SOLUTION BRIEF

Uncomplicate Oracle Data Storage

Adding Pure solutions to your Oracle environment improves and simplifies how your data is stored, mobilized, and protected.

Business digitization, modern application development approaches, data protection and green data center goals are challenges that can significantly impact your organization as you work to optimize your Oracle workloads and deliver consistent top-tier performance. Data storage—and its functionality—is a primary contributor to the success of your Oracle projects. By simplifying your Oracle environment with Pure Storage® solutions, your experts can focus on being innovative and proactive while your data remains accessible and secure.

Modern Organizations Face Modern Challenges

Modern organizations and their leaders face many new challenges stemming from the massive shift to digital business with the adoption of digital transformation initiatives. This shift has been accompanied by an exponential increase in data being generated and managed. Modern application development approaches in these organizations have helped developers bring new features and updates to market more quickly. However, these applications are data-intensive, which in turn has increased demands on the underlying databases and data infrastructure to grow and scale seamlessly with user growth. Additionally, there is an expectation that the data infrastructure can provide uninterrupted high performance, bandwidth, and low latency.

Another important challenge is the looming threat of ransomware attacks. When a cyberattack strikes, organizations need to restore their data quickly. Conventional data-protection measures, used in Oracle environments, often fall short of protecting backups, as well as being notoriously slow and not designed for recovery.

Lastly, environmental, sustainability, and governance (ESG) has emerged as a priority issue for most organizations. The environmental impact of data infrastructure is growing with the exponential increase of Oracle data.

App Acceleration
Run your business-critical Oracle workloads faster than ever.

Top-tier Performance without Complexity
Consolidate massive Oracle databases on fewer arrays without compromising performance.

Forward-thinking Data Security
Protect Oracle data from disasters, maximize business continuity, and speed recovery

Infinite Scale-Out
Benefit from effortless scale, simple on-demand provisioning, and self-management of the cloud.

Uncomplicate Your Data Storage with Pure

While your own organization implements, maintains, and improves your Oracle landscape, the data storage infrastructure you choose can be a primary contributor to the project's success. Difficulty getting the right data infrastructure in place can impact any organization's ability to roll out and sustain new capabilities. Often, the current data infrastructure is complex, rigid, and cannot innovatively support advanced data activities required by the business.

Pure improves and simplifies how Oracle data is stored, mobilized, and protected. Data services can be easily expanded, integrated, upgraded, and managed, using a fully supported, software-centric approach to meet changing data needs at speed and scale. Pure Storage collaborates with Oracle to align technology development and interoperability to support platforms for key Oracle technologies like Oracle Enterprise Linux, Oracle Virtual Machines (VM), Oracle Solaris, and Oracle Enterprise Manager (OEM).

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

Uncomplicated storage: Pure solutions enable you to leverage simplified deployment, management, and easy integration of every aspect via APIs with 3rd party solutions that simplify how your Oracle data is stored, managed, and used. Your mission-critical Oracle applications will gain accelerated performance thanks to the all-NVME architecture of FlashArray™ that provides latency as low as 150µs and up to 36GB/s throughput. Cloning and refreshing Oracle databases with FlashArray snapshots also allow your Oracle database administrators and analysts to focus on innovation; support faster testing, development, and quality-assurance activities; maintain data integrity; and allow your organization to make the most of your data. Pure's snapshot scheduling and retention policies are fully customizable and easy to deploy.

Integrating Oracle data fabric with space-efficient, portable FlashArray snapshots enables you to reduce data sprawl, protect data from ransomware attacks, and reduce time to market by empowering dev/test teams. By consolidating massive Oracle databases, you can leverage all the benefits of reduced TCO, simple management, increased security, higher availability, and better performance. FlashArray//XL features top-tier performance, capacity, and resiliency, and can easily scale more users and Oracle databases on fewer arrays.

Preparedness for the unexpected: Leverage data protection against ransomware attacks by securing critical Oracle data from being altered or destroyed, allowing you to recover quickly from an attack. You can achieve consistent, efficient business continuity with fast, reliable, all-flash backup, restore, and synchronous-replication solutions from Pure. Pure SafeMode™ (available with both FlashBlade® and FlashArray) protects backup Oracle data and metadata by creating a secure copy. Ransomware can't eradicate, modify, or encrypt SafeMode snapshots, even with admin credentials. Pure's compatibility with Oracle Recovery Manager (RMAN) enables you to manage and monitor all backup operations on Pure arrays from a single interface. RMAN backup targets include FlashBlade and FlashArray//C. Catastrophic downtime due to human or natural causes can be avoided with Purity ActiveCluster™ and combining it with Oracle Real Application Clusters (RAC) delivers comprehensive recovery.

Scalability: With Evergreen™ you can experience proactive and non-disruptive solution upgrades with a cloud-like storage-as-a-service consumption model that allows solutions to be easily upgraded and changed. And with the hybrid-cloud infrastructure of FlashStack®, you can experience a modern infrastructure fit for today's economics with integrated compute,

network, and storage. With it, it's simpler than ever to scale on-premises to a hybrid cloud with unified management and flexible consumption for Oracle workloads. If your Oracle databases are on Kubernetes, leverage Portworx® by Pure Storage for multi-cloud data mobility and the most complete data-service platform for Oracle databases on Kubernetes.

Sustainability: Make you data center footprint go green to meet your organization's environmental, sustainability, and governance (ESG) goals. FlashArray offers lower power consumption, higher density, and more effective storage capacity with industry-leading data reduction.

A Smooth Path to Widespread Gains

Our customers rely on Pure to meet their goals. To meet an urgent need for COVID-19 testing, Nashville-based toxicology lab Aegis Sciences scaled its infrastructure with Pure Storage to process more tests, more quickly. Moving their Oracle environment to Pure allowed them to make changes to their licensing model, allowing all parts of the business to access and share storage from a single pool perspective, making it more cost-effective and efficient to manage.

Davenport University seamlessly upgraded their data storage infrastructure in just two hours as they prepared for the start of the academic year. Oracle read times decreased by 85-90%, improving the user experience. And consolidating from 48 to 5 rack units reduced data center space, power, and cooling costs.

Finally, 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 to 16. Not only did the city's reporting and analytics speeds skyrocket, but it also saved $4 million in Oracle licensing costs annually.

Additional Resources

- Read more about Pure's solutions for Oracle.

- Find out more about the capabilities of FlashArray//XL.

- Read this technical whitepaper on FlashArray snapshots for databases.

- Learn more about Pure Professional Services.

- Read about Pure's Environmental, Social, and Governance (ESG) Mission.