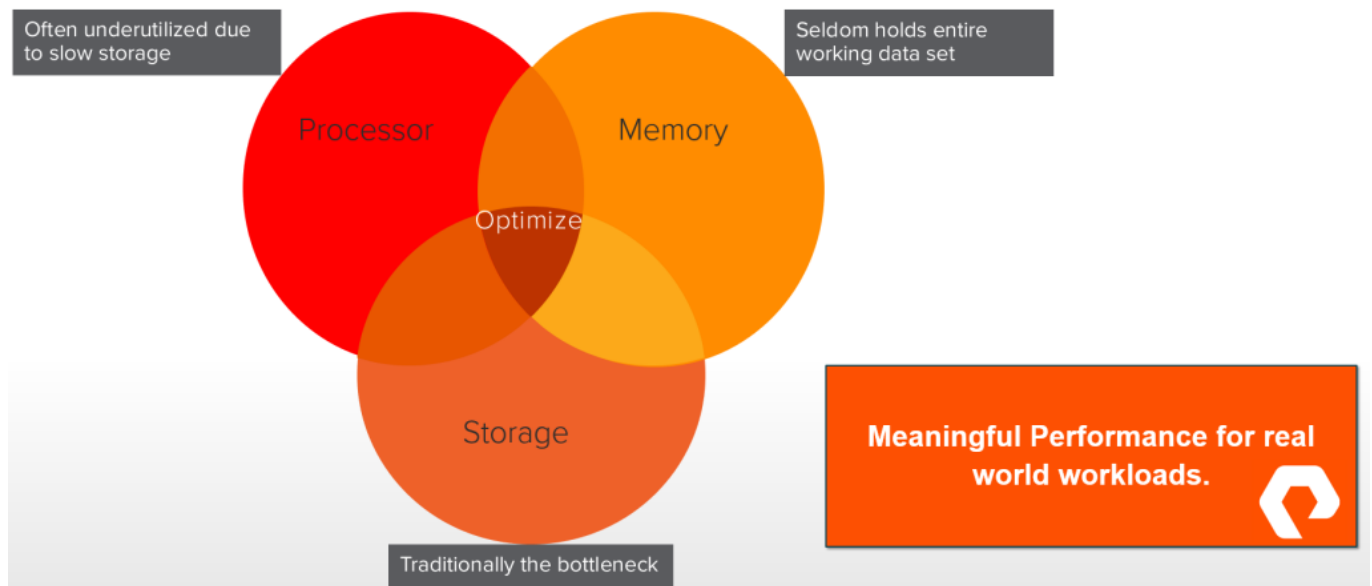


# SQL Server Data Warehouse Infrastructures Striking the Right Balance

Installing the fastest processors without considering the configuration as a whole, storage, memory, switch, etc. can lead to disappointing long-term results, when you need to scale. Testing configurations on your own can be costly and time consuming. Learn more about SQL Server Data Warehouse infrastructures.

Here at Pure Storage we strive for meaningful performance with a focus on optimization of resources not the usual industry chest pounding that highlights only a single benchmark score or metric. Nobody wants their expensive processors waiting around for work, the FlashArray //m 20 with our Purity operating environment and solid-state flash storage work together eliminating storage as the bottleneck.

## RESOURCE UTILIZATION DATABASE ENVIRONMENTS



The SQL Server 2016 DWFT Data Warehouse Fast Track reference architecture design takes the guessing out of building your data warehouse infrastructure. These reference architectures are certified using bandwidth demanding workloads to meet query performance and scale requirements designated by the Microsoft SQL Server Performance team.

Try out [FlashBlade](#)

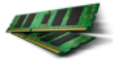
Cisco c240 M4 Server



2 Socket  
Compact 2-rack-unit  
E5-2630 v4 2.2GHz



512GB DRAM



Cisco MDS 9148S Switch



16G Multilayer Fabric  
48 auto-sensing line-rate  
16-Gbps FC ports  
Compact 1-rack-unit

**PURESTORAGE**  
FlashArray //m20 20TB



<1ms Average Latency  
Up to 5 GB/s Bandwidth

NV-RAM  
MODULES



FLASH  
MODULES



## BALANCED PREDICTABLE RESULTS

Rated User Data Capacity

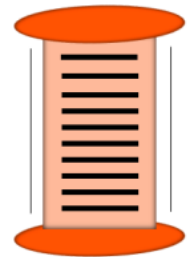
**23TB**



Row Store I/O Throughput

**3,530 MB/S**

Avg. CPU Utilization



Column Store Throughput

**1,710 QUERIES/HR/TB**

Avg. CPU Utilization



Using the Cisco c240 M4 server for compute and [Pure Storage FlashArray //m20](#) as a storage foundation is a winning combination that removes traditional bottlenecks resulting in a balanced solution for your data warehouse needs.

**[Microsoft SQL Server Data Warehouse Fast Track Certification](#)**