

HPE SOLUTIONS FOR ORACLE

Unique capabilities to solve Oracle challenges

With HPE Solutions for Oracle, you benefit from:

- **Infrastructure optimization**
 - The right mix of compute, storage, and I/O to improve performance per core and thus reduce licensing and support costs
- **Advantages of scale-up over scale-out**
 - Lower latency and high performance per core
 - Reduced management burden
 - Robust high availability and disaster recovery solutions
 - No-compromise migration from UNIX to x86
- **In-memory computing**
 - Accelerate analytics
 - Achieve real-time insights
- **Cloud economics and agility**

Increase Oracle® performance, keep critical databases available, and reduce licensing, infrastructure, and management costs.



ESCALATING ORACLE DATABASE CHALLENGES

If you use Oracle databases to manage your business-critical workloads—including online transaction processing (OLTP) and decision support systems (DSS)—you know first-hand about the power of Oracle, as well as the challenges:

- **Performance** can drop, impacting the business, as databases grow and infrastructure becomes overburdened.
- **Downtime** costs can range from tens to thousands of dollars per hour. As databases get bigger and backup windows get smaller, high availability is a must.
- **License** and support costs are significantly higher on RISC-based servers (such as IBM Power) and scale-out x86 systems than on scale-up x86 environments.
- **Hardware** costs when adding servers or increasing server size can be substantial. If these challenges sound familiar, perhaps the time is right to solve them with a trusted solution from HPE.

THE RIGHT MIX

Whether your organization is a mid-size business or a large enterprise, HPE provides the right mix of compute, storage, software, and cloud economics to match your unique requirements.

Reduce Oracle licensing costs

If your spending with Oracle has increased or requires optimization, we recommend using the HPE Database Performance Profiler (HPE DPP) to understand your workloads and find the right infrastructure mix to reduce costs. With this tool you can:

- **Gain insights into workload and usage patterns** around CPU, I/O, and networking
- **Consolidate server infrastructure** to increase compute power with fewer CPUs
- **Optimize Oracle licensing** to reduce costs by up to 50%

As an example, a European customer running Oracle Database 11g on a UNIX® platform required to move to 12c due to GDPR regulations. After analyzing their

Solution brief

workload with the DPP tool, HPE proposed a solution which helped them gain 50% higher compute performance and cut their Oracle license costs in half. The solution kept the same number of cores but based on an x86 architecture running on HPE Superdome Flex.

Right-size your Oracle compute

Reduce licensing costs and simplify your environment with the **HPE Superdome Flex family** of scale-up, mission-critical servers.

- Start at 2 and scale up to 8 sockets with **HPE Superdome Flex 280**, or at 4 and scale up to 32 sockets with **HPE Superdome Flex**
- Run your choice of Oracle Linux®, Red Hat® Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), and Microsoft Windows Server

Key takeaways

- **Optimize infrastructure** with the right mix of compute, storage, and I/O
- **Scale up from 2–8 sockets in a single system** with HPE Superdome Flex 280 or from 4–32 sockets with HPE Superdome Flex
- **Increase performance per core** to reduce operational expenses
- **Leverage Oracle in-memory database** to accelerate analytics, with up to 48 TB of shared memory in a single system
- **Eliminate cluster latency**, reduce license fees, consolidate databases, and simplify administration

- Leverage Oracle in-memory database to eliminate extract, transform, load (ETL) delays and achieve real-time analytics
- Improve performance by eliminating server cluster latency
- Avoid costly fees for Oracle Real Application Clusters (RAC)
- Gain unmatched scale-up capacity for Oracle in-memory database

Remove storage boundaries

HPE Primera combines autonomous operations with extreme resiliency and performance. With HPE Primera you can deploy a single Tier-0 architecture, and have all of the performance, scale, and density you need for Oracle database, plus end-to-end interoperability.

- Achieve high availability and simplify disaster recovery. Significantly reduce RPO and RTO for Oracle RAC stretched clusters, same-campus remote copy, and long-distance remote copy
- Save licensing on Oracle Data Guard, with HPE Primera Oracle database replication
- Manage with intelligence with built-in HPE InfoSight, an AI-driven console that optimizes workloads and is built for the cloud

Tune workload performance

Accelerate and protect Oracle workloads with HPE software.

- **HPE Application Tuner Express** aligns data to the memory that is closest to the processor, delivering 30–59% performance gains in OLTP workloads
- **HPE Serviceguard for Linux (SGLX)** delivers robust high availability and disaster recovery without having to pay Oracle RAC:
 - Minimize unplanned downtime and eliminate planned downtime through application-aware advanced features
 - Combine SGLX with Oracle ASM Mirroring or with Oracle Data Guard to extend protection

Pay only for what you use

Gain the agility and economics of public cloud, while maintaining the security, performance, and control of on-premises IT. With **HPE GreenLake cloud services** you can:

- Scale infrastructure in minutes with an on-site capacity buffer
- Move from capex investments to a monthly-billed, OPEX-based financial model.
- Receive enterprise-quality support from HPE

ASSESS COSTS AND PERFORMANCE

Leverage the HPE Database Performance Profiler (DPP) tool to assess your Oracle workload and receive recommendations that can help you:

- Consolidate and/or reduce license costs
- Consolidate server and storage footprint
- Increase performance
- Assess potential ROI and TCO savings

The DPP requires no access to database user data tables and creates no measurable load on the database server. You can review all reports prior to sharing with HPE. Contact your local HPE representative to request a HPE DPP analysis and start saving on your Oracle environment.

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a00022619ENW, April 2021, Rev. 2