

# MariaDB/MySQL Galera Cluster

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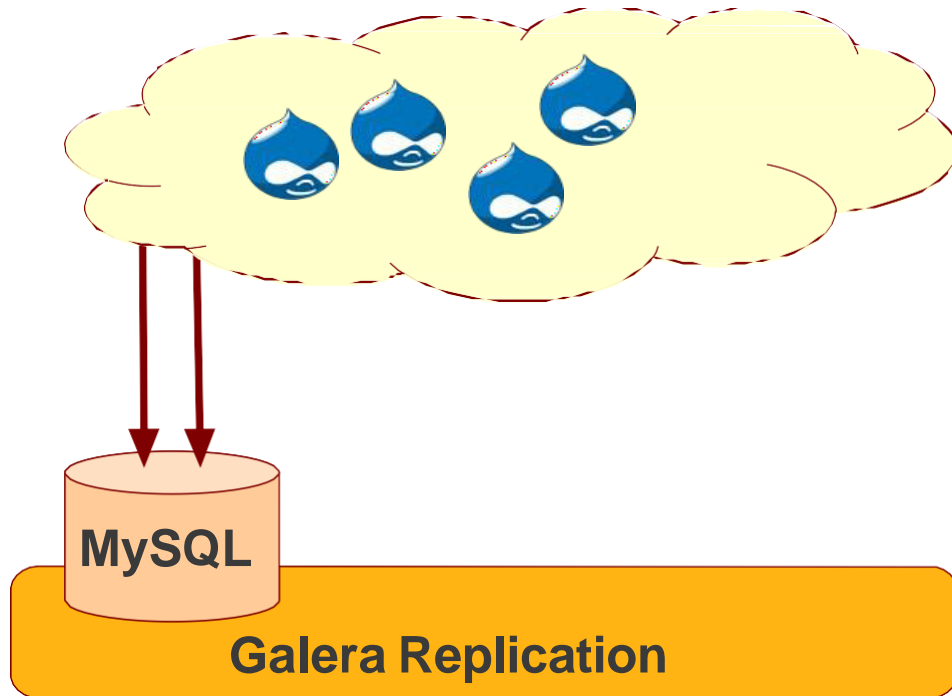
杭州沃趣网络科技有限公司  
Hangzhou WOQU Technology Co., Ltd.

Let Data Drive!

