

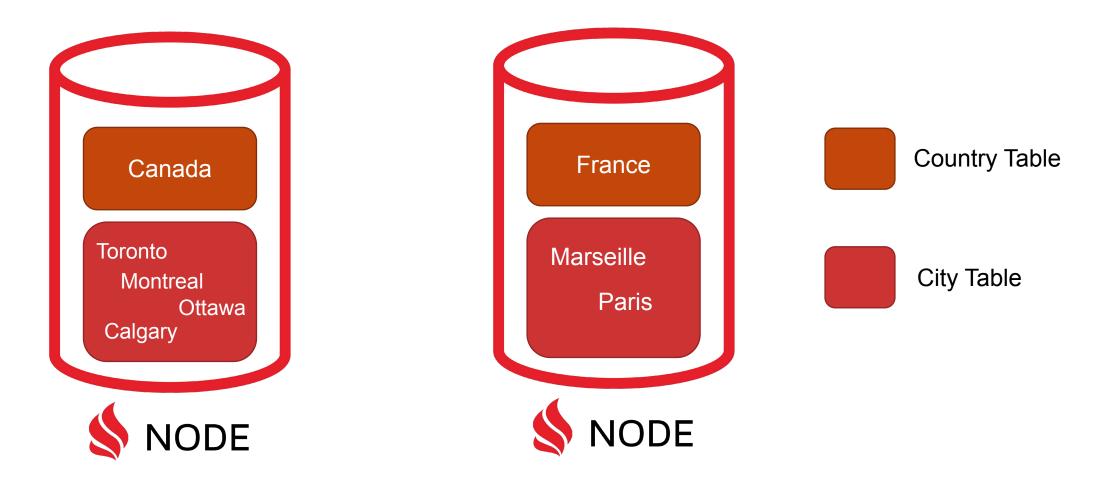


Learning Ignite Through Coding Examples

Denis Magda Ignite PMC Member, GridGain Head of DevRel

World Database Schema - Used by Sample App



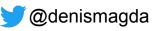






- 1. Using **SQL** for Schema Creation and CRUD operations
- 2. Using **Key-Value** APIs for CRUD requests
- 3. Updating Records with Distributed ACID Transactions
- 4. Running Custom Java Tasks on Cluster Nodes
- 5. Listening to Data Changes with **Continuous Queries**
- 6. Making the Cluster Durable with Ignite Native Persistence



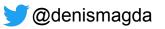


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github.com/GridGain-Demos/ignite-learning-by-examples





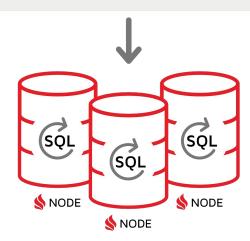


Part #1: SQL APIs

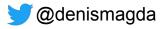


Applications

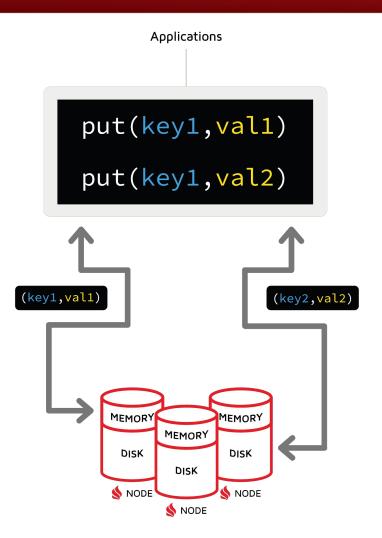
CREATE table...; CREATE index...; INSERT INTO table...; SELECT FROM table...;



