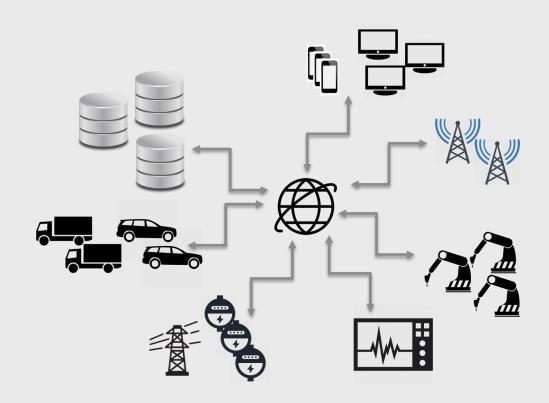


Dave Williamson

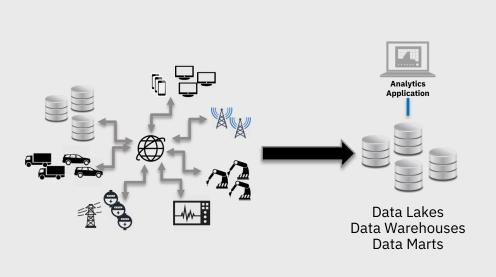
Business Development, Emerging Analytics Technology

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Data is Everywhere and increasingly heterogeneous



Performing Analytics Today



Costly and Complex

High Latency from source to use

Does not meet Business need

Compute resources at source not utilized

Error prone, data integrity challenges

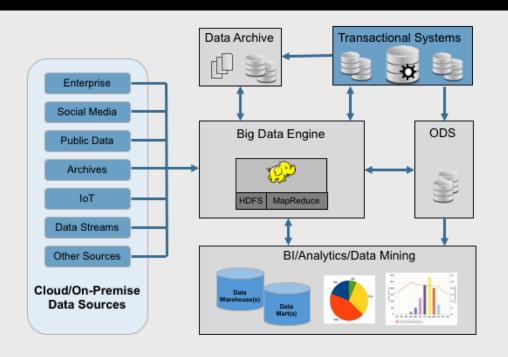
Applications expect homogeneity

Not scalable

Not all data needs to be moved or copied

IBM Cloud / @ 2018 IBM Corporation

Resulting Data Architectures



Numerous ETLs

Unnecessary duplication, replication

Data governance issues accelerating

What is Data Virtualization?

The ability to view, access, manipulate and analyze data without the need to know or understand its physical format or location

A new approach to Data Virtualization

Now in beta trial. Coming to ICP for Data in November

Query anything, anywhere.

Query many heterogenous data sources as one across cloud, on-premise and mobile with advanced analytics using the most popular languages and tools

Simplicity and scalability.

Automatically discover, and connect few to many devices and data stores into a single self balancing constellation. Avoid the complexity of centralized copies. Data only persists at the source.

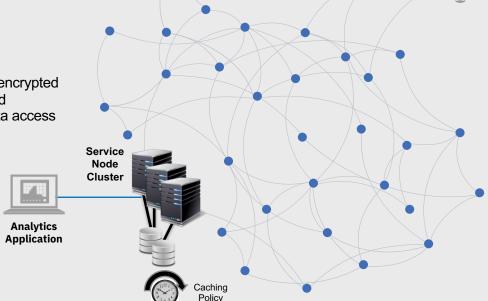
Execution speedup.

Many times acceleration using the power of every device to compute and aggregate results.

Security.

Fully secure and encrypted communication and preservation of data access rights at source.

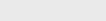




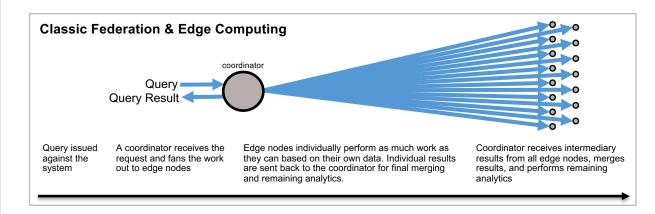
Constellation

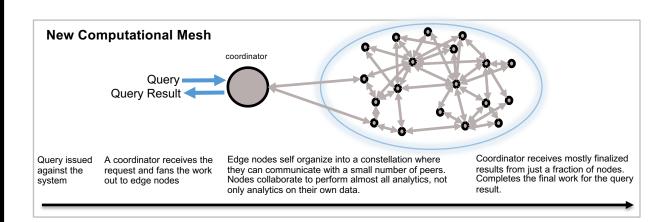
Data Source

Node



What is fundamentally different?





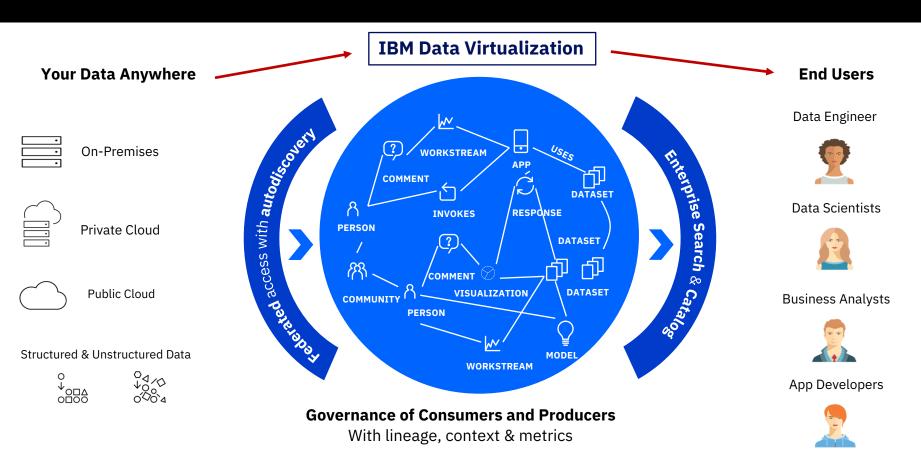
Supported Languages & Data Sources

Query Languages			
SQL (ANSI)	✓		
SQL (Oracle)	✓		
SQL (DB2)	✓		
SQL (PostgreSQL, Netezza)	\checkmark		
Spark SQL	✓		
SQL Python	✓		
SQL in R & SparkR	✓		
PL/SQL (stored procedures) Future			
SQL PL (stored procedures)	Future		

Mix Any Combination of Data Sources			
Oracle	√	Excel	✓
Db2 (software, appliance, cloud)	√	CSV (delimited text)	√
Netezza	√	Cloudera	✓
PostgreSQL	✓	Teradata	✓
Informix	✓	Db2/Z	✓
MySQL	✓	MongoDB	Future
SQLServer	√	DVM	Future
DerbyDB	✓	Redis	Future
Big SQL	√	Cloudant	Future
Db2 Event Store	√	Greenplum	Future

ICP for Data

Use Case: Manage All Your Data – regardless of where it lives





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