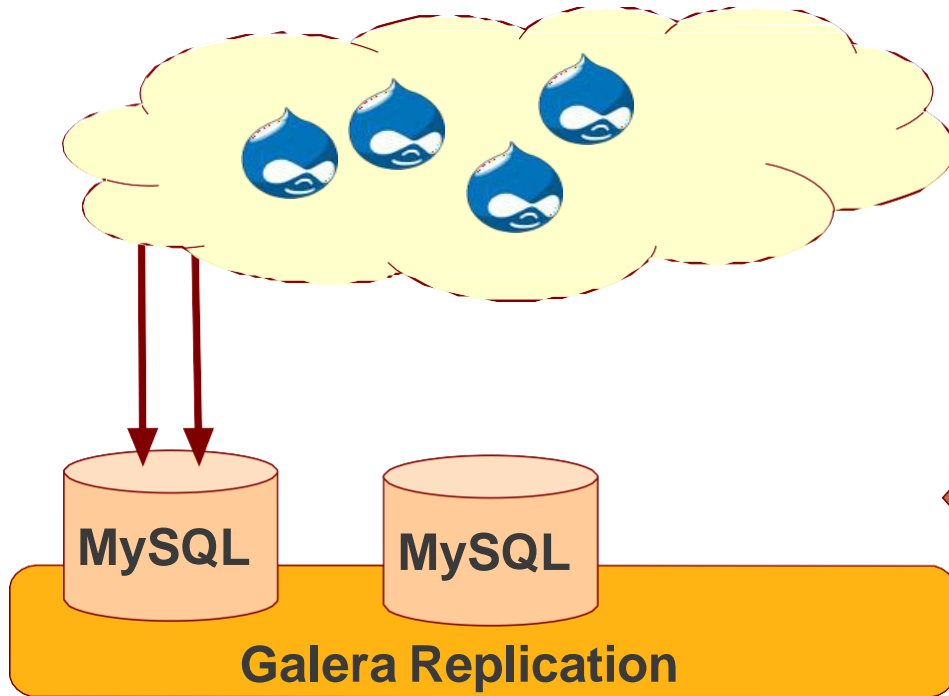
# MariaDB/MySQL Galera Cluster

- General introduction:
  - The Cluster consists of Nodes.
  - Each Node is regular *MySQL / Percona / MariaDB Server* setup
  - Each Node contains the full copy of data

