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HBASE**

Hbase Practice At ke.com

Guoxian Zhao

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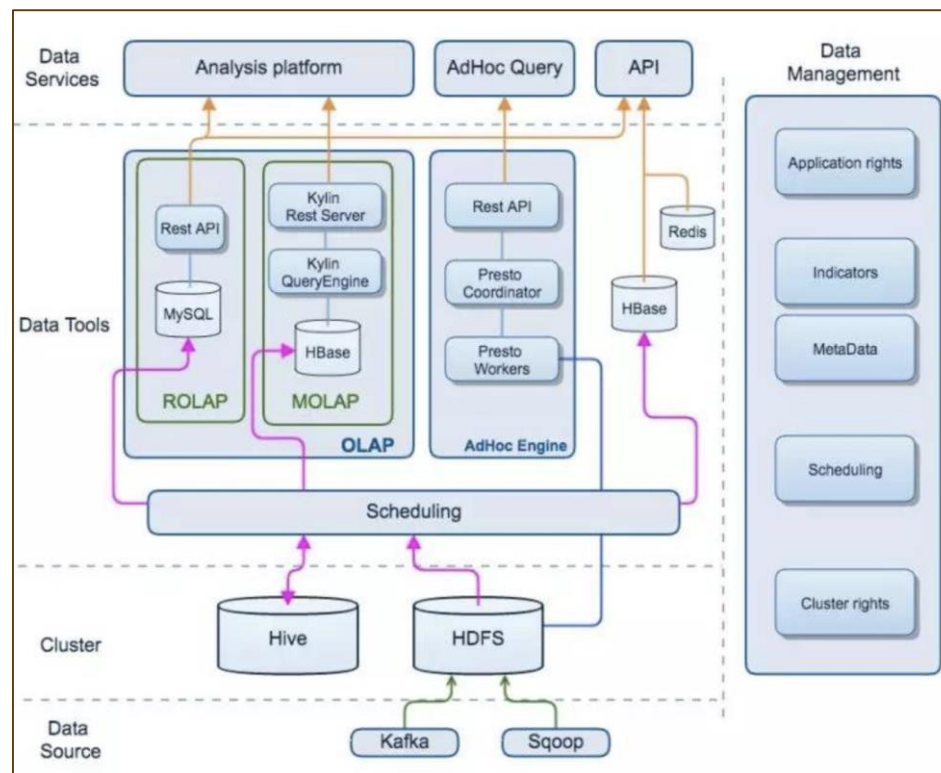
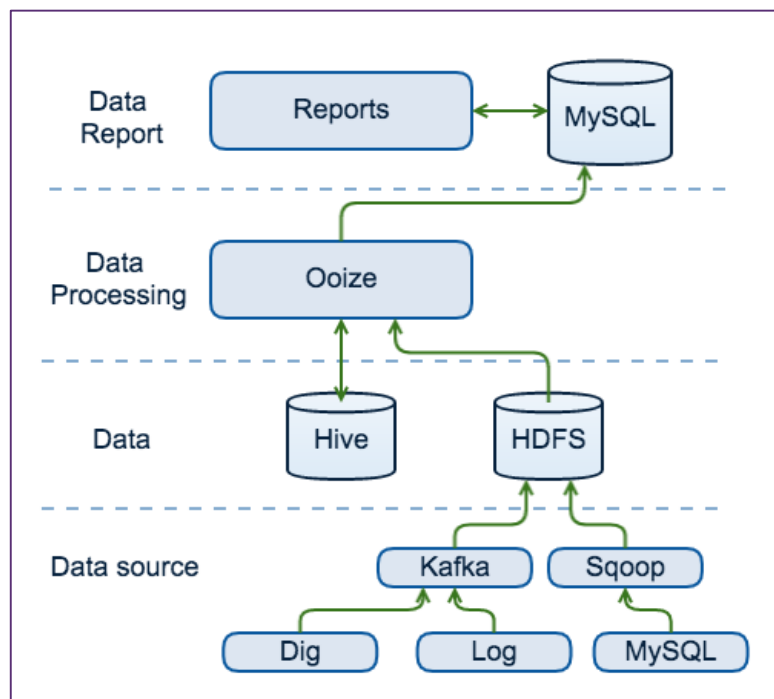


