Apache Avatica for Universal Database Access

Josh Elser PhoenixCon 2017 2017/06/13



Engineer at Hortonworks, Member of the Apache Software Foundation

Various roles and involvement in...

Top-Level Projects

- Accumulo
- Calcite
- HBase
- Phoenix

ASF Incubator

- Fluo
- Gossip
- Rya
- Slider

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The Playing Field



"A framework for building database drivers"



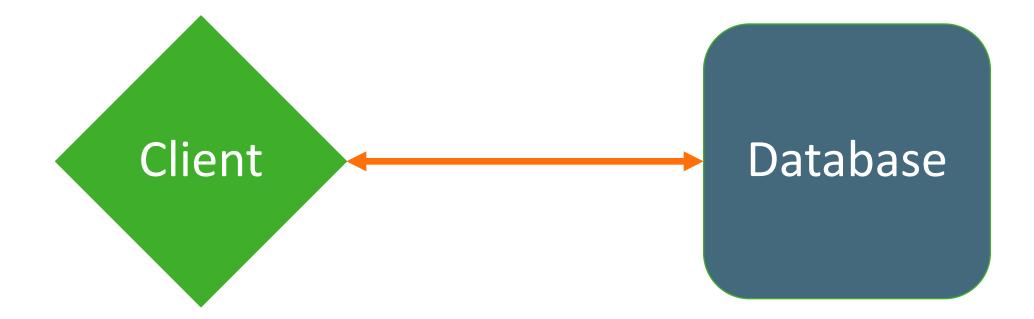
Foundational components for building high-performance databases



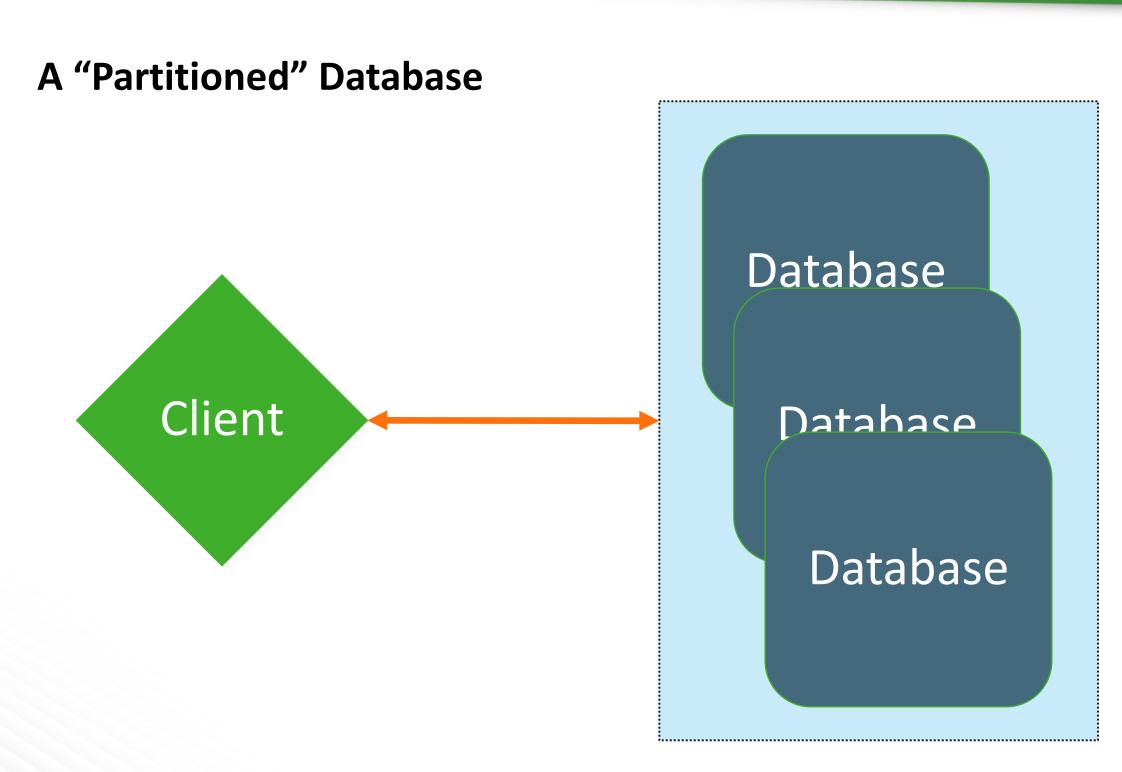
"OLTP and operational analytics for Apache Hadoop"