# Multi-Master Replication

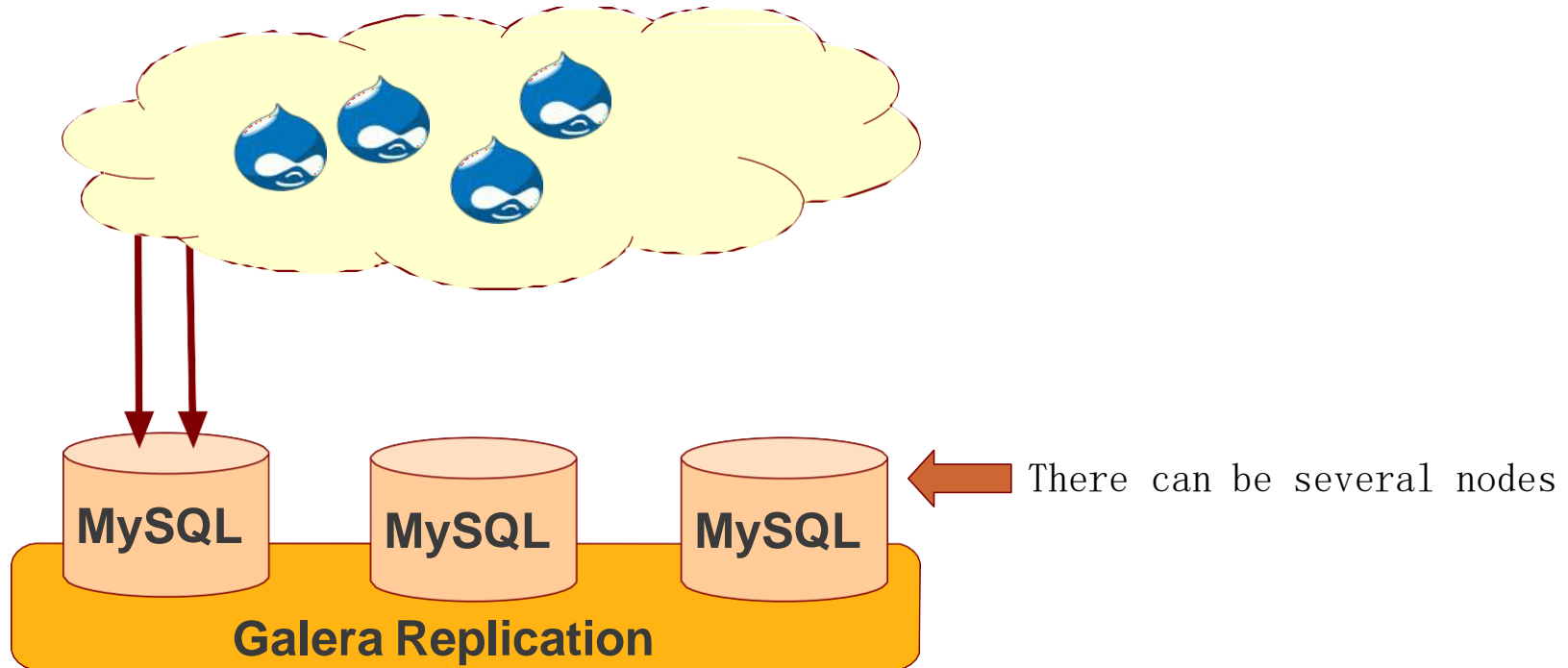


# Multi-Master Replication

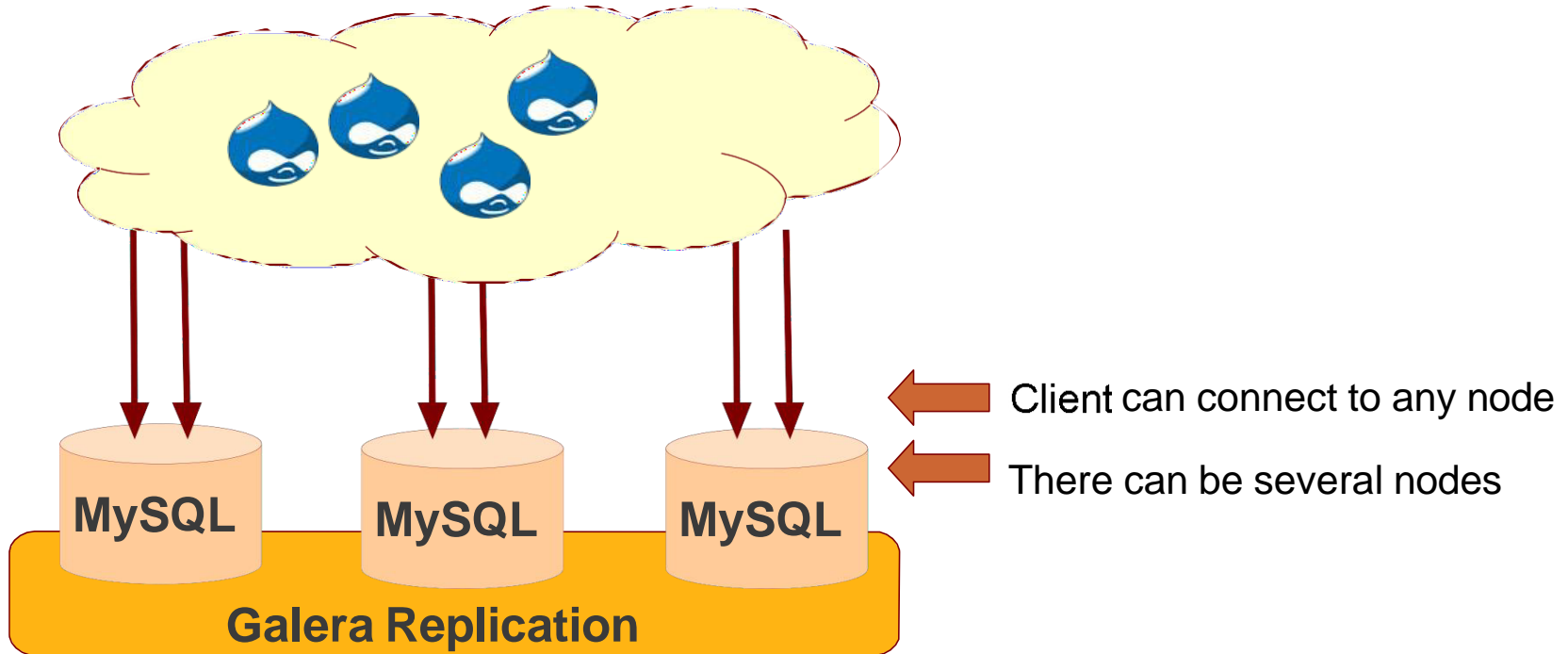


← There can be several nodes

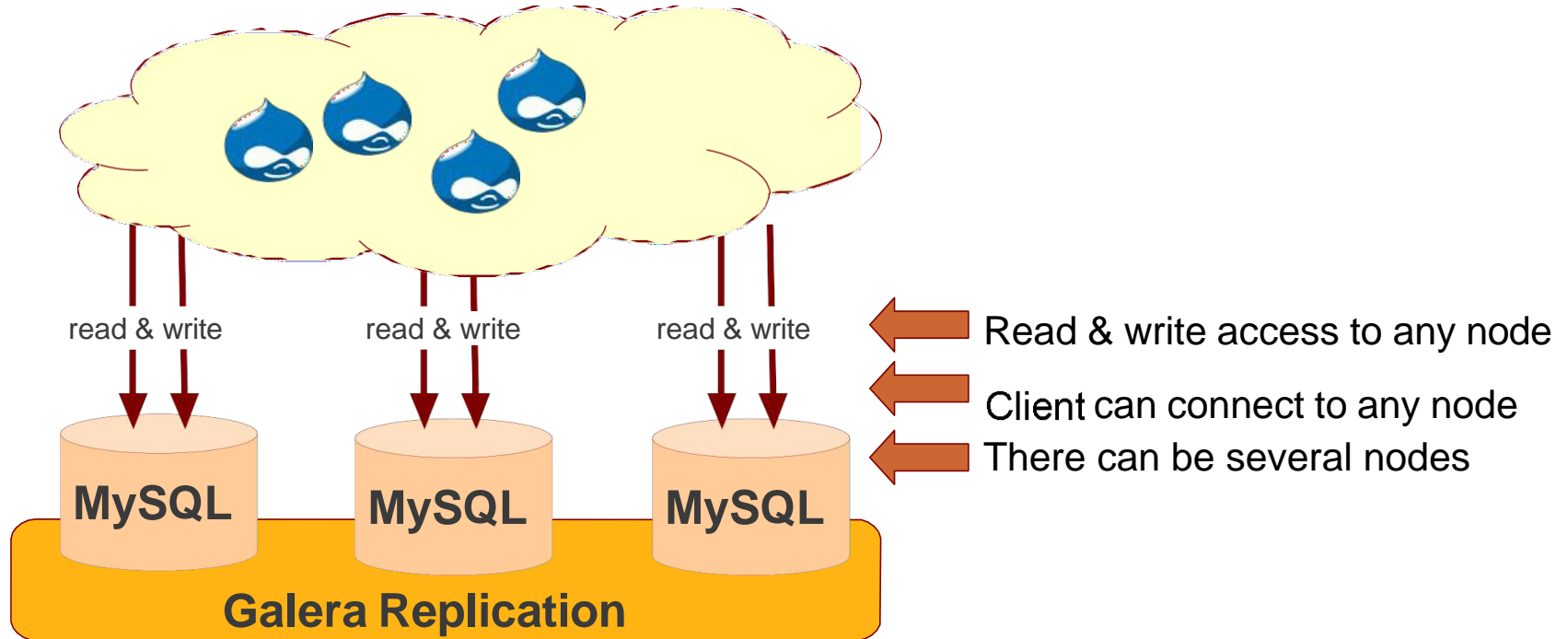
