Why Violin Is the Best Storage Choice for Oracle Databases

10 Reasons

To Run Your Oracle Databases on Violin All Flash Arrays

Oracle databases are deployed by many enterprises today. However, unprecedented growth in enterprise data makes managing, scaling, and ensuring database and related application availability difficult, if not cost prohibitive.

Maximizing the business value of Oracle databases and related applications requires consistent high performance storage with predictable low latency that is capable of delivering real-time actionable information and non-disruptively scaling with your business.

With Violin's industry leading Flash Storage Platform (FSP), Oracle databases and related applications finally have storage that can meet the performance needs for a mix of workloads including OLTP, CRM, ERP, data warehouse, business intelligence, and real-time analytics. This means your Oracle database initiatives can now scale to achieve their full potential while more efficiently using existing server investments to maximize your ROI.

Violin simplifies the configuration, usage, and management of Oracle-based solutions while delivering consistent and predictable performance for any data, anywhere, at any scale.

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MEMORY

1 Optimize Oracle Performance by Eliminating I/O Bottlenecks

Violin arrays deliver sustained performance for short block random read/write workloads as well as sequential read/write workloads. With up to 1.1 million IOPS and 140TB of raw capacity in a 3U form factor, the Flash Storage Platform (FSP) delivers consistent high performance with operational simplicity. Ongoing performance mapping and tuning, disk groupings, etc., related to your storage are things of the past. With consistent sub-millisecond latency, the storage of choice for TPC-C benchmarks provides industry-leading, scalable performance.

2 Improve ROI by Scaling Oracle Higher than Before

You get ultra-fast read and write commits that can increase application performance by up to 10x while reducing storage latency up to 50%. Violin's patented Flash Fabric Architecture™ supports higher concurrency. This means all storage is equally accessible at the same speed at all times, so any number of users can access data and the array response time will not degrade. With the Flash Storage Platform, you maintain consistent Oracle database performance while adding users, threads, tables, LUNs, etc. or additional concurrent reports or other tasks.

3 Stay Online All the Time

Violin's patented Flash Fabric Architecture and vRAID technology coupled with Tier-1 high availability ensure the integrity of data on the Flash Storage Platform. Our FSP solutions feature advanced business continuity solutions including stretch clusters, synchronous mirroring and asynchronous replication to help you achieve 24x7 operational requirements.

4 Reduce Licensing Expense while Increasing Performance

Our microsecond response times translate into reduced memory and CPU requirements allowing you to reduce core-based licensing expense. Since our arrays don't use SSDs and our optimized architecture avoids latency spikes to support mixed and multiple workloads, you can eliminate data marts by consolidating databases while increasing performance.

5 Improve your Oracle Operations with Enterprise Data Services

Violin arrays reduce costs through thin provisioning, deduplication, data compression, snapshots and clones. Available data protection options include synchronous mirroring and asynchronous replication, and scale up capacity for up to 1.4 PB of raw capacity or over 2PB effective capacity after data reduction, all in a single namespace.

6 Reduce OPEX

With Violin arrays, you can reduce electrical costs by at least 40% compared with SSD arrays (even more against hybrid/HDD solutions), decrease rack space by 80%, or more and trim cooling expense by at least 40%.

7 Virtualize Business Critical Applications with Confidence

With our extremely low, sub-millisecond latency, you can consolidate more business critical applications and databases per server CPU core without compromising service levels. With 20x lower transactional latency compared with legacy storage systems, Violin all-flash solutions accelerate business critical workloads while delivering transformative data center economics.

8 Faster Reporting for Competitive Advantage

With Violin All Flash Arrays, you can generate reports faster, and perform real-time processing on larger databases to accelerate applications by up to 20x. You can run complex queries and reports during business hours with smooth storage performance for real-time business insights that can give you a competitive advantage.

9 Seamless Integration

The Violin Flash Storage Platform delivers high-performance storage that seamlessly integrates into your existing SAN infrastructure.

10 Pay-As-You-Grow Pricing

Violin All Flash Arrays offer pay-as-you-grow pricing, a unique software license-based capacity expansion, so you can scale capacity without having to order and install it in advance. This enables you to more closely align CAPEX with the benefit received; you can non-disruptively scale in 8.8 TB increments, starting from as little as 8 TB of raw capacity and, depending on the model, scale up to as much as 140 TB.