

The Ultimate Data Warehouse System

Scale Out Flexibility, Massive Parallel Processing, Huge Data (No Limit)





Deepgreen is a product of Vitesse Data Inc, proudly presented by Equnix Business Solutions, Pte Ltd. Deepgreen is a clustering database system especially made for Data Warehousing

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PT Pelabuhan Indonesia II (Persero)

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DINAS KOMUNIKASI, INFORMATIKA DAN PERSANDIAN ACEH

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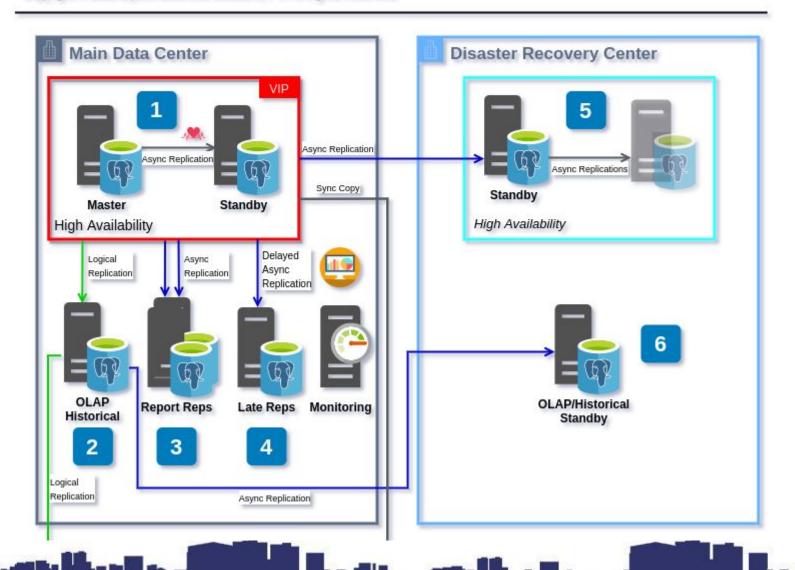




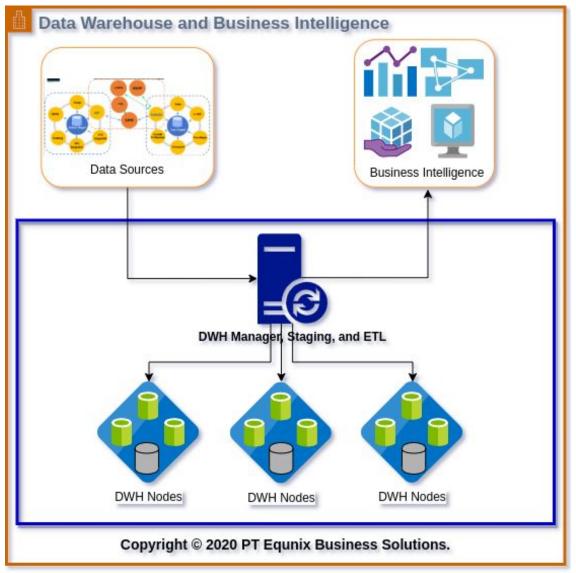
Enterprise Production Database

Complete General Topology

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What is Data Warehouse?



Now presenting to you..

Deepgreen

A Data Warehouse Solution derived from PostgreSQL



What is Deepgreen?

- Scalable MPP Data Warehouse.
- Better Join and Aggregation algorithms
- New subsystem to handle spills and
- JIT-Compiled
- Vectorized Scans, and
- Data-path Optimization.