01 Architecture Evolution

bigdata architecture for ke

Evolution

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02 Olap Scenario

Olap Scenario

Requirement List

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 APACHE HBASE

■ Billion data set

■ High concurrency



■ subsecond response times

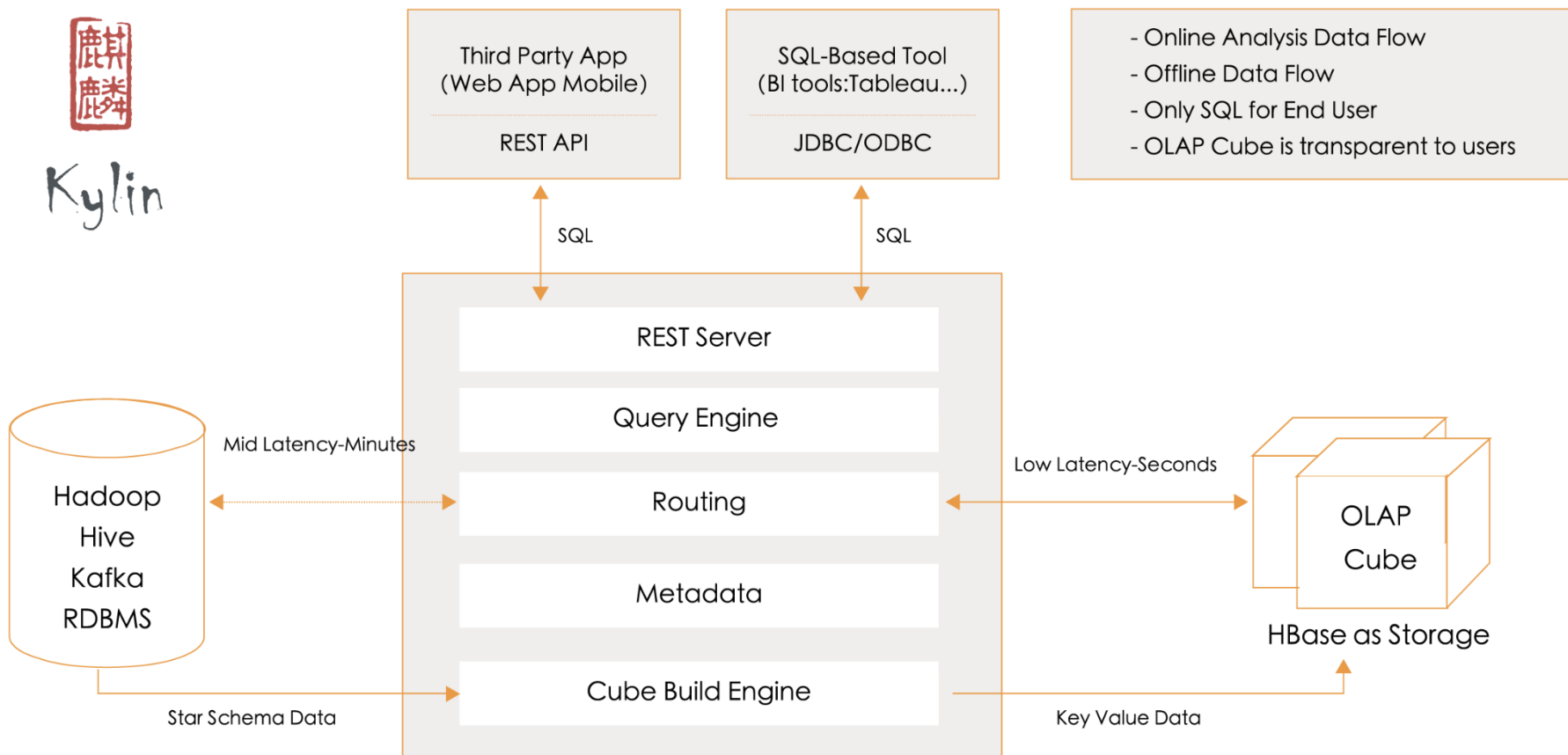
