

DEVELOPERS SERGIPE SUMMIT 2019

Conectando pessoas!

15 de novembro de 2019
Aracaju/SE





SQLSERVER 2019 – O que temos de novo?

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IT Manager – Cencosud Brasil



Sou David Couto,

Casado e pai dessas duas lindas princesas
Sergipano apaixonado por tecnologia
Amante por desenvolvimento de aplicações
DBA por formação (MCT, MCP e MCITP)
e louco por inovação.

Pode encontrar meu perfil em:

@davcoutho  





Patrocinadores

desenvolvedor.io



Apoio



#developerssergipe

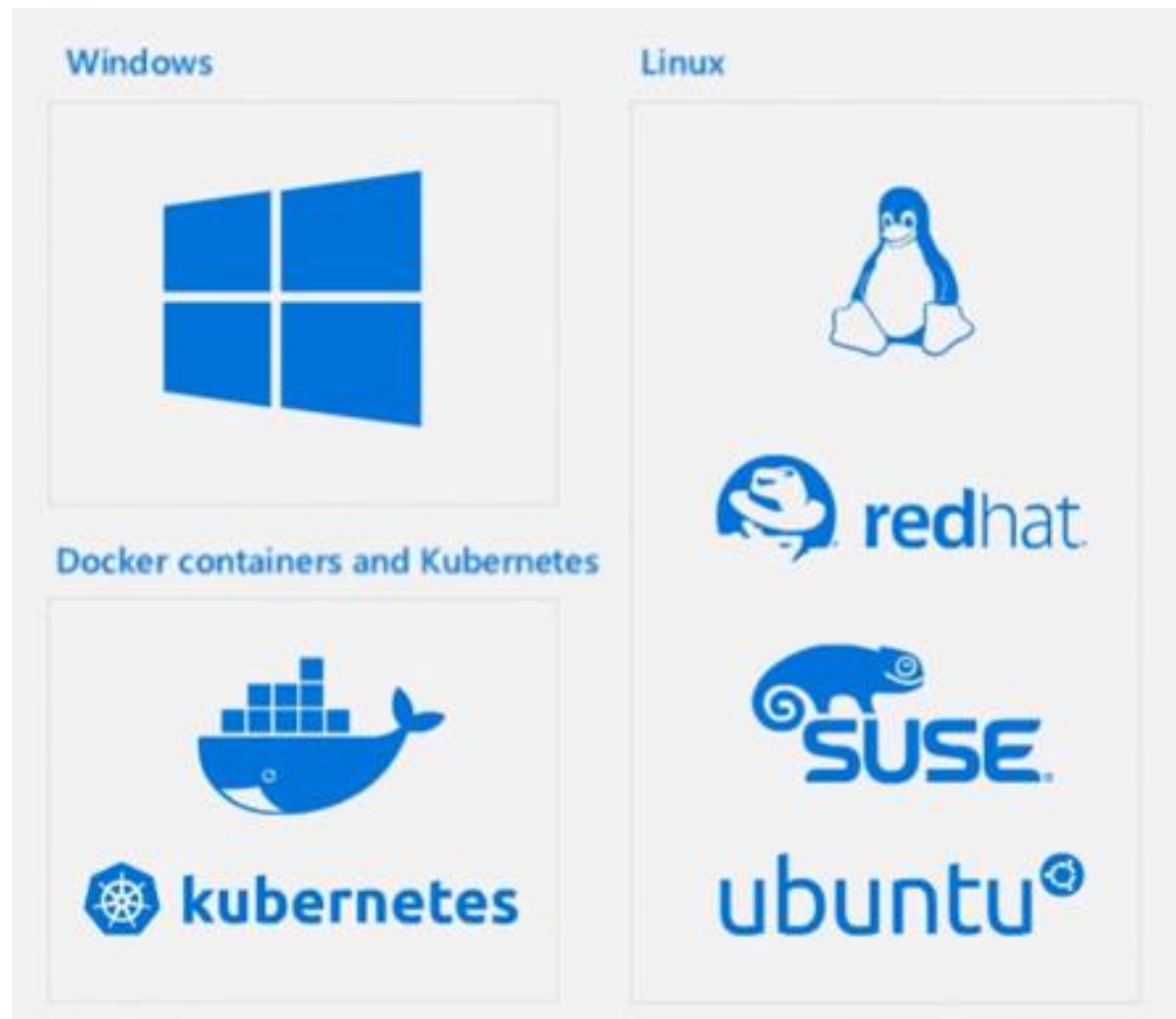
Agenda

- Flexibilidade da Plataforma
- Virtualização de Dados
- Ambiente de Missão Crítica em Cluster Kubernetes
- SQL BigData Cluster



Flexibilidade da Plataforma

Escolha sob qual plataforma você rodará seu SQL



SQL Server 2019

Industry-leading performance and security, with intelligence over all your data

Intelligence over
any data



AI and Machine Learning
over all data with the power
of SQL and Apache Spark

Choice of platform
and language



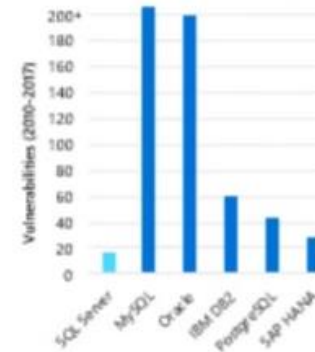
T-SQL	PHP	Python
Java	Node.js	Ruby
C/C++	C#/VB.NET	

Industry-leading
performance



#1 OLTP performance¹
#1 DW performance on
1TB², 10TB³, and 30TB⁴
Intelligent Query Processing

Most secure
over the last 8 years⁵



Insights in minutes
and rich reports



The best of Power BI and
SQL Server Reporting Services
with Power BI Report Server



Private cloud

In-memory across all workloads

Most consistent data platform

1/10th the cost of Oracle



Public cloud

All TPC Claims as of 1/19/2018.

