

## Using Open Channel SSDs to Improve QoS for Datacenter Applications

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# HyperScale Datacenter Powered by NAND Flash - Higher Qos - Lower TCO









The Matrix, 1999















### **Partnership on OCS** conforming to the Alibaba Open Channel SSD Spec



Shannon Systems

### In production today















# OCS Atomic Writes – MariaDB® Support



https://mariadb.com/kb/en/library/changes-improvements-in-mariadb-102/











## Key Takeaways

#### **OCS have arrived**

OCS enable applications to directly manage flash, bypassing agents and OCS become part of applications

- OCS offer significant opportunity for QoS improvement for datacenter applications:
  - Cloud and virtualization
  - Databases
  - Key value store



