

# SIMPLIFY WITH PURE STORAGE TO OPTIMIZE ORACLE

**ADD PURE STORAGE SOLUTIONS TO YOUR ORACLE ENVIRONMENT TO SIMPLIFY WHILE IMPROVING THE VALUE OF YOUR ORACLE DATA.**



## **Performance, Density, and Consolidation Through NVMe**

Pure Storage® FlashArray//X is designed to be compatible with emerging technologies — including being 100% native NVMe Express® (NVMe™)-ready, anticipating the direction of the industry. Increased density, consolidation, and bandwidth are a package deal with NVMe. The benefits include:

- **FlashArray//X90** accelerates your performance 2x compared to previous all-flash arrays (AFAs)<sup>1</sup>
- **Latency** as low as 250 microseconds<sup>1</sup>
- **99.9999% availability** for Pure Storage FlashArray™ solutions, including maintenance, failures, and generational upgrades<sup>2</sup>
- **5:1 data-reduction rates** and integrated compression and deduplication that greatly reduces hardware and software costs<sup>3</sup>
- **Predictive support**

Installation and upgrades. Monitoring performance. Planning for the future. Keeping data secure. These challenges can have major impacts on your organizations as you work to implement, maintain, and improve Oracle® environments. Your storage — and its functionality — is a main contributor to the success of your systems' performance. By optimizing your Oracle environment with Pure Storage solutions, your experts can focus on being innovative and proactive while your data remains accessible and secure.

Whether your workload is transactional, data warehousing, or conducting analytics, Pure Storage solutions can simplify your Oracle tasks and improve your system performance. What does this mean for your organization? Pure Storage solutions for your Oracle environment deliver:

- Simplified deployment and management
- Reduced operational costs
- Increased levels of performance, including faster response times for applications and users

Pure Storage is an **Oracle Gold Partner**, collaborating directly with Oracle to align technology development and interoperability. As a Gold-level Oracle partner, Pure Storage qualifies and supports platforms for key Oracle technologies: Oracle Enterprise Linux®, Oracle Virtual Machine (VM), Oracle Solaris®, and Oracle Enterprise Manager (OEM).

## **EARLY ADOPTION AND CONTINUED SUCCESS**

Pure Storage was the first company to adopt **NVMe technology** across its product line, while competitors try to catch up by retrofitting solutions into arrays that were never meant to support NVMe.

How does Pure Storage FlashArray//X function in the field? The city of Garland, Texas, was facing storage demands that, according to Oracle, would require more than 100 server cores to meet needs. Pure Storage's data-reduction and compression rates accommodated the city's data, increased its input/output (I/O) performance, and reduced the number of required cores from 100 down to 16. Not only did the city's reporting and analytics speeds skyrocket, it saved \$4 million in Oracle licensing costs annually.<sup>4</sup>

## OPTIMIZE YOUR ORACLE DATA WAREHOUSE AND ANALYTICS

Compared to other industry solutions, the revolutionary Pure Storage FlashBlade™ product delivers:

- Better time-to-insight
- Extensive scalability
- Increased capacity
- Rapid analysis of unstructured, file, and object data, including non-Oracle data types (such as Apache® Hadoop®, Apache Spark™, and others)

Pure Storage also delivers a modernized data warehousing solution for Oracle. This brings the benefits of faster insights and data mining while reducing risk and enabling your tech experts to drive innovation instead of performing repetitive, outdated tasks. What benefits does Pure Storage FlashStack™ for **Scale-Out Architecture** offer for data warehouse customers?

### Increase extract, transform, and load (ETL) performance up to 2–3x:

FlashBlade is the industry's only **Scale-Out Storage** for modern files and objects, offering a single platform for all data-intensive applications. Powered by Purity software, FlashStack with FlashBlade allows enterprises to consolidate workloads and make use of Cisco UCS® and Cisco Nexus® technologies to build a high performing and efficient converged infrastructure for data warehousing and analytics.