■ sql interface

Olap Scenario

kylin



Kylin

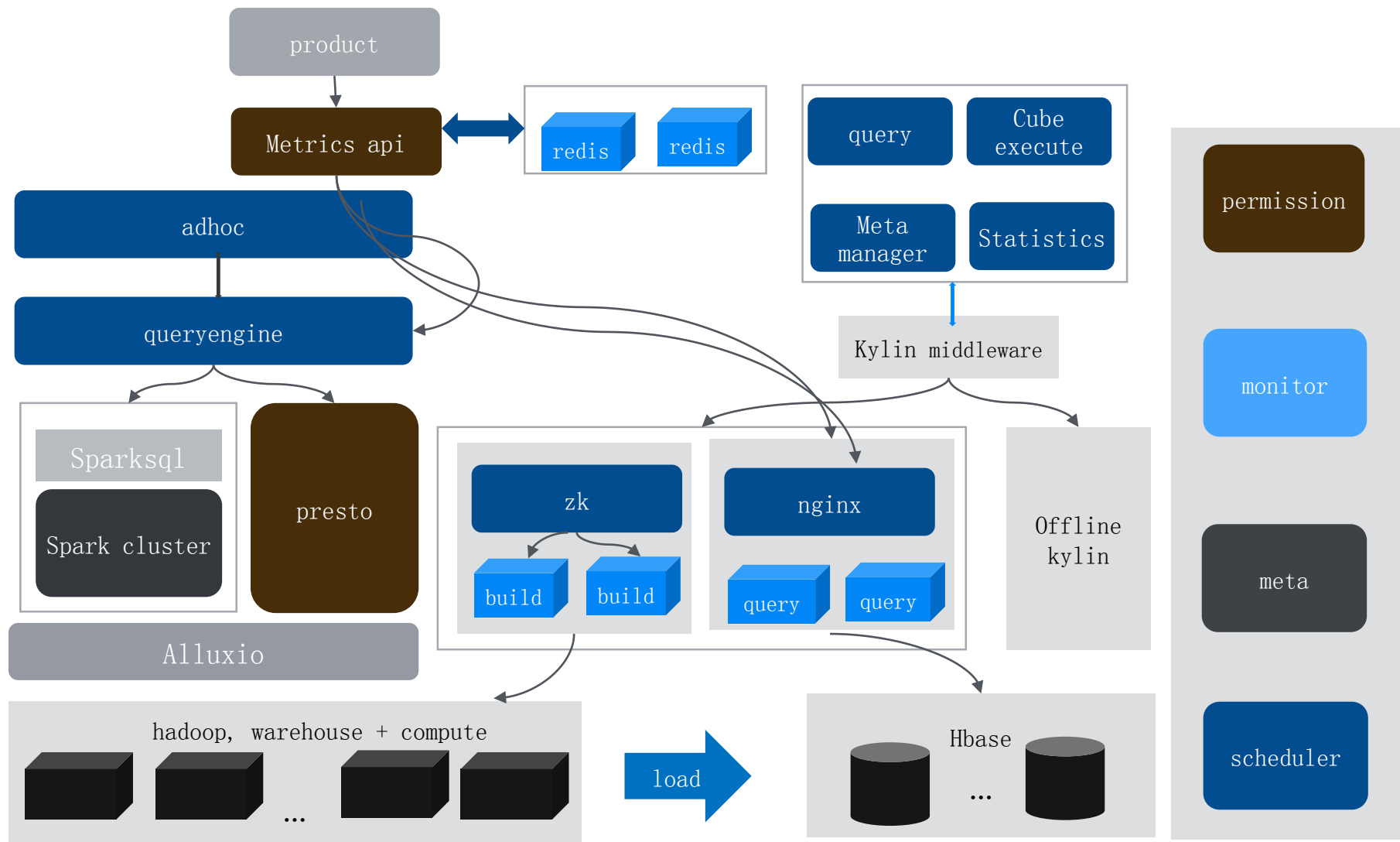


Olap Scenario

Olap data architecture map

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 APACHE HBASE



Data For Kylin

- ✧ 800+cube、16+business
- ✧ 200T storage、160000 million data、1 cube 6000 million
- ✧ Query/day million, <500ms(95%), <1s (99%)