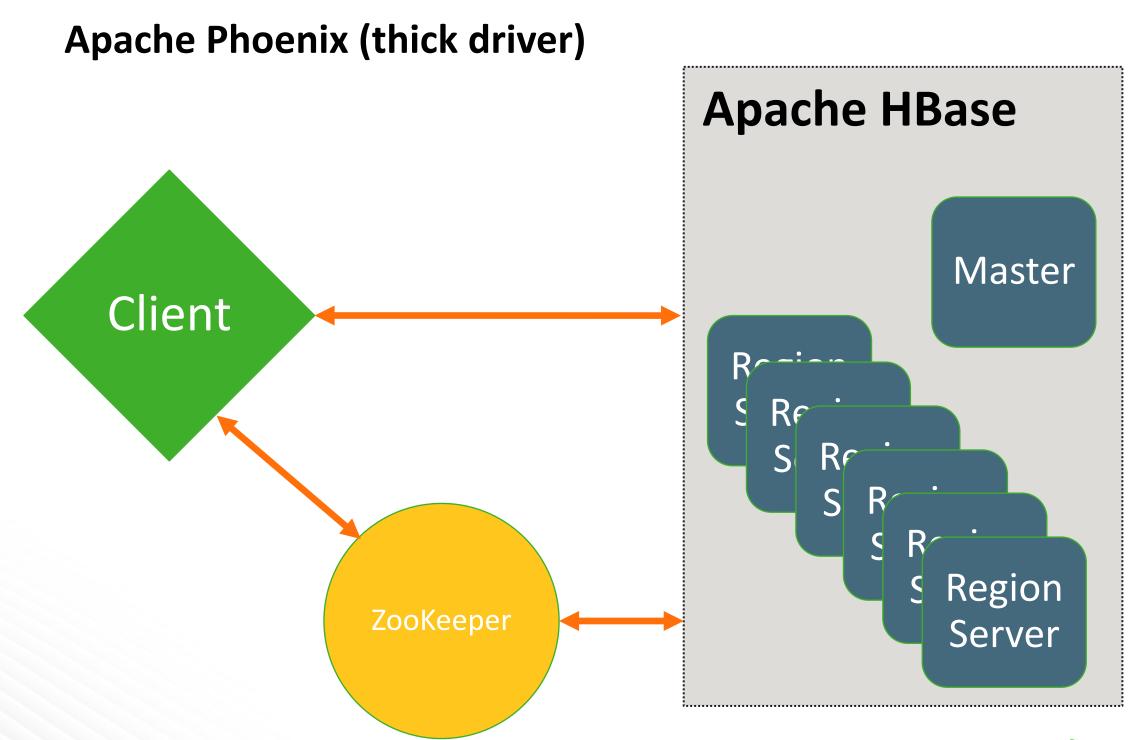
The "Traditional" Database Architecture



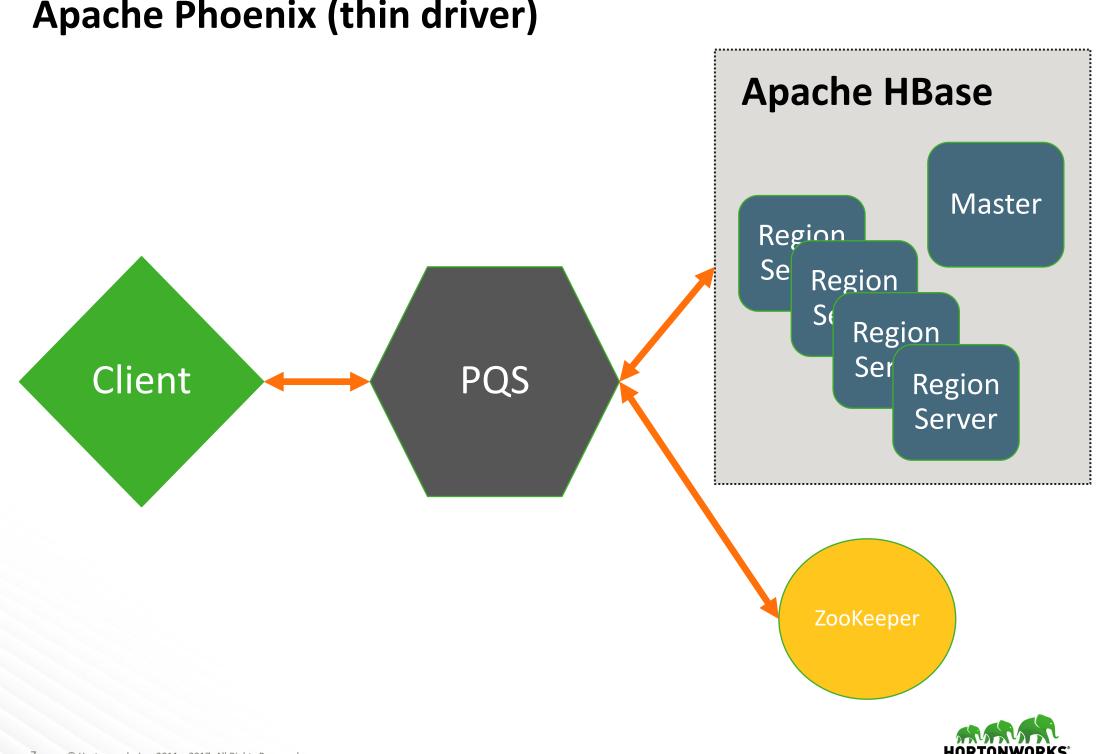






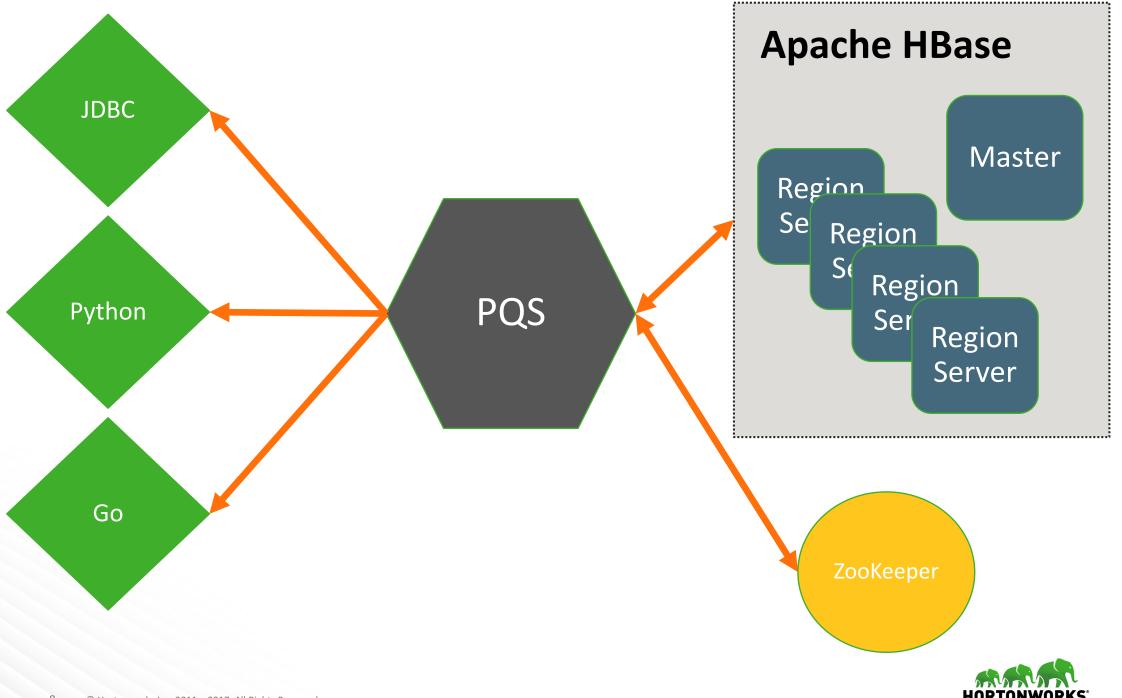