¹ <http://www.tpc.org/4081>; ² <http://www.tpc.org/3331>; ³ <http://www.tpc.org/3326>; ⁴ <http://www.tpc.org/3321>; ⁵ National Institute of Standards and Technology Comprehensive Vulnerability Database

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Virtualização de Dados



SQL Server 2019 enables intelligence over all your data



Integrating all data

Unified access to all your data with unparalleled performance



Managing all data

Easily and securely manage data big and small



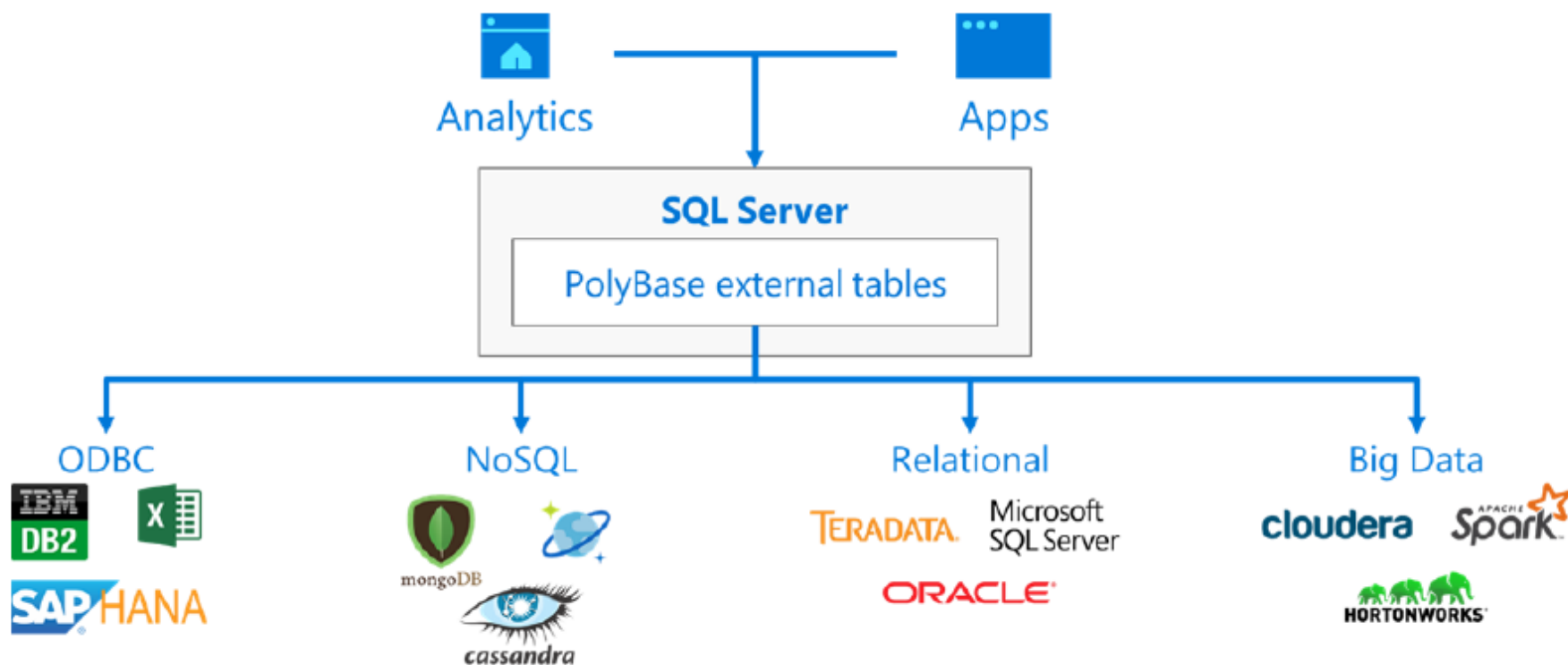
Analyzing all data

Build intelligent apps and AI with all your data



Simplified management and analysis through a unified deployment, governance, and tooling

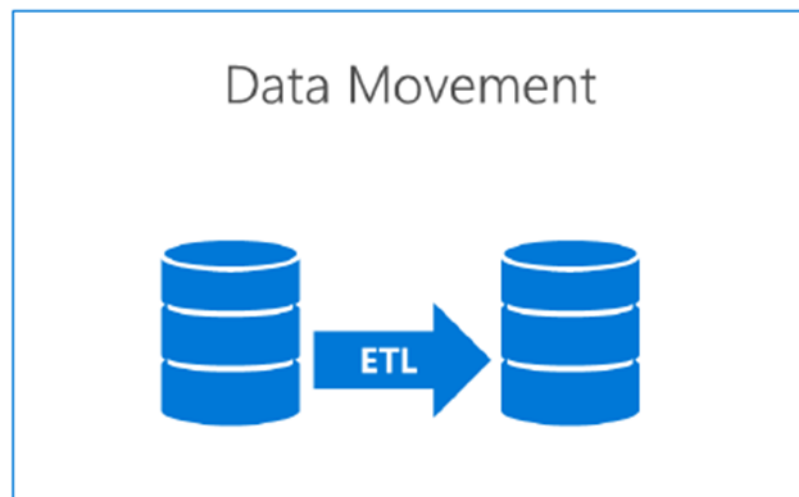
Agora, o SQL é um HUB para integração de Dados