DEEPGREEN

https://equnix.asia/product/datawarehouse

Worldwide Deepgreen **Customers & Partners**









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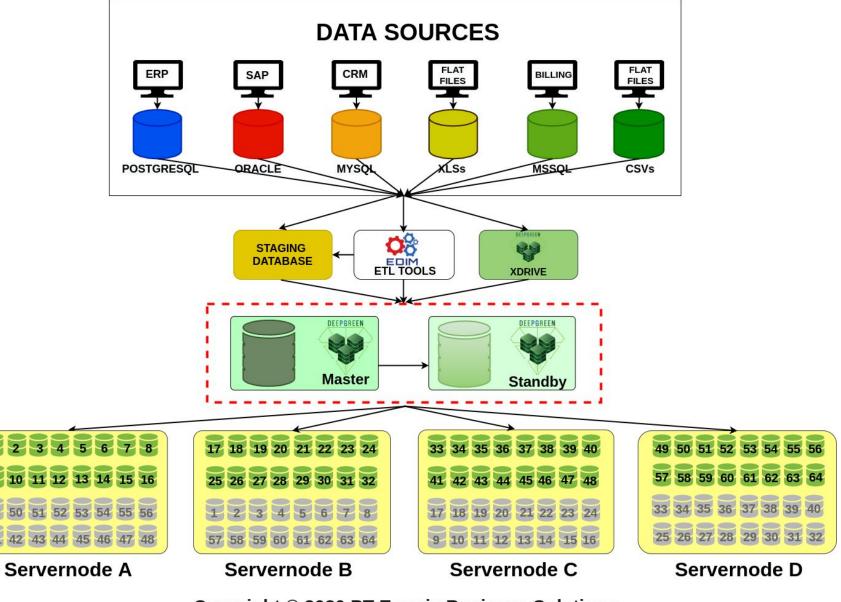






Data Warehouse System Grand Design

- 1. Reliability
 - a. Secure
 - b. Stable
 - c. Low Maintenance
- 2. Availability and,
 - a. Backup and
 - b. Redundancy
- 3. Scalability
 - a. Load Balancing
 - b. Data expansion
 - c. Data redistribution
 - d. Huge database (PetaByte Ready)



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Why Deepgreen?



More Speed

- 5X faster than Greenplum.
- comes with many OLAP specific optimizations.



More Connected

- Connect effortlessly to cloud storage and data sources.
- Storing the fact tables on HDFS/S3.
- Fresh data can be queried dynamically.



More Intelligent

 Tight integration with Tensorflow.





What is Xdrive?

- Xdrive is a Deepgreen DB connectivity service that extends the reach of Deepgreen to external data sources through foreign drive.
- Deepgreen DB is able to read/write from/to a myriad of data management systems, including Amazon S3, HDFS, Oracle, and Elastic Search.

Xdrive Characteristics

Using Xdrive, Deepgreen DB is able to scan external tables at tremendous speed due to these underlying architectural choices:

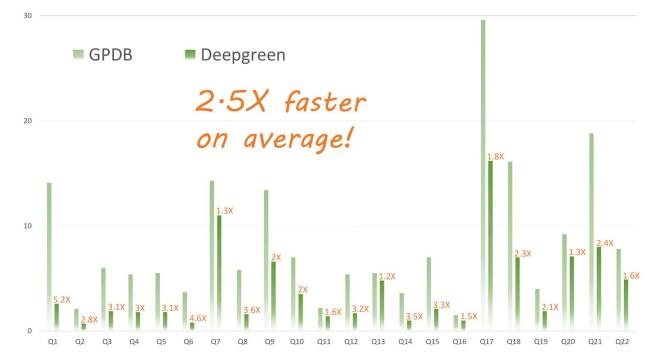
- High Bandwidth
- Pushed-down Filters
- Elasticity

TPC-H 10G Results

All 22 queries of TPC-H are measured against Greenplum DB and Deepgreen DB. Q1 and Q5 are specifically graphed below for comparisons.