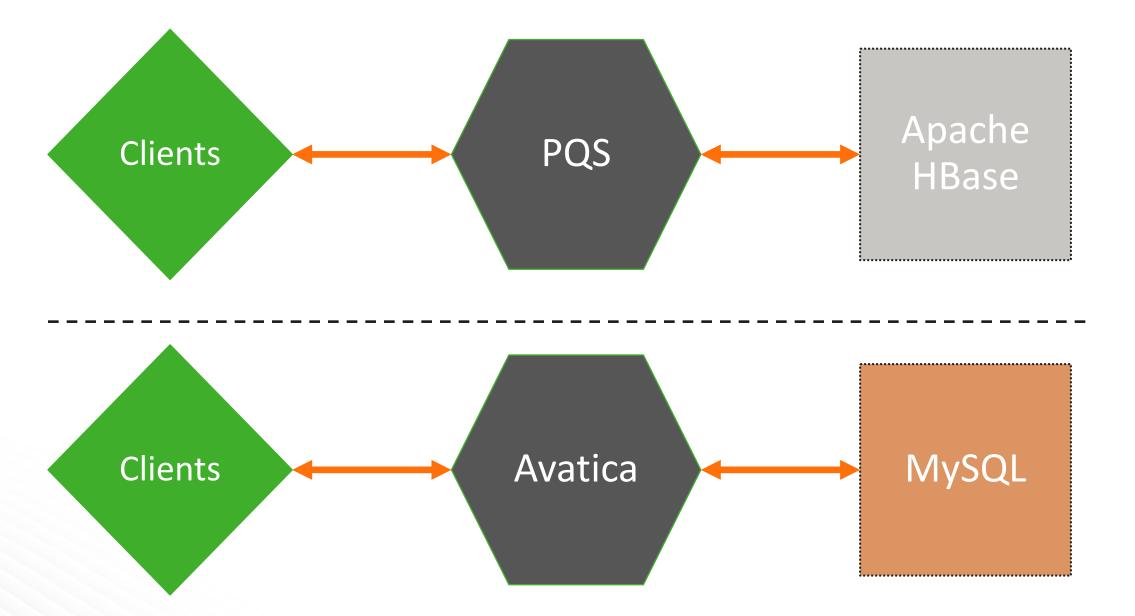


Apache Phoenix (thin driver)

Apache Phoenix -- Non-JDBC Client

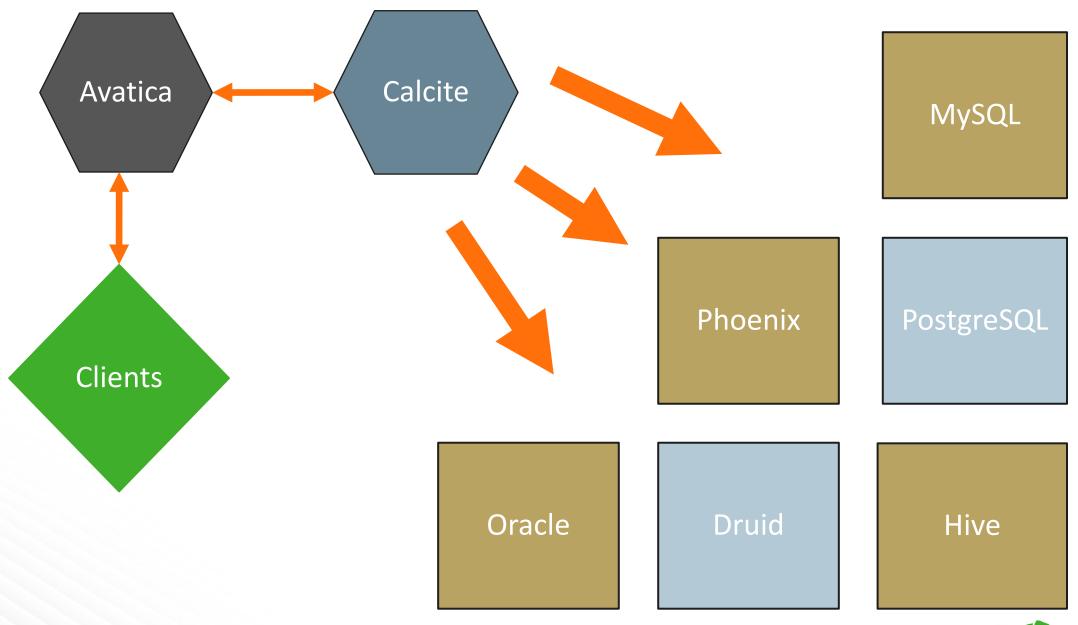


Avatica with other Databases





Apache Calcite -- Hybrid Database Access





Thanks!

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