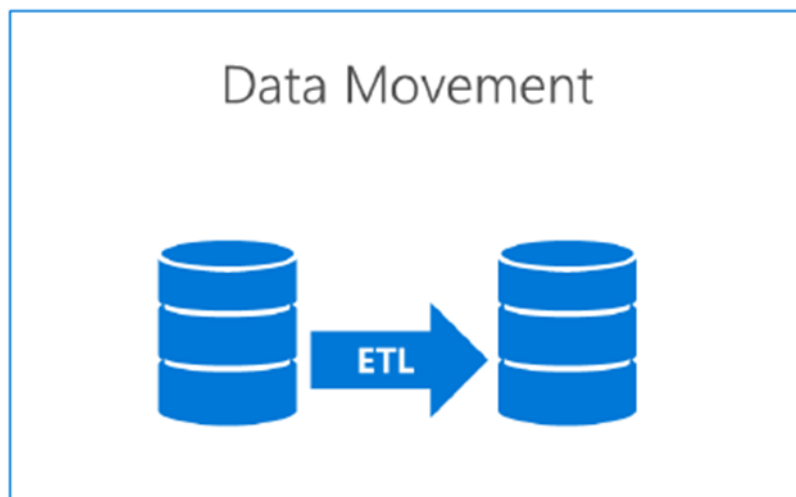
Integração de Dados

Antes

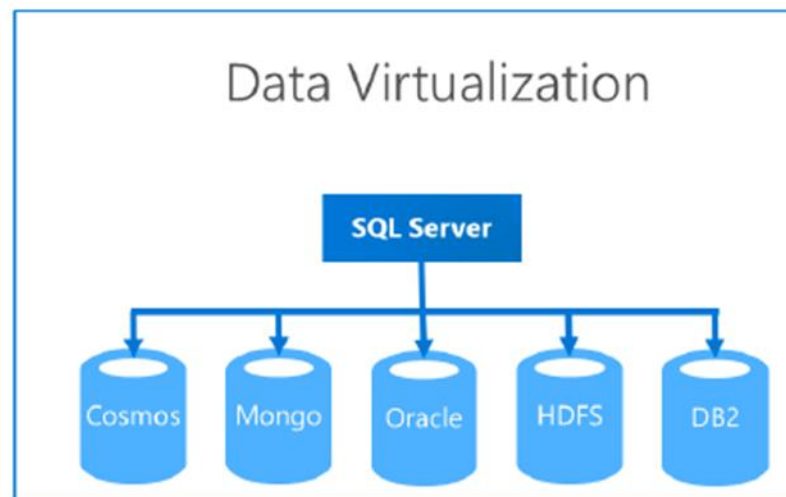


Integração de Dados

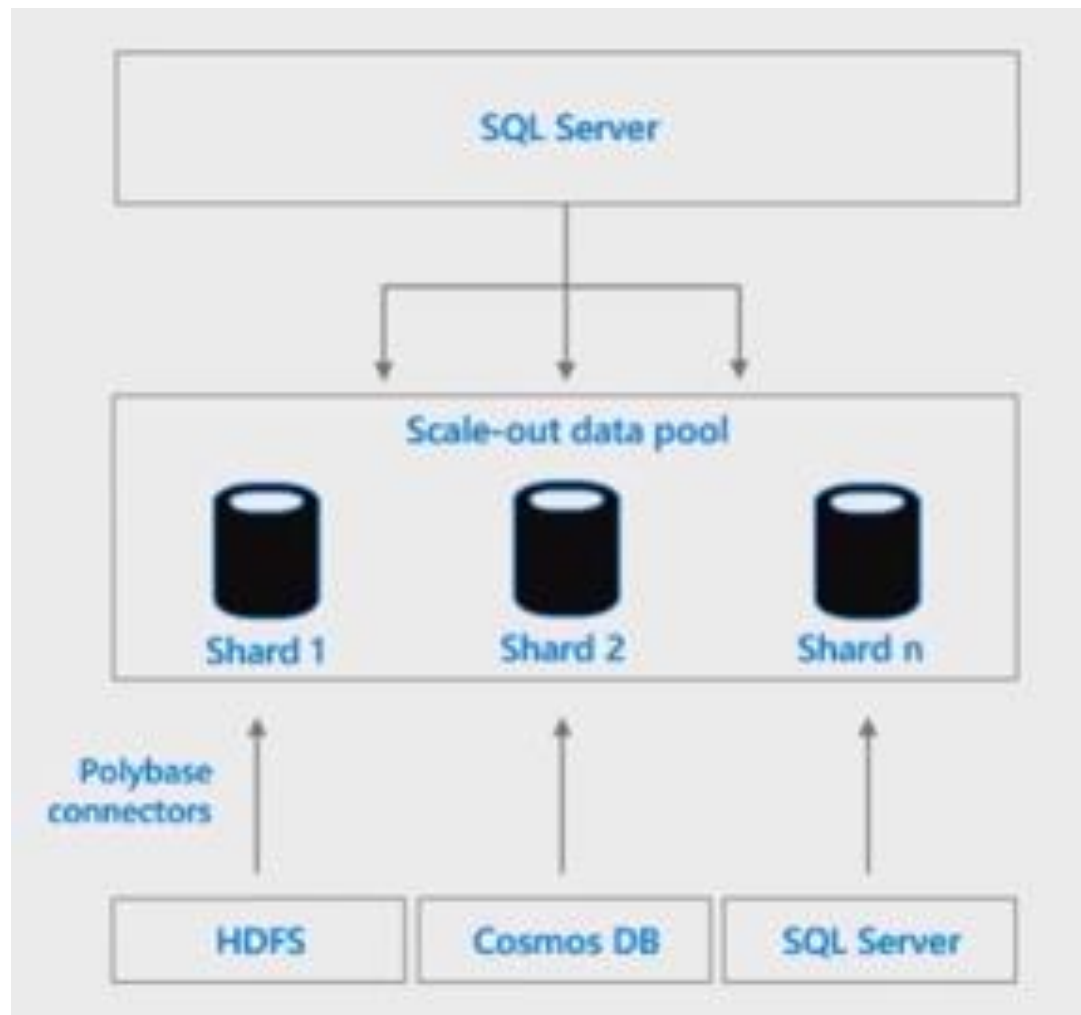
Antes



Com o SQLServer 2019



Virtualização de Dados





Azure Data Studio File Edit View Window Help 15.226.40.8,31433

Create External Table

Step 3
Create a connection to your Data Source

External Data Source Name * ⓘ OracleTable

Server Connection

Server name * aps40-10.oltp.sql.cass.hp.com

Database name * XE

Configure Credential

Choose Credential * ⓘ OracleCred

New Credential Name *

Username *

