



**Hewlett Packard
Enterprise**

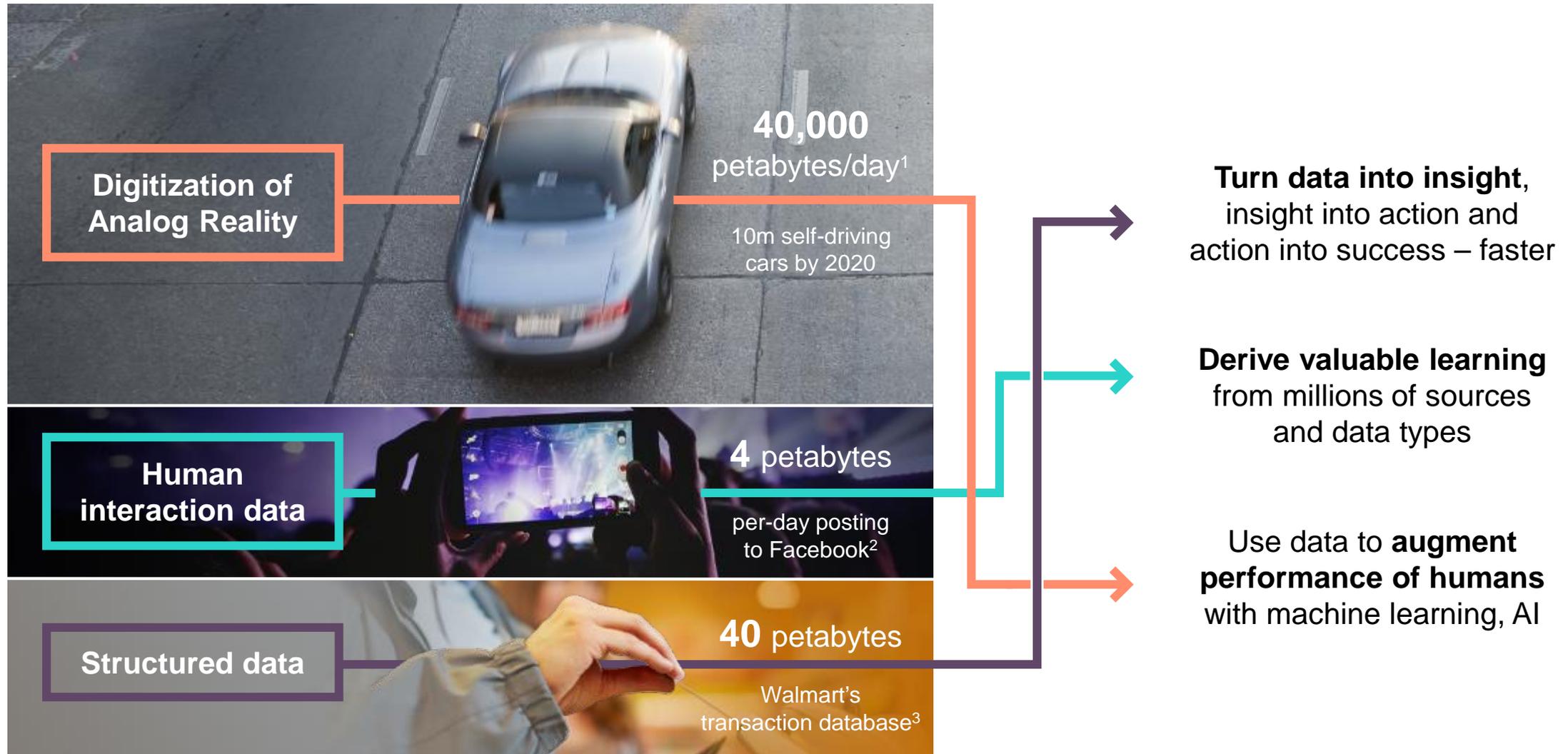


SQL Server 2017 for your Mission Critical applications

Turn your critical data into real-time business
insights

September 2018

Turn data into insights with advanced data and analytics platforms



Harness data in real-time to transform your business

Converging transactions and analytics at the core



Accurate and instantaneous service personalization



Real-time portfolio risk estimation



Hyper-individualized patient treatment



Real-time demand/supply matching



Immediate response to security threats

Visionary innovation to address the data dilemma

Embrace the possibilities of a world transformed by exponential data growth

Turn data into actionable insights in real time



Speed to insight

Keep pace with evolving business demands



Flexibility and agility

Safeguard your mission-critical workloads



Continuous business



**The performance and scale you need
to turn critical data into real-time insights**

Solve your most demanding SQL Server challenges

Gain real-time insights on your operational data

Microsoft
SQL Server



Modernize business processing



Accelerate analytics



Optimize infrastructure

Scale-up compute for your largest workloads

- Avoid cluster latency
- Support high transaction rates on critical OLTP applications

Breakthrough in-memory performance

- Accelerate transactions
- Leverage current transaction data for real-time analytics

Right size for every mission-critical workload

- Start at 4-sockets, and grow with your needs
- Gain tremendous savings from Oracle replacement

Avoid inefficiency, cost and complexity

- Simplify managing your environment by consolidating hundreds of SQL Server instances onto a single server

Solve your most demanding SQL Server challenges

New HPE Superdome Flex for mission-critical Linux workloads

Capitalize on flexible scale-up capacity

- Scale from 4-32 Intel Xeon Scalable processors and 768GB-48TB memory – as a single server!
- Consolidate SQL Server instances onto a single system
- Eliminate cluster complexity and deliver greater OLTP performance

Right size every mission-critical workload

- Start with 4-socket/8-socket size (at 45% lower cost!), then grow
- Run your core business applications on SQL Server
- Modernize and migrate Oracle and IBM databases to SQL Server
- Equip for tomorrow's growth without overprovisioning

Safeguard SQL Server with end-to-end reliability

- Proven Superdome RAS—99.999% single system availability
- Error analysis engine, advanced memory resiliency, self-healing
- HPE Serviceguard fortifies Linux workloads for HA