# Multi-Master Replication



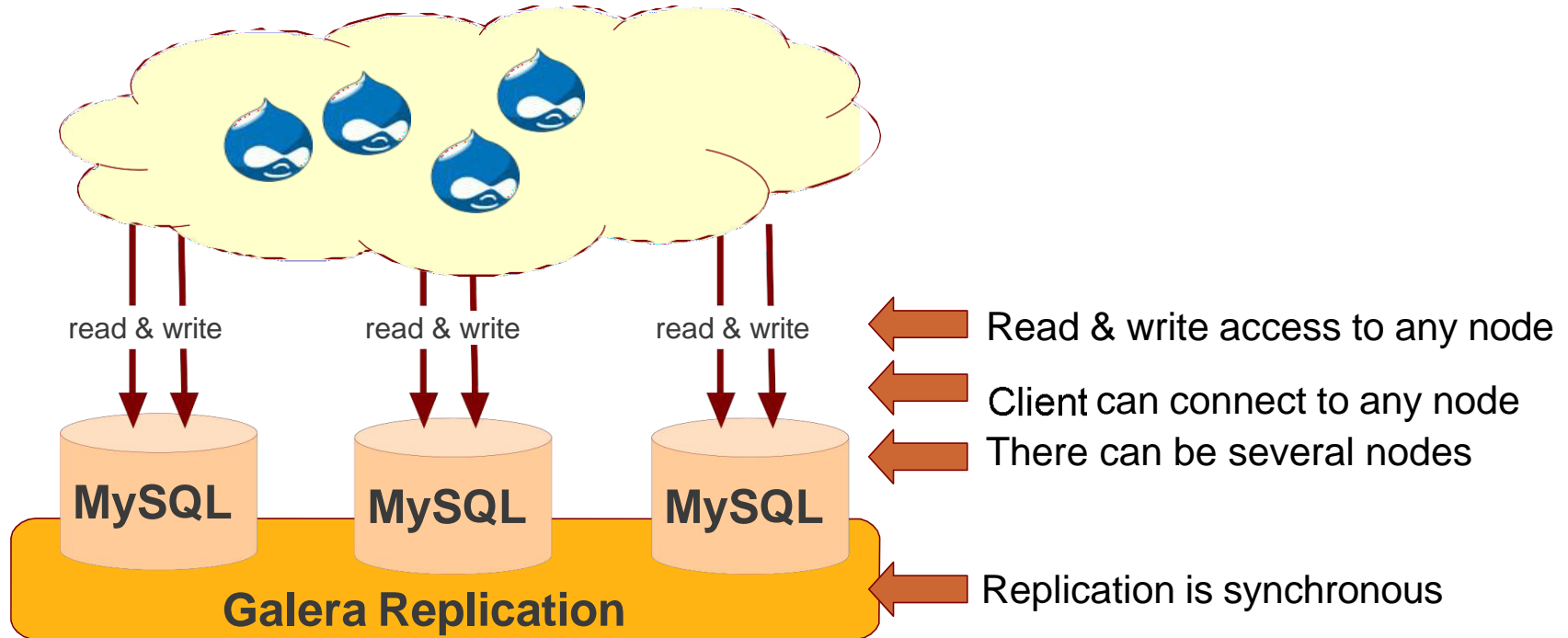
# Multi-Master Replication



# Multi-Master Replication

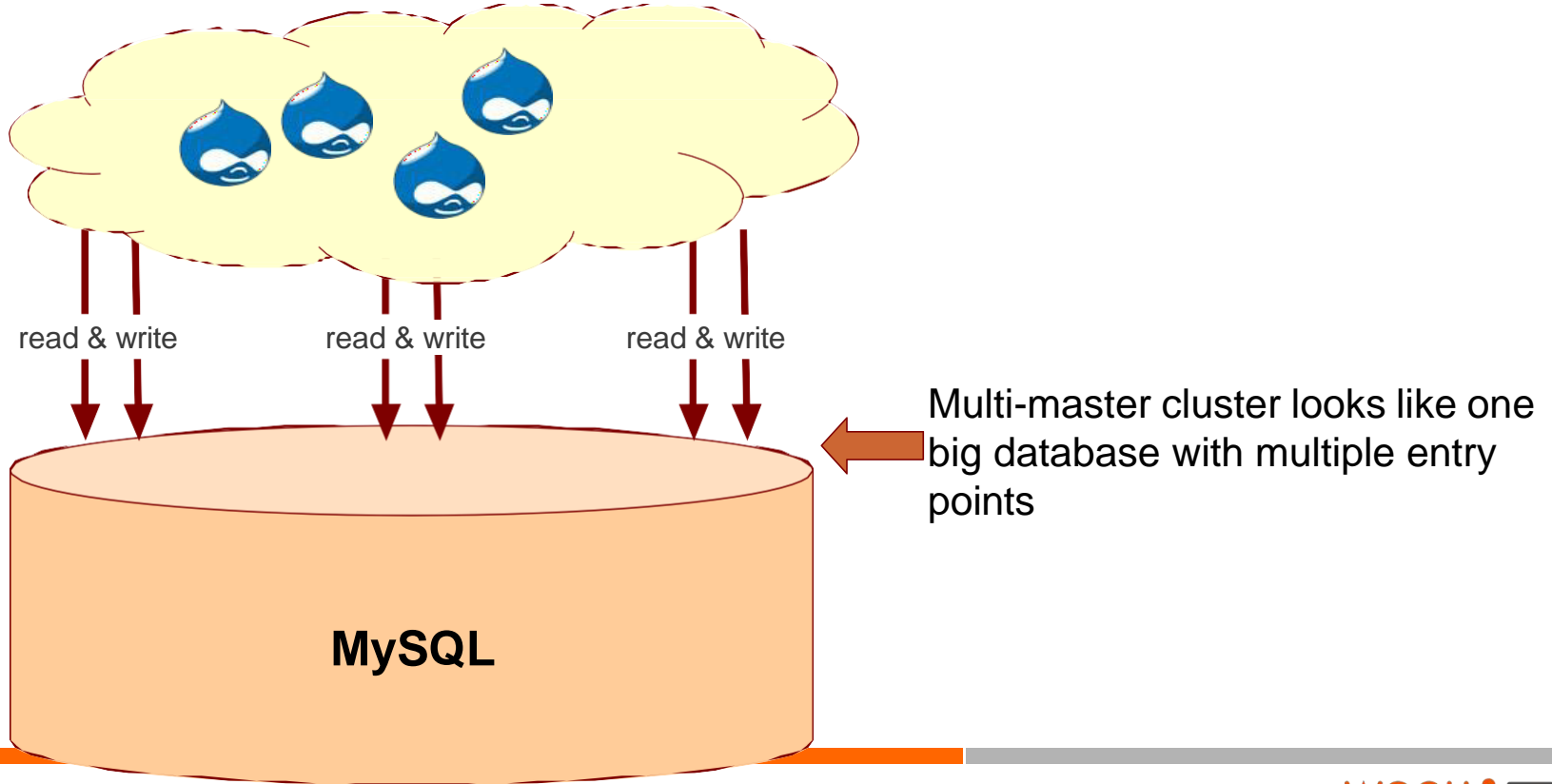