Password *

Previous Next Cancel



Azure Data Studio File Edit View Window Help 15.226.40.8,31433

Create External Table

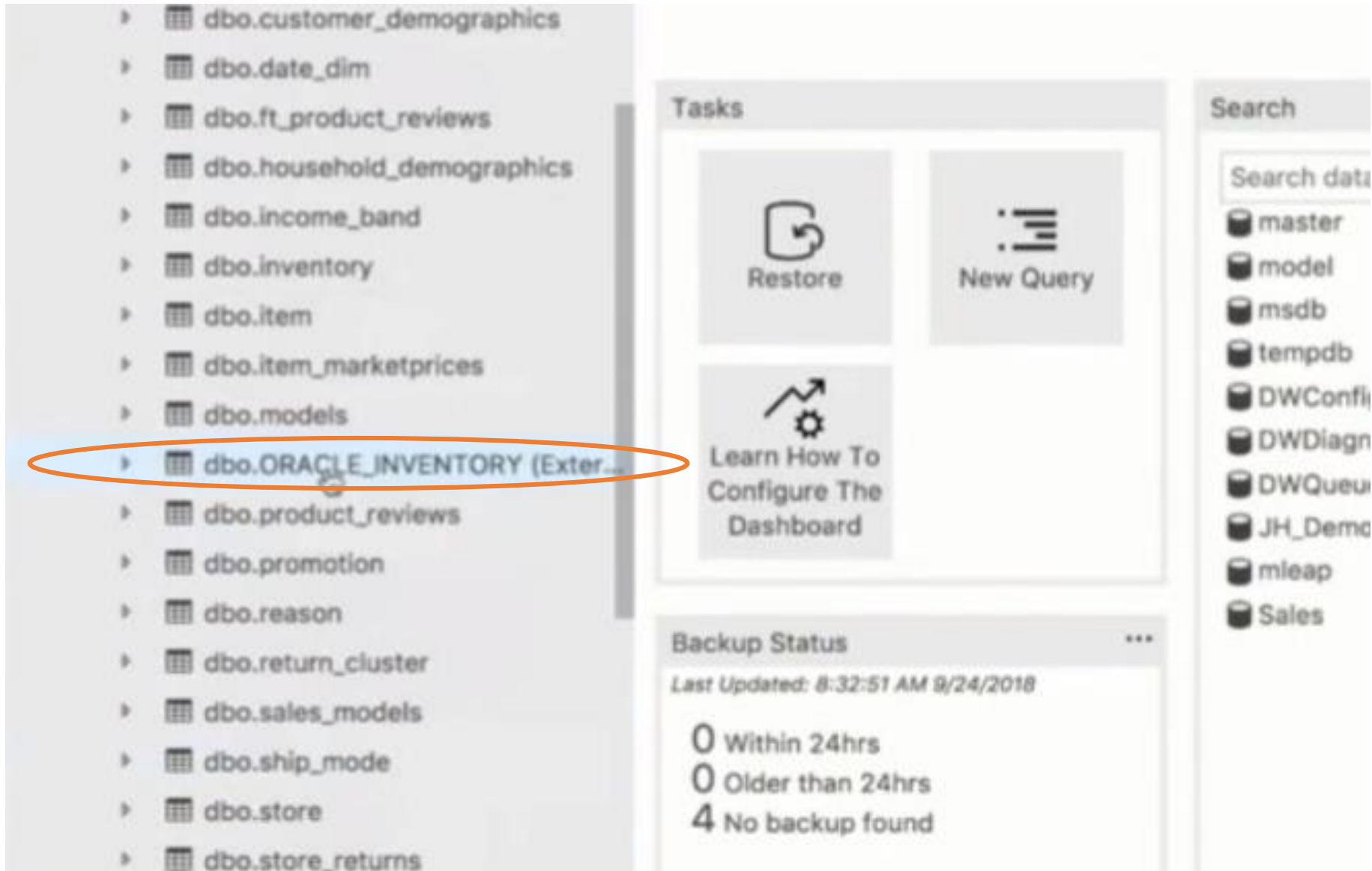
Source table: To External table:

Mapping

Source	External	SQL Data Type	Nullable	Collations
INV_DATE	INV_DATE	DECIMAL(10,0)	<input type="checkbox"/>	
INV_ITEM	INV_ITEM	DECIMAL(10,0)	<input type="checkbox"/>	
INV_WAREHOUSE	INV_WAREHOUSE	DECIMAL(10,0)	<input type="checkbox"/>	
INV_QUANTITY_ON_HAND	INV_QUANTITY_ON_HAND	DECIMAL(10,0)	<input checked="" type="checkbox"/>	

The connection does not support MultipleActiveResultSets.