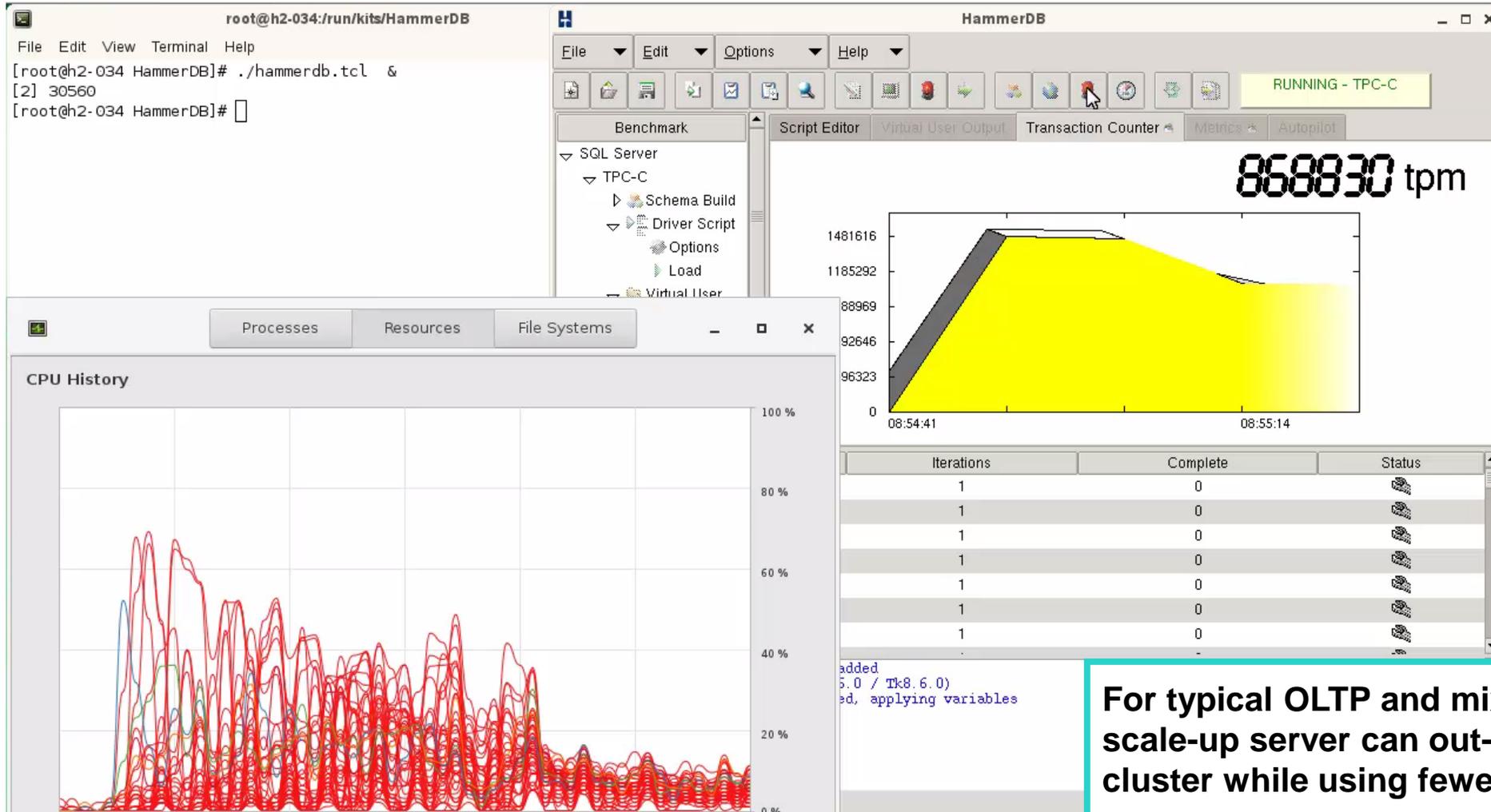
Modular, 4-socket building block enables you to add server capacity seamlessly (no forklift upgrades)



HPE and Microsoft engineering teams work together to optimize SQL Server performance on HPE Superdome



An 8-socket Superdome Flex in action with SQL Server on Linux



Test performed with RHEL 7.4 and HPE Superdome Flex with eight Intel Xeon Scalable processors

For typical OLTP and mixed workloads, a scale-up server can out-perform a scale-out cluster while using fewer processor cores

Solve your most demanding SQL Server challenges

HPE Superdome Flex for mission-critical SQL on Linux and Windows workloads

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Fortifying Linux with Serviceguard

High Availability (HA) & Disaster Recovery (DR) for mission critical applications

Unattended Recovery



Fully Automatic: Enable quick recovery and avoids human errors
Quick Failure Detection: Recover in as fast as **four seconds**¹
Application Aware: Application context aware smart recovery and automation
Disaster Recovery: Seamlessly recover workloads across any distance

Preserve Data Integrity



Data Integrity: SCSI 3 PR, Dynamically Linked Storage, Deadman, smart quorum
Robust Algorithm: Comprehensive failure detection (hardware, software, OS, application)

Easy to Deploy and Maintain



Out-of-box integration: **93%**² set up time reduction for DB's like Microsoft SQL
Powerful GUI: Setup a cluster in 10 clicks, multi cluster management
Non Disruptive maintenance: Rolling upgrades, Live Application Detach for live upgrades
Seamless Virtualization Integration: Clustering that complements virtualization strengths

¹ Failover recovery observed in HPE internal lab testing. System was based on an HPE ProLiant DL380 Gen9 Server (two Intel® Xeon® processors, eighteen computing cores each) with Red Hat® Enterprise Linux 7.1 running HPE Serviceguard 12.00.30. Configuration-dependent excluding cluster reformation time

² Based on HPE internal lab analysis that shows typical manual effort for integrating Oracle Database into a cluster to require 30 engineering days. With Oracle toolkit from HPE, this integration is achieved in two engineering days or less.



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Thank you

www.hpe.com/superdome