## **Lustre User Group**

LUG22 Sponsor Presentation May 2022

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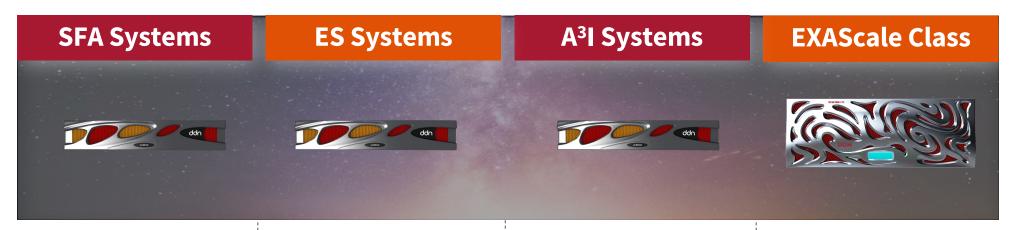








## **DDN All NVME/Hybrid Platforms for Lustre File Systems**



## SFA400NVX2E

**Community Lustre** 

90GB/s 3M IOP/s

24 NVME Slots Up to 360 SAS Slots

HDR/HDR100 IB (8) Or 100/200GbE (8)

#### **ES400NVX2**

**EXAScaler Pre-Install** 

90GB/s 3M IOP/s

24 NVME Slots Up to 360 SAS Slots

HDR/HDR100 IB (8) Or 100/200GbE (8)

#### AI400NVX2

**EXAScaler Pre-Install** 

90GB/s 3M IOP/s

24 NVME Slots Up to 360 SAS Slots

HDR/HDR100 IB (8) Or 100/200GbE (8)

#### ES18KX

**EXAScaler Block Storage** 

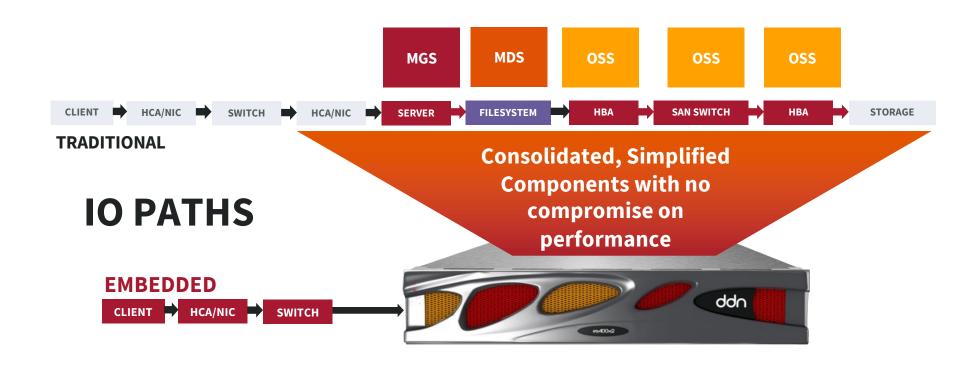
76GB/s 3M IOP/s

48 NVMe Slots Up to 1872 SAS Slots

EDR/HDR100 IB (16) Or 40/100GbE (16)

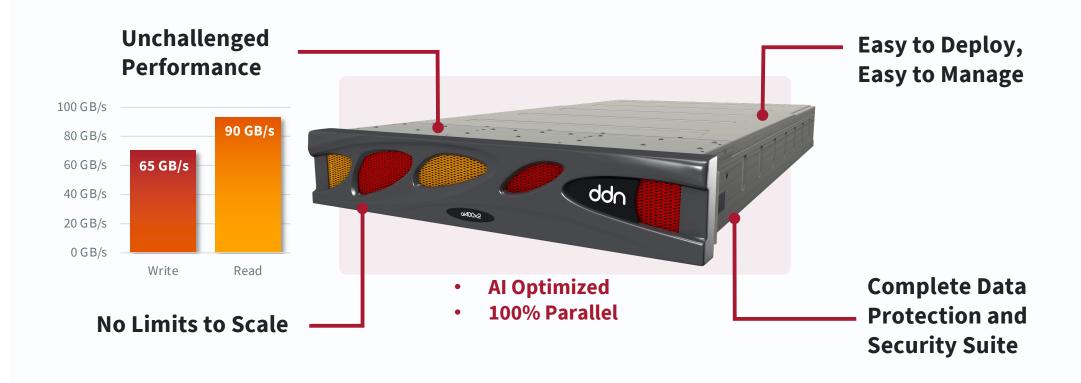


## **Focus on End-To-End System Performance**





#### A NEW CLASS OF TIER 1 STORAGE FOR AI PERFORMANCE

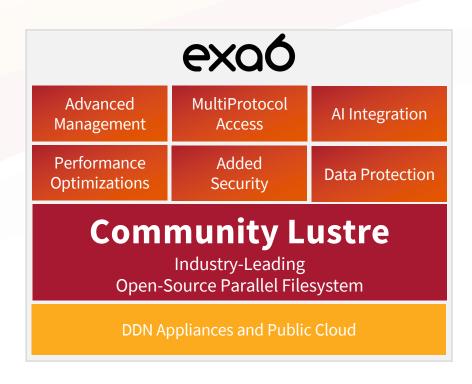




## **EXAScaler 6 Builds on Community Lustre**

### **EXAScaler Highlights:**

- Management Simplify orchestration & usability
- Cloud Expertise for AWS, Google Cloud, Azure
- DDN Insight Dashboards to analyze workloads
- Hot Pools Automatic Tiering Between SSD & HDD





