Hewlett Packard Enterprise

HPE Mission Critical SQL Server Solution as a Service

Organisations are set to spend over $1 trillion in digital transformation.[1] Accelerate your digital transformation with a solution that delivers flexible, scalable, and reliable compute that you can consume as-a-service with on-premises control. HPE Superdome Flex 280 is designed for small to medium enterprise environments and can handle SQL Server user demand while delivering real-time analytics, comb through massive IoT and AI datasets at the edge or in the core.

TODAY'S CHALLENGES

Companies need to address SQL database growth and complexity. Both the number of users and databases are growing, leading to higher performance requirements. The need for high availability and increased security of SQL databases and applications is increasing. There is also an need to optimise costs and get the balance right between traditional on-premises and cloud models. Lines of Business don't want to have to wait on IT to enable new projects/ business models, and data centres don't want to have to have their own IT departments.

Consumption based models that help to reduce Data Centre footprint are becoming the norm. Many customers do not want to pay for massive over-provisioning costs, rather they rightly only want to pay for what's being used. Moving SQL environments to the cloud helps to provide the ability to set up instances on the fly, but at a premium. In most instances, however, it is the benefits of the cloud for business outcomes that customers are looking for, not necessarily the public cloud itself.

INDUSTRIES

Telco - Billing, Mediation

Banking - Core banking, Internet banking, Foreign exchange

Healthcare - Electronic Healthcare Records
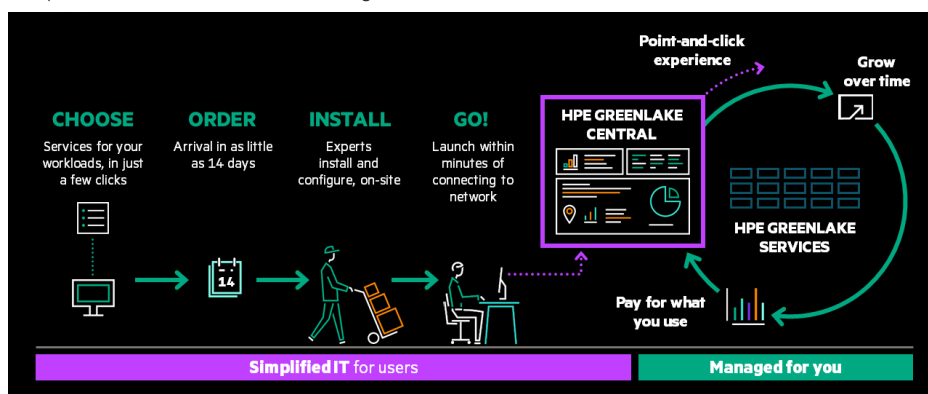
Manufacturing - ERP traditional

Public Sector - Payment processing Student registration

Online - Gaming Transactions

More Information

HOW CAN WE HELP?

HPE combines the power of Superdome Flex 280 with our GreenLake as-a-service offering to give you the best of both worlds. We give you a cloud-like experience with the choice to have a hybrid solution (on-premises, in the cloud , or at the edge).

BENEFITS

	Business Benefits	Financial Benefits
Efficiency	**IT Teams focused on innovation** Ease-of-use reduces distractions Routine tasks automated Install, maintenance, support by HPE	**Even lower OPEX** High-density IT reduces power, cooling, space, licensing costs Automation enables IT teams to do more IT management by HPE improves cost efficiency
Speed	**IT as fast as business** Infrastructure provisioned for new projects in hours Capacity scaled on demand	**Accelerated value** Composability & consolidation improves utilisation Only pay for what you use
Economics	**Value beyond public cloud** Cash flow protected Predictable costs	**Even lower CAPEX** Single platform for all workloads reduces hardware requirements No over-provisioning
Control	**Meet business and compliance obligations** Control security, deployment, operations, where data resides	**Lower infrastructure management cost** Automate tasks Integrate all management in HPE OneView

Video: HPE Solutions for Microsoft SQL Server 2019 with HPE Superdome Flex 280
Website: HPE Greenlake for Database Platform
Technical White Paper: Installing and running Microsoft Windows Server on HPE Superdome Flex 280

Solution Brief: HPE Solutions for Microsoft SQL Server
HPE Reference Architecture: Microsoft SQL Server 2019 on HPE Superdome Flex 280

HPE Superdome Flex 280 solution

Solve your SQL server challenges by scaling up your environment and speed up your digital transformation with an optimised, reliable infrastructure solution.