Data Product

Metrics platform

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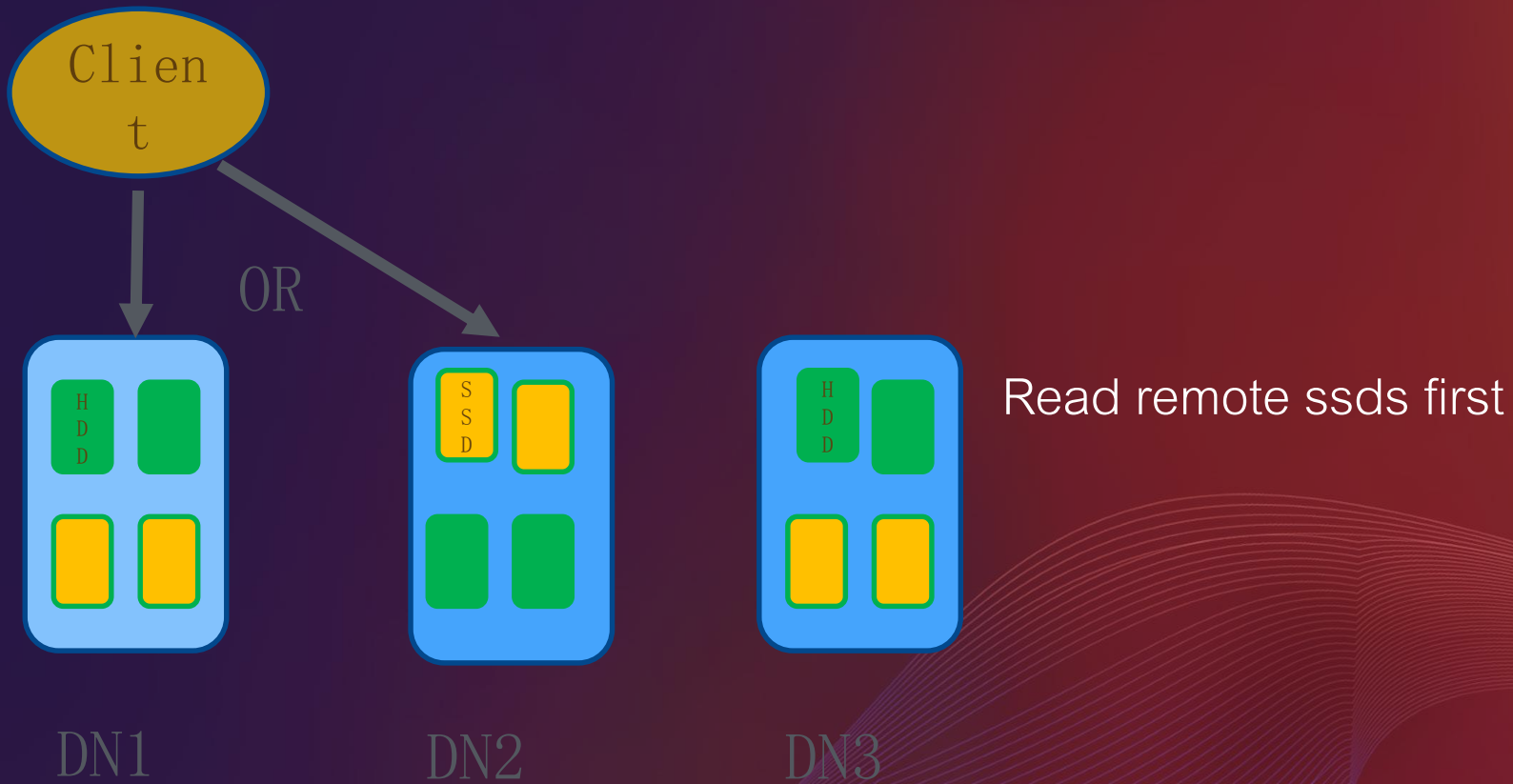
APACHE
HBASE