# Multi-Master Replication





# Multi-Master Replication



- **Benefits**

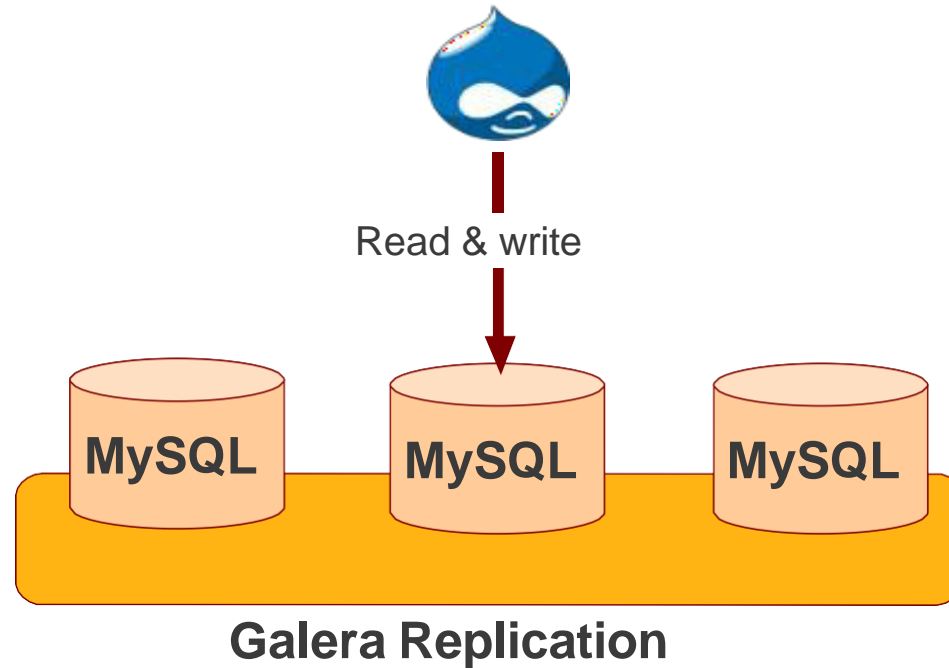
- When you execute a query, it is executed locally on the node
- No central management. You can lose any node at any point of time, and the cluster will continue to function.
- Good solution for scaling a read workload. You can put read queries to any of the nodes.