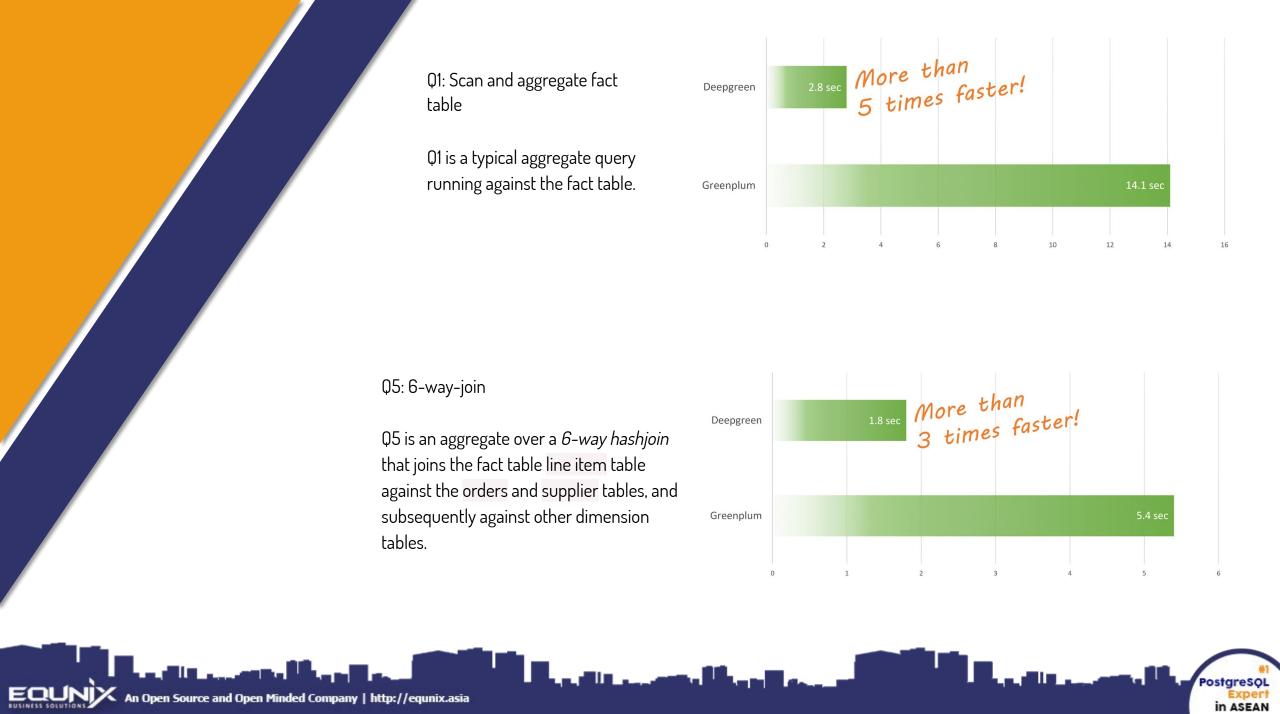
All Result

Raw result: Deepgreen DB vs Greenplum DB using Heap Tables









Deepgreen Performance on XEON-2643

Reporting Queries Comparison						
No	Query Report Name	Oracle (in minutes)	Deepgreen (in minutes)	Speed Gain	Total Row Count	
1	flat_price	85	2.8	21500%	663,034	
2	sales_flyer_sli	25	2.4	830%	104	
3	profit_mtd_lost	7.5	3.3	2121%	383,359	
4	daily_lmi	120	10	1200%	154	



Deepgreen Hardware Specification XEON-2643

Deepgreen Server Hardware Specification			
Machine Type (HT)	Type (HT) Intel(R) Xeon(R) CPU E5-2643 @ 3.30GHz (16 HT)		
RAM	64 GB		
Disk	PCI SSD NVMe Samsung Pro 960 2 TB		
Kernel Version	Linux 3.16.0-8-amd64		
Operating System	Debian GNU/Linux 9 (stretch)		

Oracle Data Source Server Hardware Specification		
Machine Type (HT) Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GH:		
RAM	64 GB	
Disk	SSD 2.7 TB	
Kernel Version	Linux 3.10.0-514.10.2.el7.x86_64	
Operating System	Centos 7.3	





Deepgreen Performance

	Reporting Queries Comparison							
No	Query Report Name	Oracle (in seconds)	Deepgreen (in seconds)	Speed Gain	Total Row Count			
1	stok_teknisi	37	4.8	770%	408,122			
2	provisioning_v2	33	19.6	173%	233,291			
3	kumulatif	2	0.4	500%	24,338			
4	out_project	17	0.7	2420%	465,676			



Deepgreen Hardware Specification EPYC-7742

Deepgreen Server Hardware Specification			
Machine Type (HT)	AMD EPYC 7742 64-Core Processor (128 H		
RAM	128 GB		
Disk	PCI SSD NVMe Samsung Pro 960 2 TB		
Kernel Version	rsion Linux 4.19.0-10-amd6		
Operating System	Debian GNU/Linux 10 (buster)		