- roll-up drill
- multidimensional analysis
- self-service configuration
- report
- standard indices

Performance Optimizations For Hbase

SSD-FIRST



Performance Optimizations For Hbase

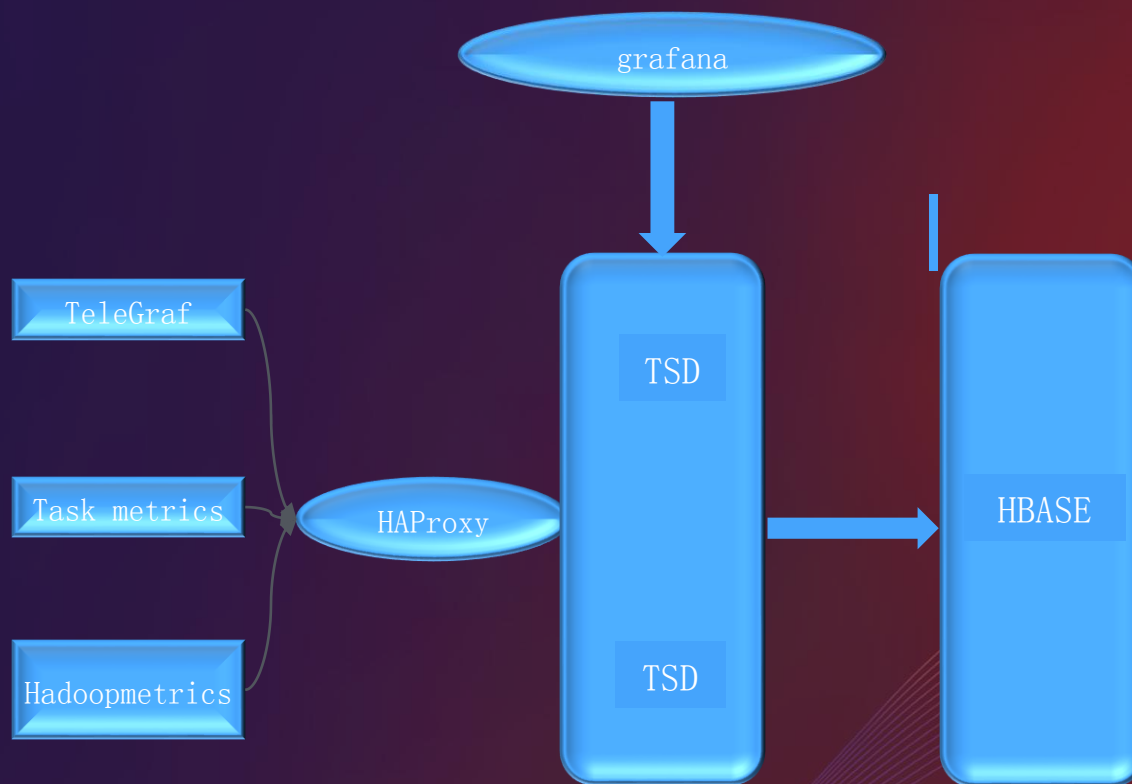
others

- ✧ HDFS short-circuit
- ✧ Data hedged , multi thread read
- ✧ Test stale datanodes, avoid the slow datanode
- ✧ Shutdown balance
- ✧ Multiwal, Improve write performance