Previous Next Cancel



The screenshot displays a data warehouse management interface. On the left, a list of tables is shown, with **dbo.Oracle_INVENTORY (Ext...** highlighted by an orange oval. The central panel features a 'Tasks' section with buttons for 'Restore', 'New Query', and 'Learn How To Configure The Dashboard'. Below this is a 'Backup Status' section showing the last update time and counts for backups within 24 hours, older than 24 hours, and no backups found. On the right, a 'Search' section lists various databases including master, model, msdb, tempdb, DWConfig, DWDiagn, DWQueue, JH_Demo, mleap, and Sales.

Table Name
dbo.customer_demographics
dbo.date_dim
dbo.ft_product_reviews
dbo.household_demographics
dbo.income_band
dbo.inventory
dbo.item
dbo.item_marketprices
dbo.models
dbo.Oracle_INVENTORY (Ext...
dbo.product_reviews
dbo.promotion
dbo.reason
dbo.return_cluster
dbo.sales_models
dbo.ship_mode
dbo.store
dbo.store_returns

Tasks

- Restore
- New Query
- Learn How To Configure The Dashboard

Backup Status

Last Updated: 8:32:51 AM 9/24/2018

- 0 Within 24hrs
- 0 Older than 24hrs
- 4 No backup found

Search

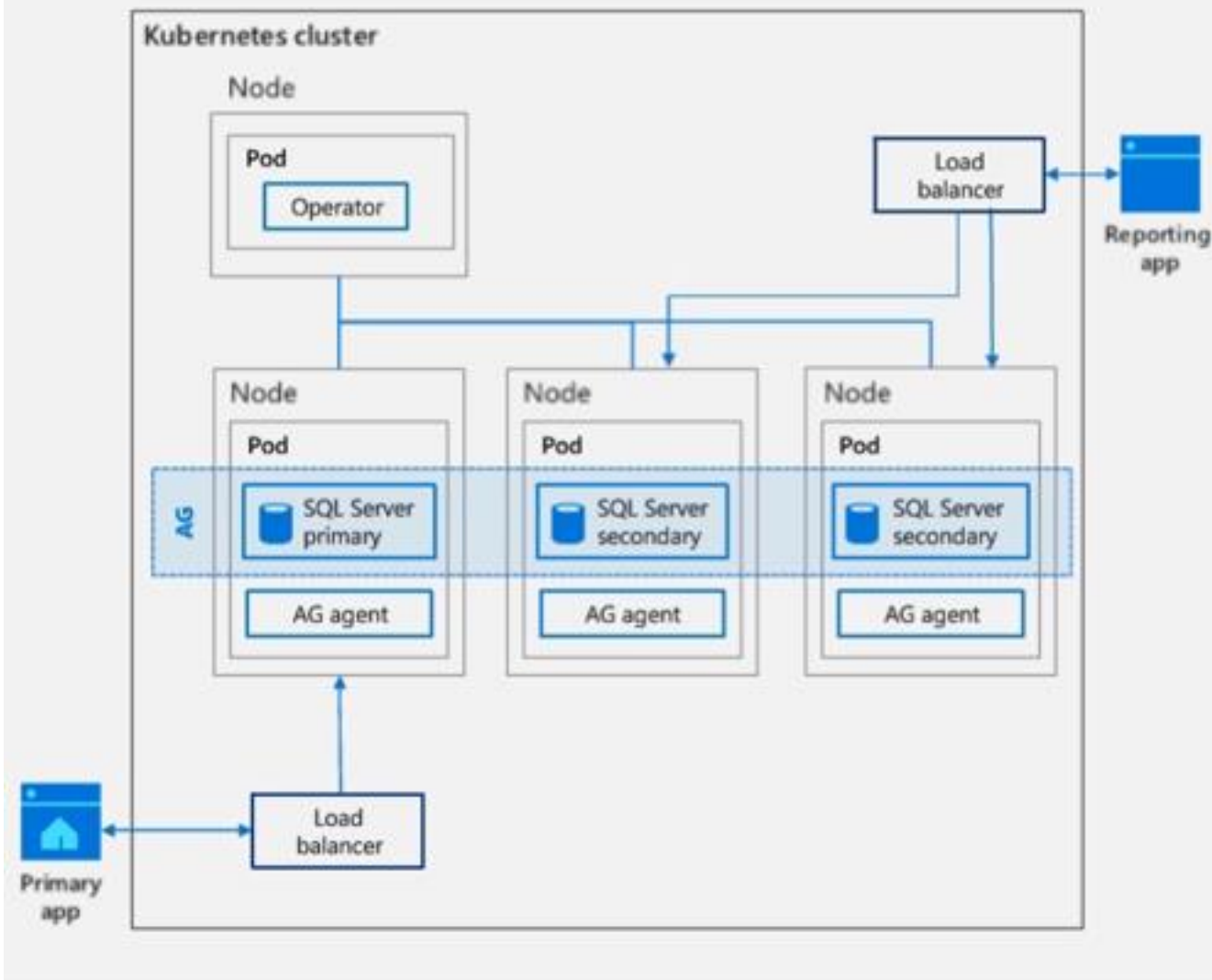
Search data

- master
- model
- msdb
- tempdb
- DWConfig
- DWDiagn
- DWQueue
- JH_Demo
- mleap
- Sales