ABOUT

HPE Superdome Flex is a breakthrough server for diverse, data-intensive, and converging workloads, with a modular, building-block architecture for cost-efficient growth.

The family has expanded to include the HPE Superdome Flex 280, a new as-a-service building block for digital transformation.

The HPE Superdome Flex server model scales seamlessly from 4 to 32 sockets in 4-socket increments in a single system, and delivers from 768 GB to 48 TB shared memory. It features the 1st and 2nd generation Intel® Xeon® Scalable processors in both Gold and Platinum variants.

HPE Superdome Flex 280 server is a new model in the HPE Superdome Flex family. It starts at two sockets and scales up to eight sockets, as a single system in 2-socket increments. The server utilises a modular, scale-up 5U building block/chassis with two or four 3rd generation Intel Xeon Scalable processors (code name Cooper Lake) in a glue-less architecture. Superdome Flex 280 is designed to deliver 64 GB to 24 TB of shared memory using DRAM or combining DRAM with persistent memory.

Both models in the Superdome Flex family share the modular architecture design, as well as the management and security frameworks. In addition, they offer a unique set of reliability, availability and serviceability (RAS) capabilities not present in other standard x86 servers, to deliver the highest levels of availability for critical workloads. The family of servers can handle SAP HANA, Oracle, SQL Server, and Epic user demand while delivering real-time analytics. Customers can comb through massive IoT and AI datasets at the edge or in the core and they can also tackle complex problems holistically as a standalone HPC workhorse or within petascale clusters – and now with the Superdome Flex 280 we can address smaller environments and with more granular scale.

HPE'S SUPERDOME FLEX FOR SQL SERVER ENVIRONMENTS

There are 4 key reasons to choose the HPE Superdome Flex 280 solution.

Grow with flexibility
The modular architecture allows you to scale up as your databases grow in size and scope.

Harness proven performance
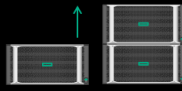We provide record OLTP and OLAP benchmarks and a balanced architecture.

Achieve mission-critical reliability
Our unique RAS features are fully leveraged by SQL Server software.

Protect critical data and workloads
The superior security in our system strengthens the SQL Server industry-leading security.

HPE SUPERDOME FLEX 280

- Modular, building block architecture
- **2-8 sockets** in 2 socket increments
- 64GB-24TB of shared memory
- Extreme RAS—Fast I/O

KEY RAS ADVANTAGES

RAS Feature
Firmware-first
Automatic error logging
Auto self-healing (Analysis Engine)
Disabling / deconfiguration of failed FRUs
Onboard fault analyser
Automatic restart after deconfig and self-healing
Advanced processor error handling (eMCA Gen2)
Advanced memory resiliency (HPE Fast Fault Tolerance)
Advanced PCIe error recovery (LER)

WHY YOU WILL LOVE US

You will get the flexibility of the cloud at the edge, in co-locations, and in your data centre.

It's easy to get started fast with right-sized configurations for your business.

You will love the simple self-service, point-and-click interface.

Scalable capacity makes it easy to start small and grow as business needs demand.

Pay-per-use metering avoids big upfront capital expenses and allows granular visibility into your costs and usage.

Like the public cloud, you can offload the burden of managing IT and focus on your apps.

OFFERING

HPE's Superdome Flex 280 solution includes:

Intel Processor - 8354H 3.1 GHz 18 Core CPUs
2 x 800 GB SSD Boot drives
Dual Port 32GB HBA
Dual Port 10GB NIC

from
$3,600
per month*

MICROSOFT SQL SERVER OPTIONS

SMALL	MEDIUM	LARGE
2 Socket – 32 Cores 384GB RAM	4 Socket – 64 Cores 768GB RAM	8 Socket – 128 Cores 1.5TB RAM
AU$3,600 / MONTH*	AU$5,680 / MONTH*	AU$8,424 / MONTH*

* Pricing as at July 2021 – Subject to change, not inclusive of Options

Optional
StoreOnce & Veeam for fast backup
Primera Tier 1 Storage
Alletra NVMe Storage

LEARN MORE AT
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