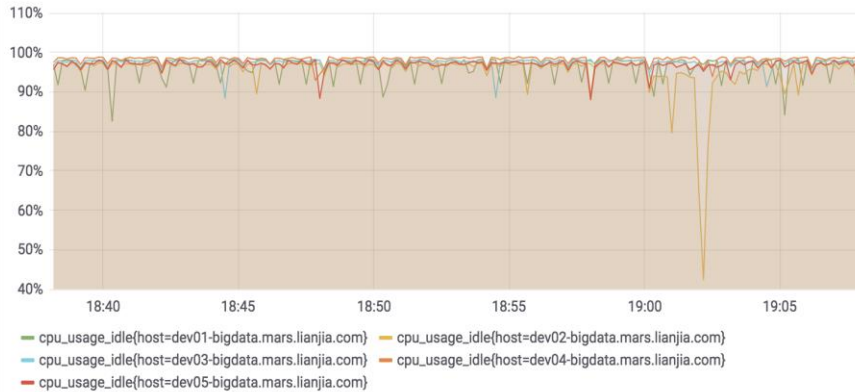
03 Monitor Scenario

Monitor senario

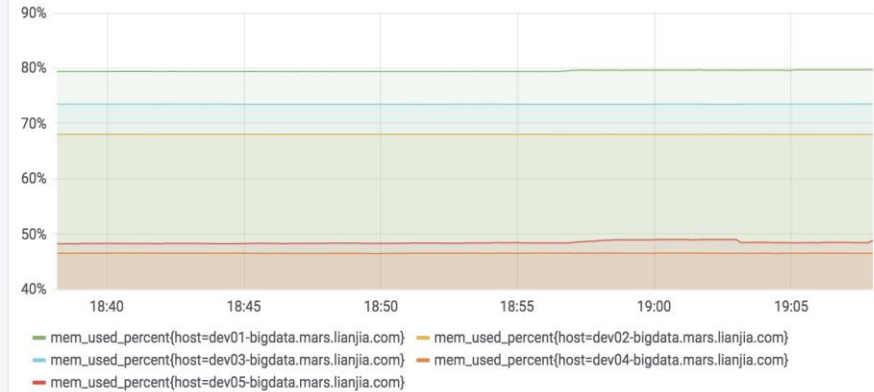


Monitor Scenario

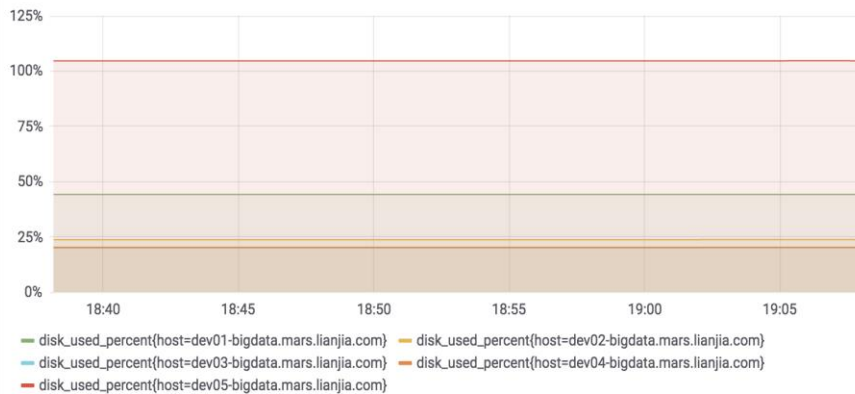
Servers CPU Idle



Servers MemU



Servers DiskU





04 Data Mining Scenario

Data Mining Scenario





05 RealTime ETL Scenario

RealTime ETL Scenario

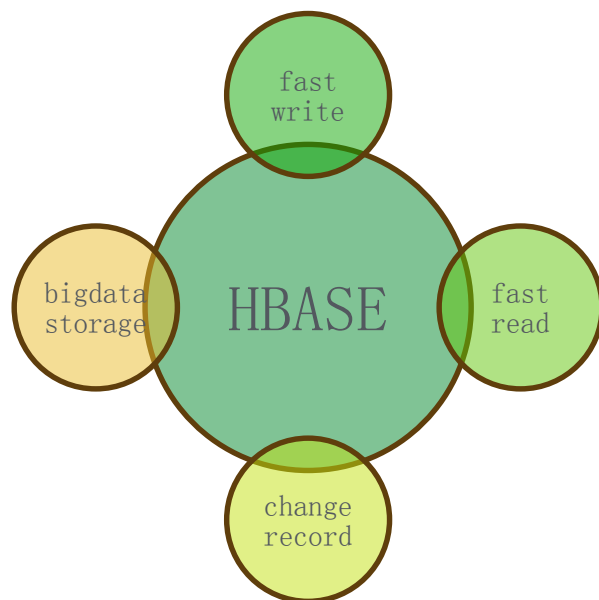
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RealTime DB ETL