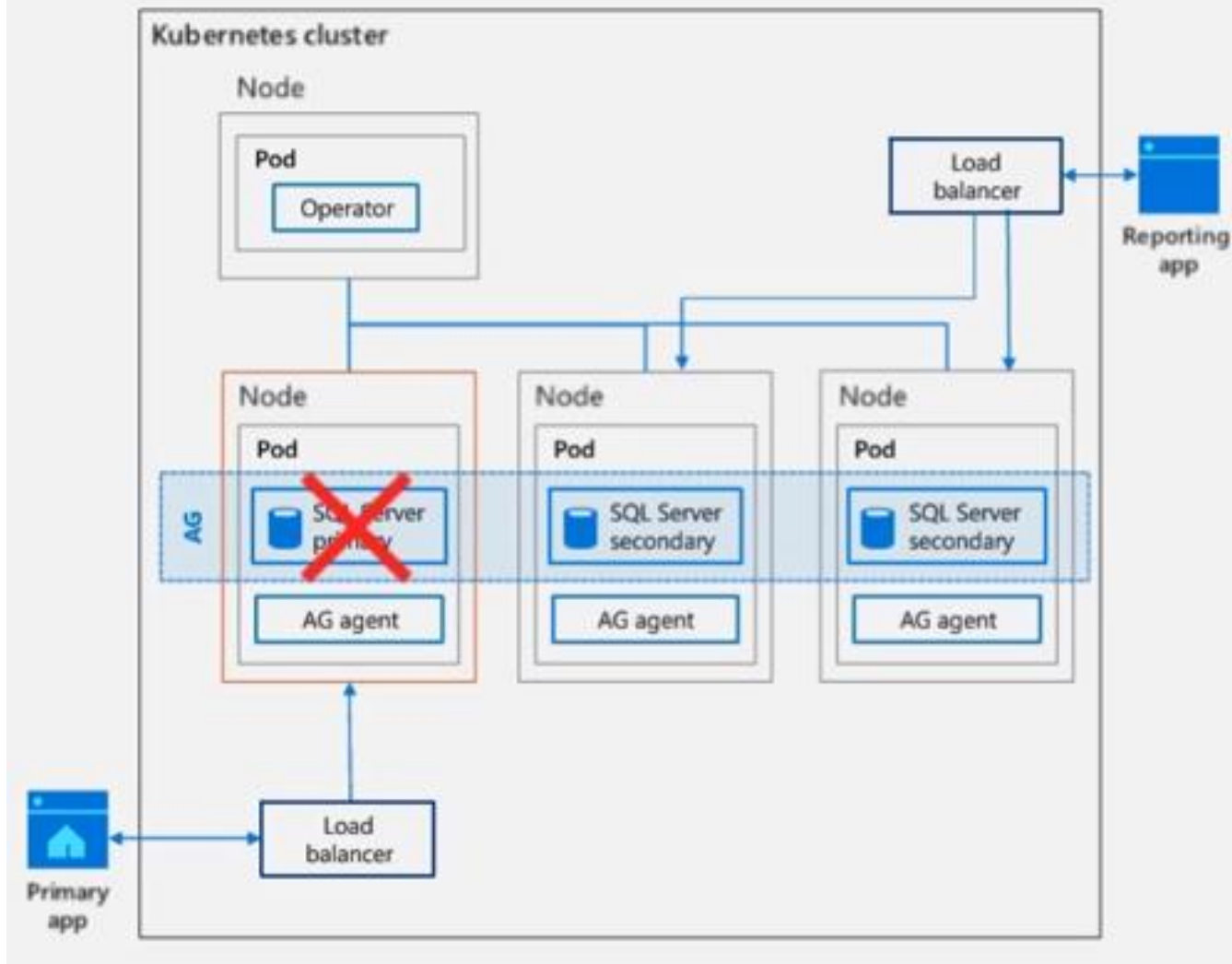


Ambiente de Missão Crítica em Cluster Kubernetes

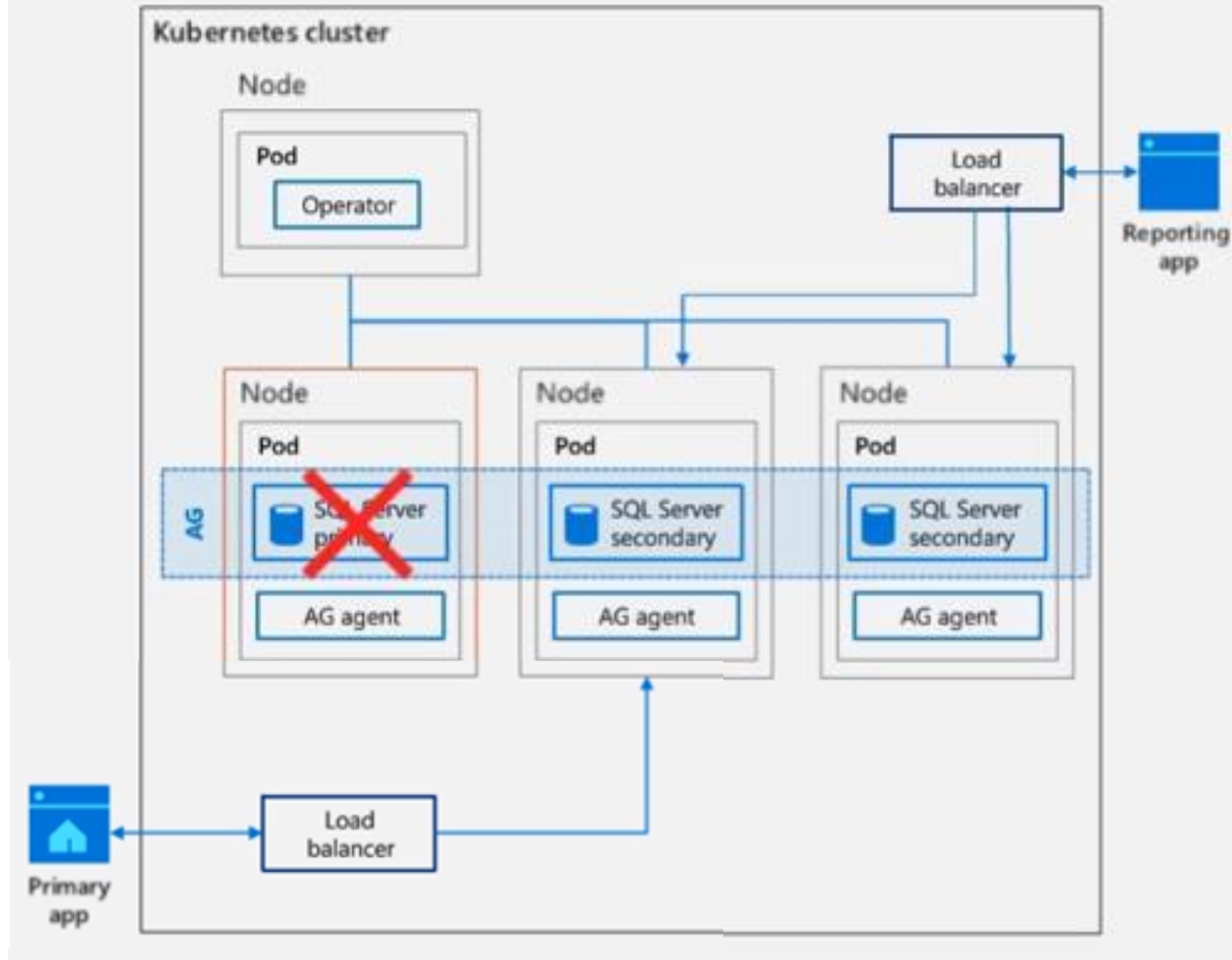
Availability groups on Kubernetes



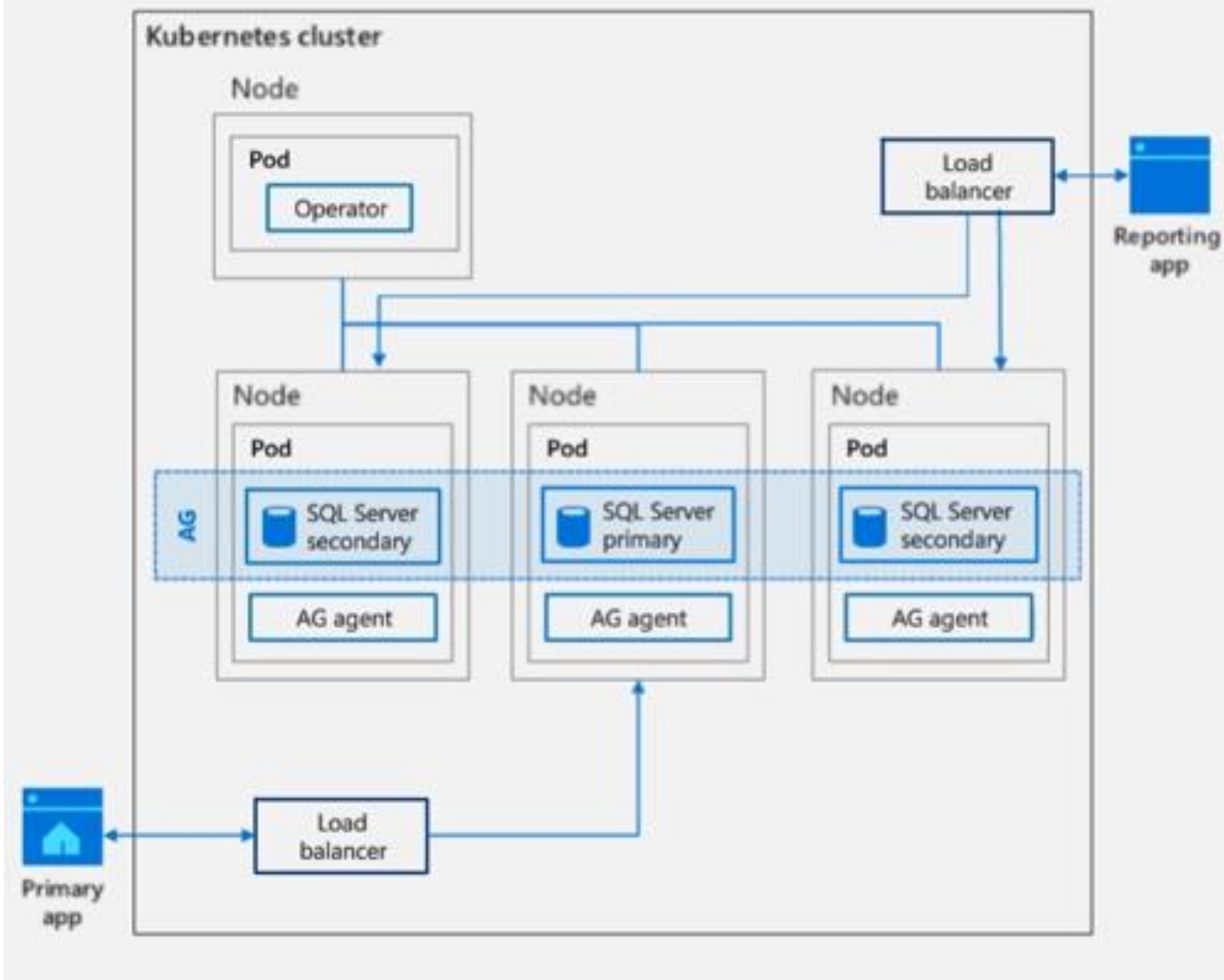
Availability groups on Kubernetes



Availability groups on Kubernetes



Availability groups on Kubernetes

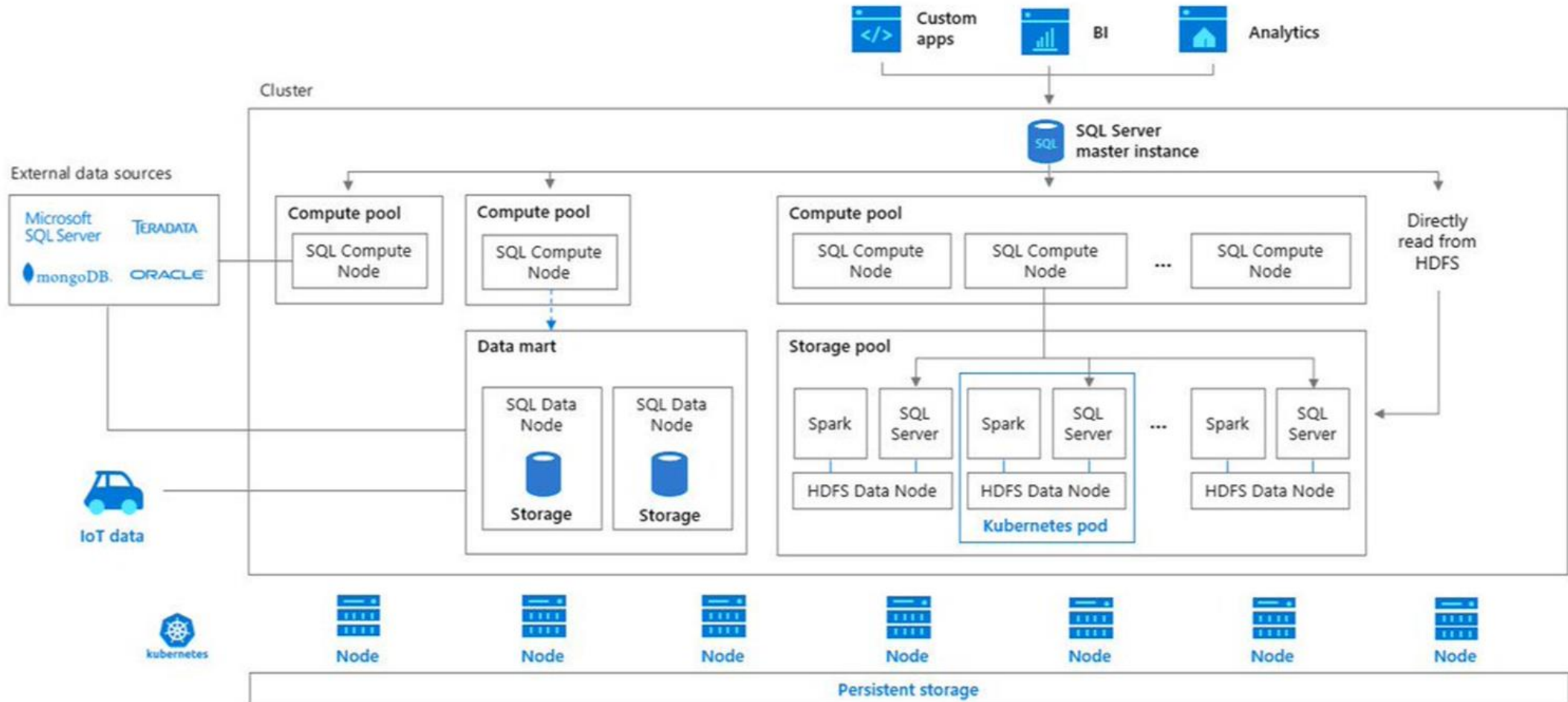




SQL BigData Cluster



SQL Server big data clusters





Por que SQL Server 2019?

1. Harness the power of big data



Big data clusters with scalable compute and storage composed of SQL Server, Spark, and HDFS. Cache data in scale-out data marts.

2. Bring AI to your workloads



A complete AI platform to train and operationalize models in SQL Server ML Services or Spark ML using Azure Data Studio notebooks.

