

## SOLUTION BRIEF

# Uncomplicate Data Storage for MySQL and MariaDB

Achieve business breakthroughs and accelerate applications with optimized MySQL and MariaDB operations.

Customers expect businesses to deliver products and services quickly with a seamless user experience. To match these high expectations, companies are digitizing their business processes. This digital transformation is accompanied with unprecedented data growth.

Central to this transformation, MySQL and MariaDB are among the [most popular open-source databases](#) powering transformative applications today. MySQL and MariaDB administrators want to improve database operations and scale applications such as web apps while reducing replica seeding time and management overhead. They also need data mobility between on-premises and cloud environments. Meeting backup and recovery service-level agreements while their traditional systems struggle to recover at scale is a common challenge.

## Uncomplicated Storage for MySQL and MariaDB

Pure Storage® provides uncomplicated solutions to common MySQL and MariaDB challenges. With Pure FlashArray™ volume snapshots, administrators can eliminate replication time-to-availability for MySQL and MariaDB. Intel Optane-based DirectMemory™ cache from Pure can accelerate the responsiveness of MySQL and MariaDB read operations of web applications, providing a more intuitive user experience. By consolidating more MySQL and MariaDB replicas into a single FlashArray, performance is maintained while saving space and consuming less power.

Additionally, you can gain infrastructure efficiency with Pure's rich data services such as space-efficient snapshots and industry-leading data compression, thin provisioning, and deduplication. Avoid disruptions and minimize capacity needs with Pure's always-modern Evergreen Storage™ and always-on QoS. For MySQL and MariaDB deployed in AWS Outposts environments, Pure offers higher performance and availability than EBS volumes. And for hybrid and multicloud environments, Pure Cloud Block Store™ delivers seamless data mobility, data protection, and a consistent experience in AWS and Microsoft Azure. Portworx® by Pure Storage provides a container ready solution with



### Speedy, Scalable, and Simple

- Superior performance, low latency, and high throughput from all-flash NVMe
- Improved scalability and management overhead
- Four times as fast as EBS in AWS Outposts\*



### Powered by Intel Optane

- Greater than 17% performance improvement in database read operations with DirectMemory Cache\*
- Increased consolidation of workloads on a single FlashArray



### Fast Backup and Restore

- Backup speed greater than 33TB/hour\*
- Restore speed greater than 23TB/hour\*

modern app development in mind, enabling you to run any cloud-native data service, in any cloud, using any Kubernetes platform, with built-in high availability, data protection and data security.

## Uncomplicate Data Storage for MySQL and MariaDB

Explosive data growth has driven a need for comprehensive data-protection plans and mitigation strategies to protect against security threats like ransomware. Yet as data volumes increase, MySQL and MariaDB database teams are quickly discovering that traditional backup solutions are slow to rehydrate and recover data. In fact, as the amount of protected data increases, the more slowly these traditional architectures recover.

Pure Storage FlashBlade®, the leading Unified Fast File and Object storage platform, provides native file and object protocol support without compromising performance or scalability. This enables file and object workload consolidation across a wide range of use cases. FlashBlade's SMB support helps reduce the time for both MySQL backup and restore operations, creating an ideal platform for backup operations and data consolidation. SafeMode snapshots, a built-in FlashBlade feature, enable you to create read-only snapshots of MySQL and MariaDB backup data and recover data directly from these snapshots.

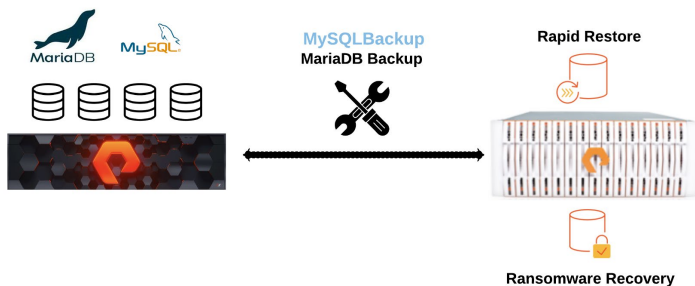


Figure 1. MySQL and MariaDB backup and recovery with Pure

## Convert Data into Powerful Outcomes

Pure's solutions help you easily store, safeguard, manage, access, and scale your MySQL and MariaDB data. With multi-cloud mobility, container orchestration, and as-a-service flexibility from Pure, you can convert your data into powerful outcomes. Whether your workload focuses on transactions, data warehousing, or conducting analytics, you can leverage Pure to optimize your MySQL and MariaDB deployments, improve application performance for an amazing user experience, avoid disruptions, eliminate hidden costs, and minimize capacity needs. Pure uncomplacates your data storage by delivering increased levels of performance, enhanced speed, resiliency, and rapid technology adoption with Pure's ground-breaking DirectFlash™ and DirectMemory. You'll be able to leverage simplified deployment and management, all while reducing operational costs.

## Additional Resources

- Find out more about using [Pure alongside MySQL and MariaDB](#).
- Check out Pure's [blog posts on MySQL and MariaDB](#).

\* Based on internal Pure Storage testing and analysis. Your results may vary as differences in system configuration might affect actual performance.

[purestorage.com](https://purestorage.com)

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Uncomplicate Data Storage, Forever