### Lower total cost of ownership (TCO):

By removing the appliance and cloud approaches, **FlashStack** with FlashBlade gives customers the flexibility to architect the CPU cores based on their business needs, increase storage capacity by adding blades, and have a converged infrastructure that exceeds performance without the high costs.

### Continue to share data across applications:

FlashBlade offers a single platform for the data warehouse to share data across applications. Purity software is powered by a massively distributed transaction database, delivering a true **Scale-Out Architecture** that grows elastically, delivering any data to any client without bottlenecks or hotspots.

## PRESERVE BUSINESS CONTINUITY

Pure Storage helps keep your Oracle data safe with fast, reliable, all-flash backup, restore, and synchronous-replication solutions. Features and capabilities include:

- Compatibility with Oracle Recovery Manager (RMAN), enabling you to manage and monitor all backup operations on Pure Storage arrays from a single interface<sup>5</sup>
- Avoiding catastrophic downtime due to human or natural causes with Purity ActiveCluster
- Combining Oracle Real Application Clusters (RAC) and **Purity ActiveCluster** for comprehensive recovery, enabling consistent, efficient business continuity

## AUTOMATE YOUR ORACLE DATABASE

The **Pure Data-Centric Architecture** for Oracle Database delivers the levels of performance, availability, consolidation, and security required for your business to expand and grow. What does this mean for your data and, more importantly, your tech experts and organization as a whole?

**Faster copy/clone capabilities**, with clients experiencing up to a 90% reduction in the time required to copy/clone production databases

**Reduced time and cost of Oracle Database activities**, including copy, clone, and refresh activities, to allow your database administrators (DBAs) and analysts to focus on innovation and improvements<sup>6</sup>

**Support test, development, and quality-assurance (QA) activities faster**, maintaining your data integrity and allowing your organization to make the most of your data

The unique Pure Storage **Copy Automation Tool (CAT)** for Oracle is included at no additional charge in every Pure Storage FlashArray product, and it integrates into existing workflows with no impact on production databases. This provides up to 90% less time to copy and clone, freeing up your DBAs to perform more critical tasks.<sup>6</sup> The **Pure Storage CAT for Oracle** has negligible impact on server performance, keeping your data accessible and your performance accelerated.

Ready to simplify your database while you accelerate performance and lower costs? Visit [www.purestorage.com/oracle](http://www.purestorage.com/oracle) to get connected with a Pure Storage specialist.

<sup>1</sup> Pure Storage. FlashArray//X web page. [www.purestorage.com/products/flasharray-x.html](http://www.purestorage.com/products/flasharray-x.html).

<sup>2</sup> Pure Storage. Entry-Level Storage web page. [www.purestorage.com/products/entry-level-storage.html](http://www.purestorage.com/products/entry-level-storage.html).

<sup>3</sup> Pure Storage. "What Is Data Reduction?" [www.purestorage.com/resources/glossary/data-reduction.html](http://www.purestorage.com/resources/glossary/data-reduction.html).

<sup>4</sup> Pure Storage. "City of Garland Improves City Services." [www.purestorage.com/customers/cityofgarland.html](http://www.purestorage.com/customers/cityofgarland.html).

<sup>5</sup> Pure Storage. "Oracle RMAN on FlashBlade: A Framework for Accelerating Oracle® Backup & Recovery Using FlashBlade™." June 2017.

[www.purestorage.com/content/dam/purestorage/pdf/whitepapers/ps\\_ra\\_oracle-rman-backup-and-recovery-on-flashblade\\_Jul12017.pdf](http://www.purestorage.com/content/dam/purestorage/pdf/whitepapers/ps_ra_oracle-rman-backup-and-recovery-on-flashblade_Jul12017.pdf).

<sup>6</sup> Pure Storage. "Data-Driven Businesses Use Oracle and Pure." [www.purestorage.com/uk/solutions/applications/oracle-database.html](http://www.purestorage.com/uk/solutions/applications/oracle-database.html).



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