

## SOLUTION BRIEF

# Microsoft SQL Server and Pure Storage

Eliminate legacy maintenance tasks and focus on innovation.

Pure Storage® engineers solutions to simplify performance management and tuning for database and storage administrators. Pure Innovation reduces much of the time you spend on mundane performance and I/O subsystem tuning tasks. Our FlashArray™ and Purity Operating Environment include artificial intelligence (AI)-driven storage software that constantly optimizes I/O performance, enabling you to focus on applications instead of making storage perform optimally. By eliminating legacy maintenance tasks, Pure frees you to focus on projects that deliver more value and innovation to your business.

## Cloud Connected

The ability to seamlessly move workloads to and from the cloud provides storage efficiencies as well as enterprise grade resiliency and redundancy. Pure's connected cloud gives you the ability to develop, migrate and run applications across your hybrid cloud. Leverage the cloud for disaster recovery and get a premium level of high availability for mission-critical apps running in the cloud with Pure Cloud Block Store™.

Pure Cloud Block Store delivers a seamless experience based on deep integrations with VMware automation and container-orchestration tools. We architected this solution with a focus on performance and reliability. Pure's always-on thin provisioning, deduplication, and compression deliver high data reduction rates and ensure fast and economical capacity delivery.

## Management Studio Extension

For meeting challenges such as scaling out to test and development environments or refreshing databases, Pure's SQL Server Management Studio (SSMS) extension will provide a welcome addition to your toolset.

The SSMS extension makes creating application-consistent snapshots fast and simple using the Pure Storage Volume Shadow Copy Service (VSS).



### Cloud Block Store

Seamlessly move workloads to and from clouds to support changing business needs.



### SSMS Integration

Manage backup and restore operations on local and remote databases.



### Flash for Data

Achieve high-bandwidth performance and simplify management.

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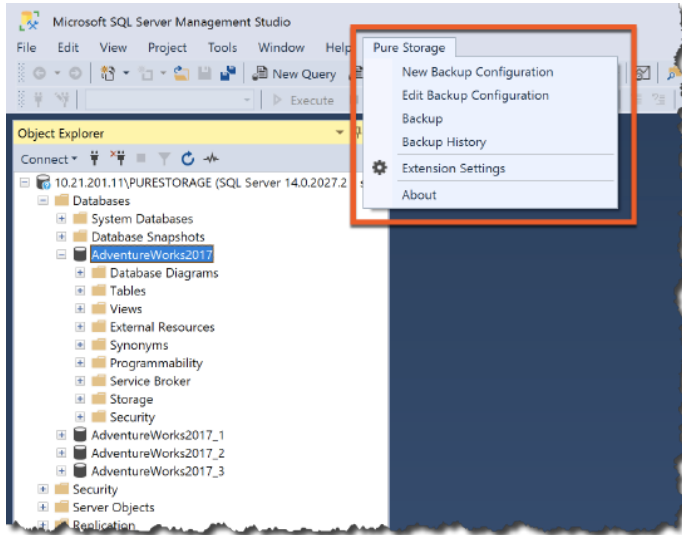


Figure 1. Create snapshots faster with the Pure SSMS Extension.

## Engineered for Data

Data workloads thrive on Pure. Our AI-driven solutions use a unique combination of busy block-detection and encryption algorithms to randomize write locations and improve performance.

**Innovative Performance:** Pure delivers storage with fast response times, high availability, and agility—all factors that help control costs. Pure Storage all-flash array storage solutions integrate seamlessly with SQL Server to meet these needs:

- Uniquely performant with iSCSI bus
- Persistent memory with NVRAM
- > 99.9999 proven availability

Pure's all-NVMe software-defined flash increases speed up to 30% vs. traditional bus architectures. The NVMe enhanced speed comes from lower latency and more concurrency in the storage connections. Persistent Memory using NVRAM modules reduces the latency by utilizing phased write IOs, reducing costs and allowing sophisticated deduplication before writing to flash storage. This capability speeds the hardening of data without negative performance impacts. Pure Storage FlashArray delivers six nines of availability, meaning no unplanned downtime. Deploy once and upgrade software, hardware, or both in-place, with zero impact on performance.

## Additional Resources

- Read the [FlashArray Data Sheet](#).
- Learn more about [Microsoft and Pure Solutions](#).

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