristics

- Fast lookup for UNIQUE
- Keys < 32 bytes
- Range for non-UNIQUE



Even more

- Primary key
- DELETE:INSERT proportional
- Fixed length columns are acceptable



Questions?

Comments?

Suggestions?