3. Eliminate the need for data movement



Data virtualization allows queries across relational and non-relational data without movement or replication.

4. Explore and interact with visual data



Visual data exploration and interactive analysis using SQL Server BI tools and Power BI Report Server.

5. Run real-time analytics on operational data



In-memory technologies for analytics on operational data using HTAP. Higher concurrency and scale through persistent memory.

6. Automatically tune SQL Server



Intelligent Query Processing improves scaling of queries and Automatic Plan Correction resolves performance problems.

7. Reduce database maintenance and increase business uptime



Greater uptime with more online indexing operations. Now run Always On availability groups on containers using Kubernetes.

8. Boost security and protect data in use



SQL Server enables layers of security including protection of computations in Always Encrypted secure enclaves.

9. Track compliance with sophisticated resources



Data Discovery & Classification labeling for GDPR and Vulnerability Assessment tool to track compliance.




10. Optimize with choice and flexibility



Support for your choice of Windows, Linux, and containers. Run Java code on SQL Server and store and analyze graph data.



Referências

-  <https://cloudblogs.microsoft.com>
-  <https://docs.microsoft.com>
-  <https://www.microsoft.com/en-us/sql-server/sql-server-2019>

Brindes



**Ao final do evento, faremos
sorteios de brindes!**



OBRIGADO



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