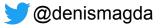




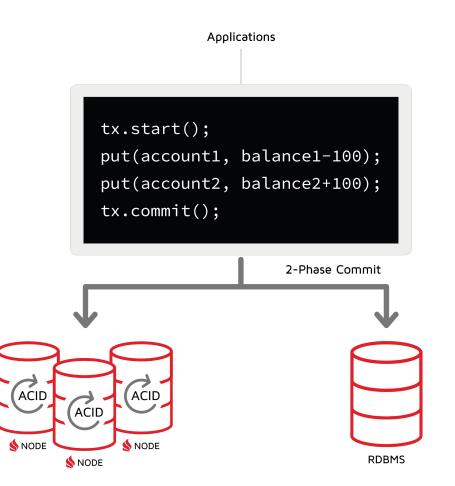
Part #2: Key-Value APIs



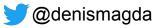




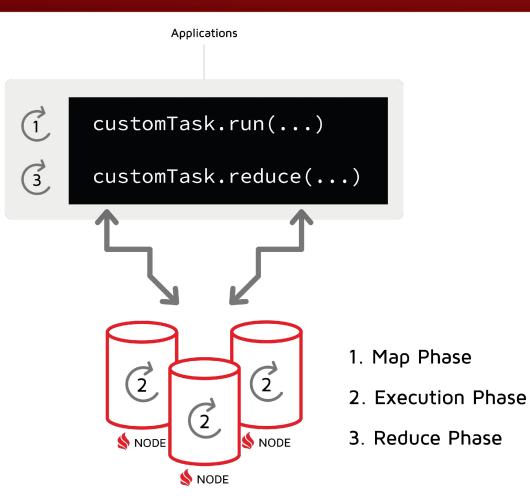
Part #3: Distributed ACID Transactions



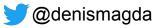




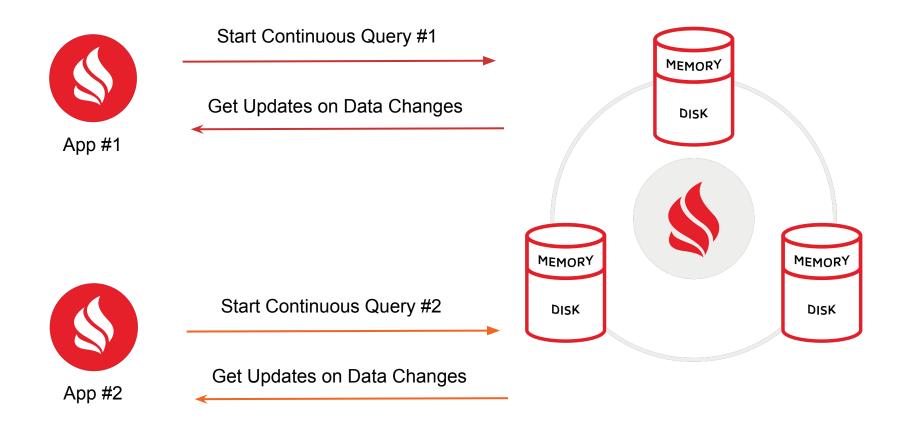
Part #4: Distributed Custom Java Tasks



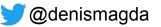




Part #5: Continuous Queries

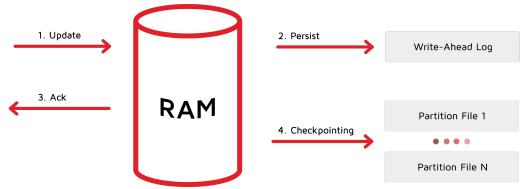




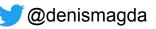


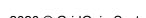
Part #6: Ignite Native Persistence

- Distributed Persistence Tier
 - Fully transactional and consistent
 - No need to cache 100% of data in RAM
 - No need to warm-up RAM on restarts
- Performance vs. Cost Tradeoff
 - Cache more for fastest performance
 - Cache less to reduce infrastructure costs



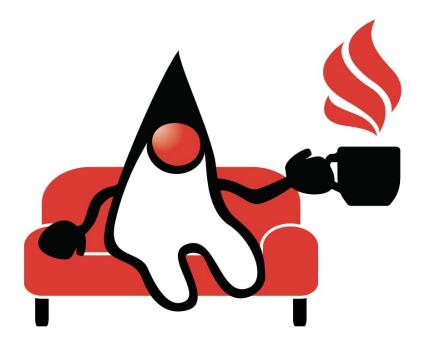








- GitHub Project Used Today
 - github.com/GridGain-Demos/ignite-learning-by-examples
- GridGain Control Center
 - https://control.gridgain.com







Virtual Apache Ignite Meetup

meetup.com/Apache-Ignite-Virtual-Meetup/