RealTime log ETL



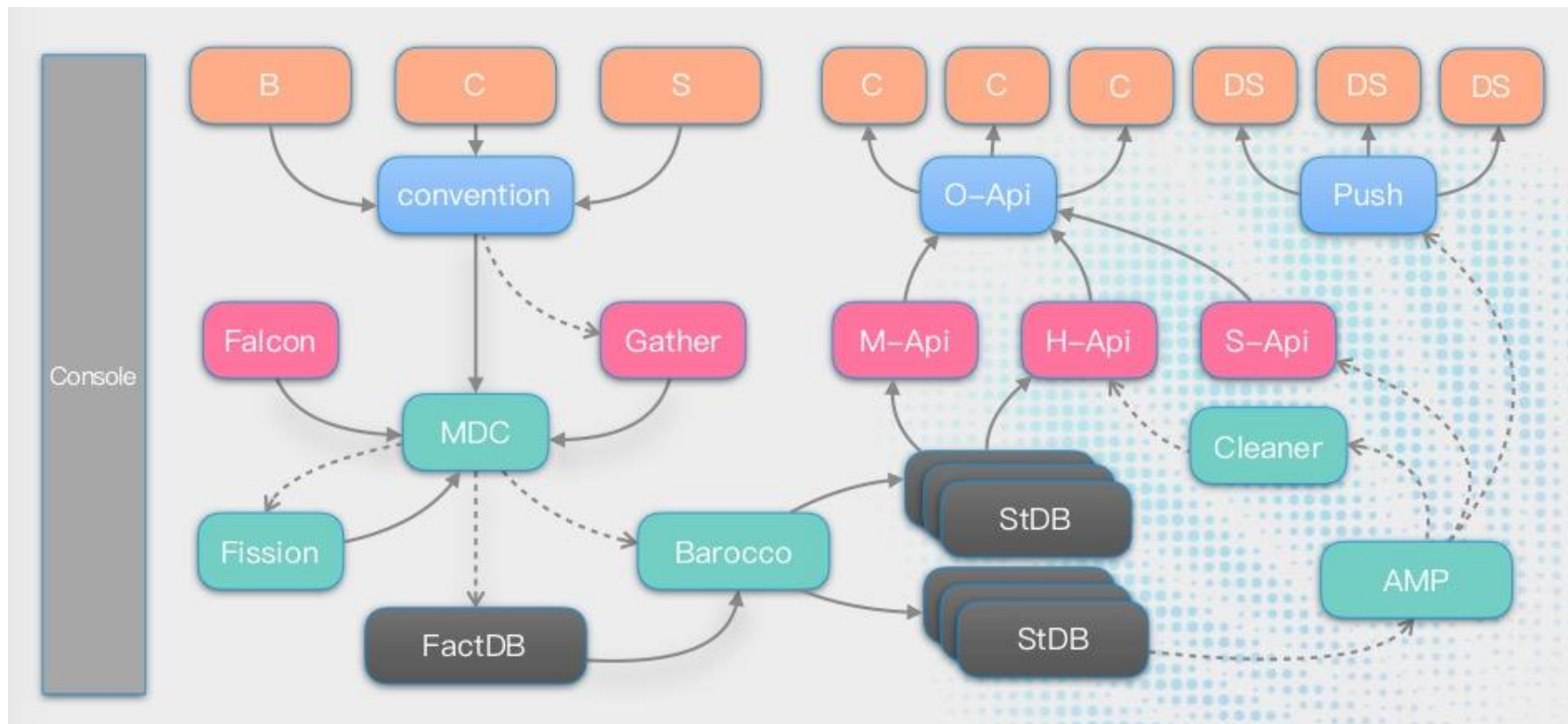


06 Hdic Scence

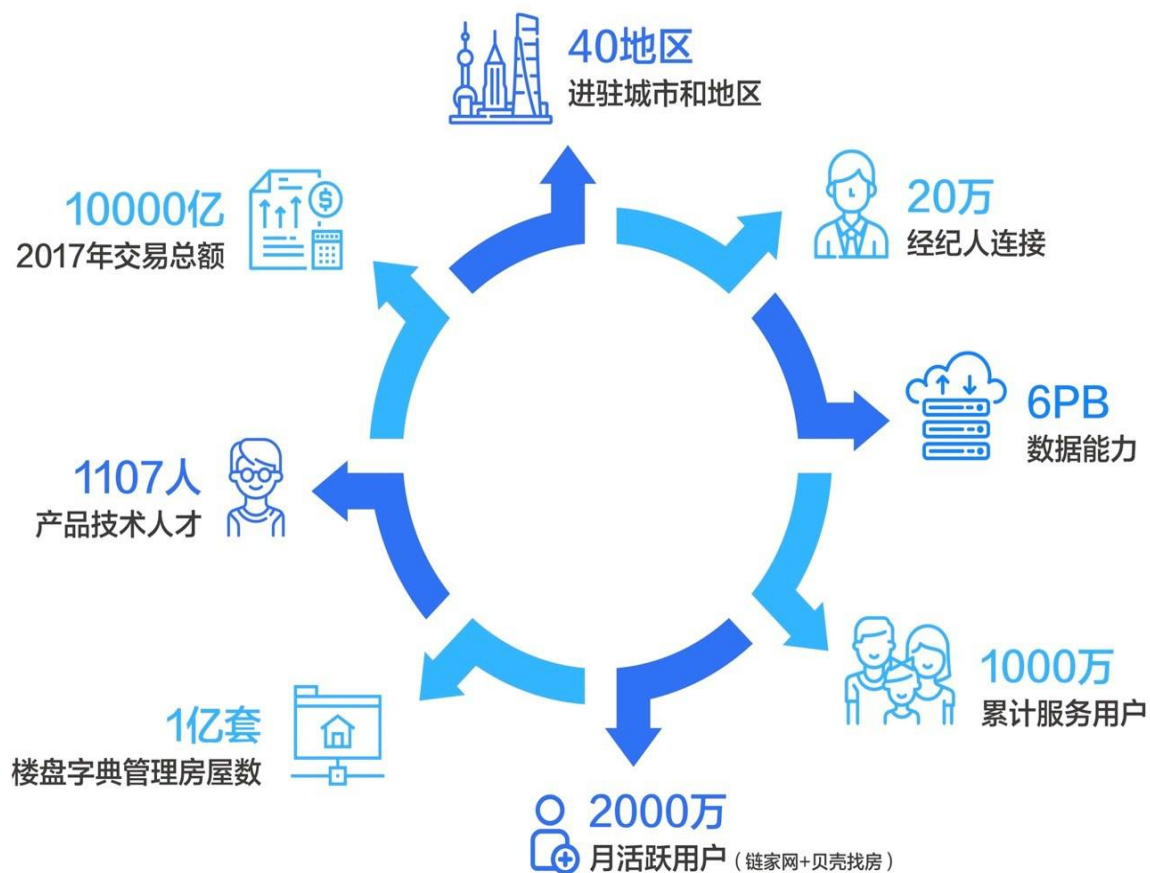
Hdic Scenario

Subtitle Text

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Thanks