- Drawbacks
  - Overhead of joining new node.
  - This can't be used as an effective write scaling solution.
  - You have several duplicates of the data, for 3 nodes - 3 duplicates.

# Galera Cluster

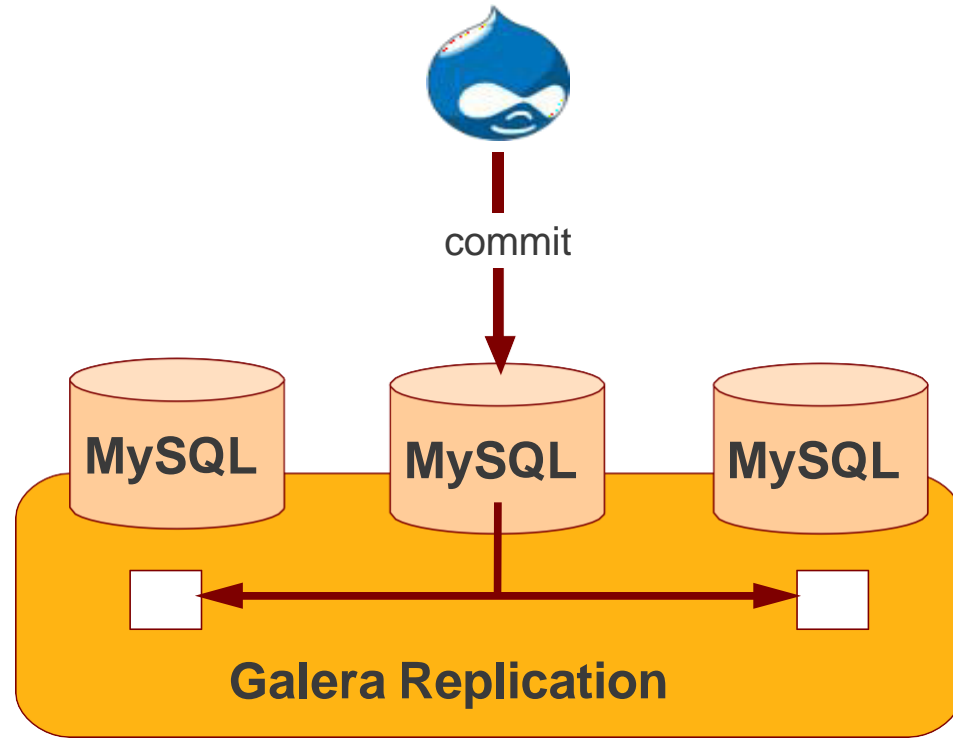
- Synchronous multi-master cluster
- For InnoDB Engine
- 3 or more nodes needed for HA
- Automatic node provisioning
- Works in LAN / WAN / Cloud

# Synchronous Replication



Transaction is processed locally up to commit time

# Synchronous Replication



Transaction is replicated to whole cluster

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/087045013046006056>