## **EXAScaler 6**

Scalable, High Performance for AI, Analytics and HPC

- Performance The Throughput and IOPs Leader
- Ease of Use streamlined and automated management, online upgrades and expansion, richer CLI and GUI experiences for users and admins with enterprise-class management tools
- Data Management Move, Stripe, Auto-Tier, Optimize
- Security Client-side encryption and multi-tenancy
- Rich Analytics Realtime Monitoring and Call Home





## **DDN EXA6 – EXAScaler Management Framework**

Up to 10X Faster and More Repeatable Deployments, Upgrades and Expansions

#### **Orchestration Manager**

- Monitor cluster "state"
- run/track distributed command plans

#### **User Interfaces**

- API (GraphQL) as entry point
- Enhanced CLI and GUI for new functionality



#### **Service Mesh**

- Secure comms across infrastructure
- Servers, clients and utility nodes

#### **Enhanced Security infrastructure**

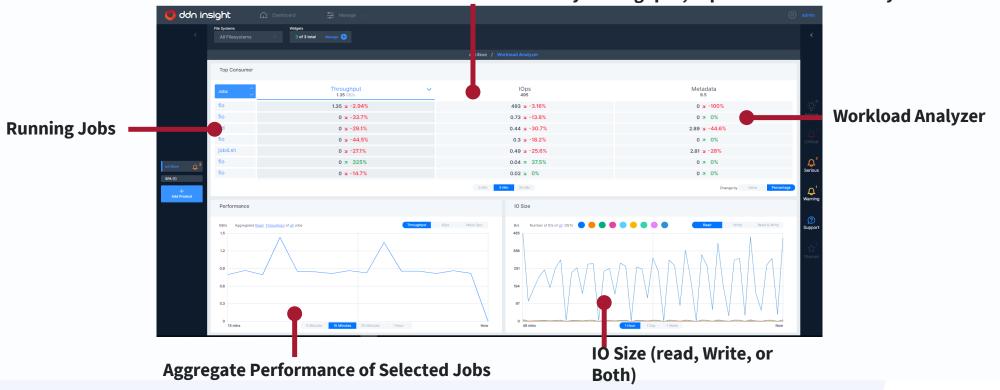
- Role Based Access Control
- Audit logging

**DDN EXA6 Framework Installs in Less Than 15 Minutes** 



## **DDN Insight A Complete Dashboard to Analyze Workloads**

User can re-order by Throughput, IOps or Metadata activity





## **DDN EXA6 Hot Pools: Fully Automated Data Management**

Performance and Cost Optimized With All the Benefits of HSM and None of the Issues

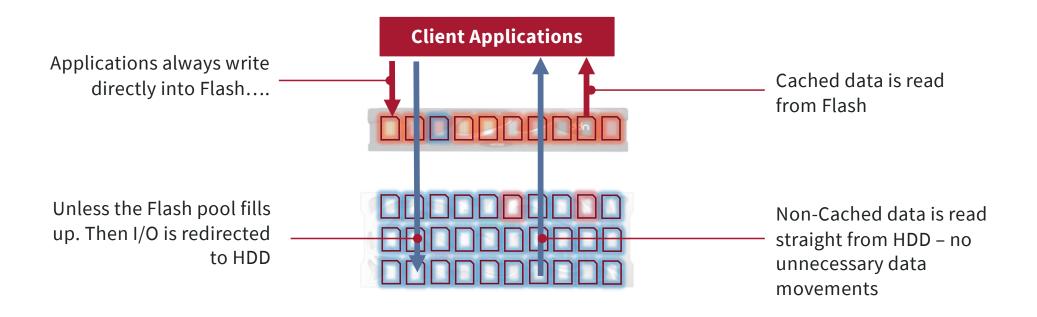
- **EXAScaler Hot Pools** optimizes for performance and keeps capacity costs low, by storing new/hot data in flash, and automatically migrating cold data to disk
- **No added complexity** for users with One Single Namespace and no penalty for hot pool cache miss
- **Automated Data Management** implemented by userspace utilities which call Lustre system commands





## **Data Placement Optimization without Compromise**

Data in cache is accessed Very Fast, data out of cache is accessed Fast





# **DDN Experts Delivers Solutions Not Just Storage**

Add in the world's most expert team in delivering whole Storage and Data Management solutions



