

# HPE solutions for Oracle

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

## Unique capabilities for a better Oracle solution

With HPE Solutions for Oracle, you benefit from:

- Unparalleled server, storage, and networking portfolio, engineered for high availability and reliability
- Deep **HPE Pointnext Services** expertise in Oracle
- Industry-leading hyperconverged, composable, and scale-up servers with powerful Intel® Xeon® compute and RAS features
- All-flash storage for high input/output operations per second (IOPS) and low-latencies
- Simplified, automated infrastructure management, including the ability to identify and repair issues automatically before they impact users
- **HPE Cloud Volumes**, an enterprise-grade multi-cloud storage service for Oracle and other enterprise applications
- **HPE Flexible Capacity** to meet budgetary requirements with optimum return on investment (ROI)



## Escalating Oracle Database challenges

If you use Oracle Database 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:

- Proliferating databases driving up license and support costs and increasing complexity
- Large and growing databases hitting performance bottlenecks
- Significant licensing costs to run scale-out x86 systems
- Pressure to maintain availability and to complete backups in a shorter timeframe

If these challenges sound familiar, perhaps the time is right to solve them with a trusted solution from HPE.

## Your Oracle, your way

Whether your organization is a midsize business or a large enterprise, HPE provides

a right-fit solution to match your company's unique requirements, including a choice of on-premises or hybrid cloud deployment.

Every HPE solution for Oracle is designed to:

- **Boost performance and availability** with the latest advancements in HPE compute, storage, and networking
- **Deliver savings** by consolidating Oracle workloads on scale-up servers and flash storage
- **Leverage HPE expertise** gained during more than 30 years of powering Oracle solutions and providing service to more than 140,000 enterprise customers

## Everything you need, all from HPE

Only HPE offers complete solutions spanning compute, storage, and networking for Oracle environments—from entry-level x86 to high-end, mission critical—backed by deep services expertise. Trust HPE solutions for:

### Performance

- Accelerate Oracle Database server deployment with HPE Image Streamer and HPE Synergy.

## Solution brief

50%

lower Oracle Database licensing costs.<sup>11</sup>

58%

greater database performance.<sup>12</sup>

50%

lower power, cooling, and footprint.<sup>13</sup>

<sup>1</sup> [HPE Nimble Storage InfoSight Predictive Analytics](#)

<sup>2</sup> [HPE 3PAR data protection](#)

<sup>3</sup> Based on HPE testing of backup performance comparison between HPE RMC and traditional backup environments

<sup>4</sup> IDC, ["HPE Superdome X: The Mission-Critical Scale-Up x86 Platform for SAP<sup>®</sup>, Oracle and SQL Server"](#), June 2016

<sup>5, 13</sup> HPE internal analysis, compared to EMC VNX, April 2016

<sup>6</sup> HPE internal analysis results using publicly available competitive data, May 2016

<sup>7, 11</sup> HPE internal lab testing. Data gathered on pre-release hardware and software; final results may differ, March 2017

<sup>8</sup> [HPE Nimble Storage All Flash Arrays](#)

<sup>9</sup> Based on HPE and Dell EMC Price List Comparison of StoreOnce VSA and Data Domain Virtual Edition for 4 TB usable capacity

<sup>10</sup> Based on external firm conducting cyber security penetration testing a range of server products and manufacturers, May 2017

<sup>12</sup> [HPE Server Performance Benchmarks Newsletter](#), February 2017



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- Leverage servers with 2 to 32 sockets, record-setting performance, and mission-critical reliability for OLTP, DSS, and mixed workloads.
- Capitalize on all-flash storage to deliver high real-world IOPS, boosting performance for single and multi-tenant OLTP and DSS environments.
- Resolve 86% of issues before they impact Oracle with Predictive Flash.<sup>1</sup>
- Accelerate backups by 23X<sup>2</sup> and restores by 15X.<sup>3</sup>

### Savings

- Consolidate servers to lower total cost of ownership (TCO) by up to 35% compared to scale-out servers.<sup>4</sup>
- Avoid the need for Oracle RAC with HPE scale-up servers.
- Reduce power, cooling, and footprint by up to 50%.<sup>5</sup>
- Lower TCO by 41% with HPE mission-critical x86 systems, compared to competitive UNIX<sup>®</sup> systems.<sup>6</sup>
- Reduce Oracle licensing costs by up to 50% and increase database throughput by up to 4X with HPE Persistent Memory.<sup>7</sup>
- Lower storage TCO by up to 66%.<sup>8</sup>
- Reduce backup storage costs by up to 75%.<sup>9</sup>
- Save on costly Oracle Advanced Compression fees.

### Expertise

- HPE has been powering Oracle solutions for more than 30 years.
- HPE serves more than 140,000 enterprise Oracle customers worldwide.
- 30–40% of Oracle Database and application deployments run on HPE platforms.
- Broad library of reference architectures further accelerate solution deployments.
- HPE collaborates with Oracle to resolve problems quickly.
- HPE has thousands of Oracle specialists, along with the HPE Partner community.

## Proven platforms for Oracle

Depending on your needs, you can optimize your Oracle environment with:

- **HPE ProLiant servers**—Adapt performance to applications with the world's most secure industry-standard servers<sup>10</sup> using HPE Scalable Persistent Memory and Intelligent System Tuning.
- **HPE Mission-Critical x86 servers**—Blending x86 efficiencies with proven HPE innovation to deliver extreme reliability, groundbreaking performance, and unparalleled scale-up capacity for growing workloads including Oracle Database In-Memory.
- **HPE Synergy**—The world's first platform architected for composable infrastructure, combining storage, compute, and networking in one chassis, with management software that automatically configures only the hardware resources required to run an application.
- **HPE 3PAR StoreServ storage**—Flash-optimized storage delivers high performance, high availability, and automated resource provisioning for mid-range and enterprise deployments.
- **HPE XP7 storage**—Provides extreme availability in traditional data center environments.
- **HPE Nimble Storage**—Predictive flash storage predicts and prevents bottlenecks before they impact Oracle performance.
- **HPE MSA Storage**—Entry-level fast hybrid flash storage with new fifth-generation controller architecture.
- **HPE StoreOnce System**—Comprehensive Oracle data protection provides the industry's fastest data protection and dramatically reduces backup storage costs.
- **HPE Hyper Converged systems**—Highly configurable, scalable, agile, and available integrated systems.

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