



Architecture Matters

PowerProtect – Economically efficient cyber resilience

Dell PowerProtect Data Domain: Purpose-Built Architecture for Maximum Storage Efficiency



CPU-Optimized Deduplication Engine

Up to 75:1 data reduction.
Enabled by purpose-built, inline deduplication that minimizes memory overhead and scales efficiently.



Memory Efficient Architecture

DRAM and flash are optimized for efficiency and performance, not as the primary means to scale capacity.



Source-Side Deduplication

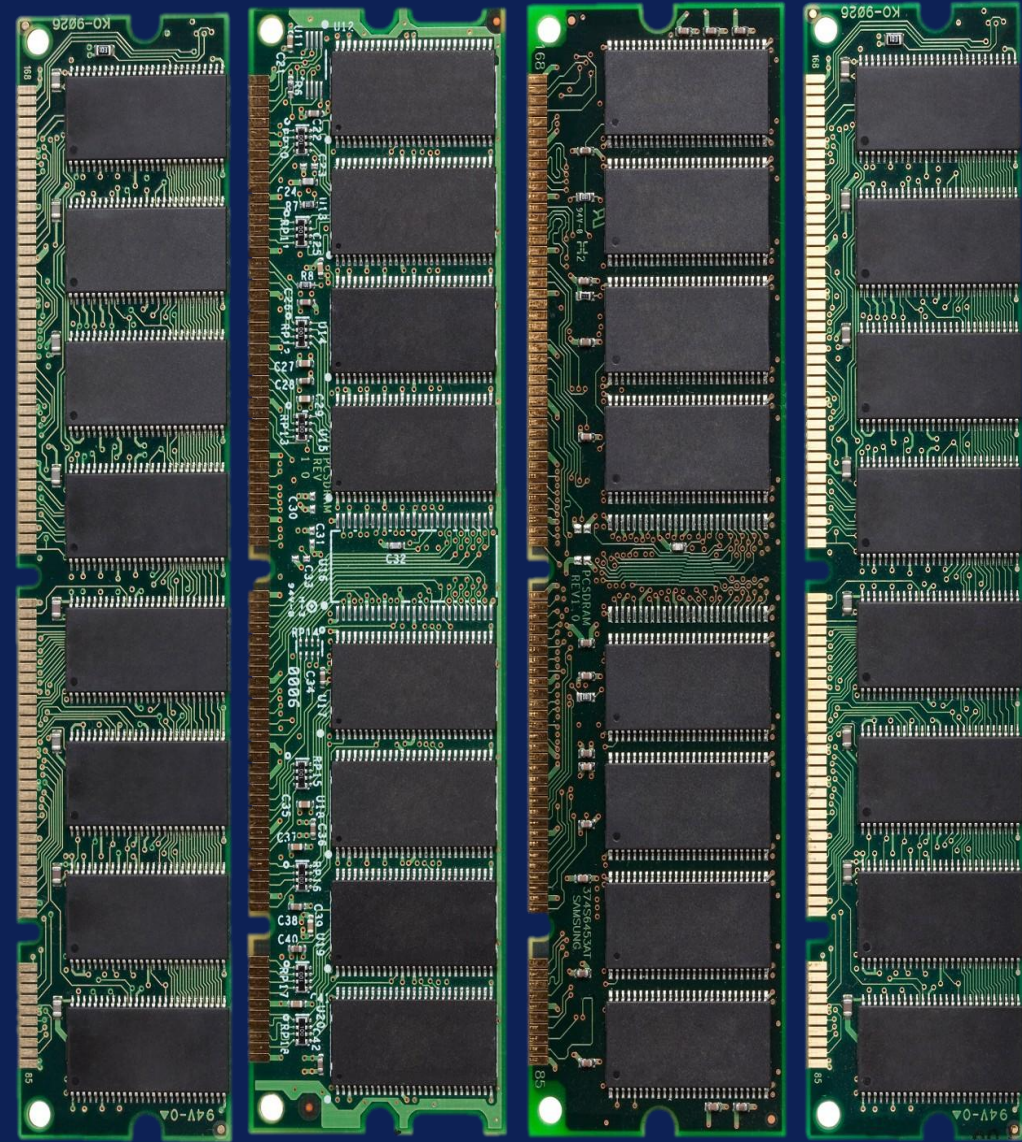
By processing data at the source before network transfer, Data Domain reduces bandwidth and memory resource consumption.

Why Architecture Matters

AI is reshaping storage economics

- AI demand is redirecting global memory and flash supply
- SSD-heavy architectures face sustained cost and supply pressure
- These constraints are expected to persist through 2027*

***Why It Matters:** IDC expects supply growth to be only 16% and 17% year-on-year respectively, far below demand – meaning high prices aren't going away.



2.1 PB Usable — Architectural Differences

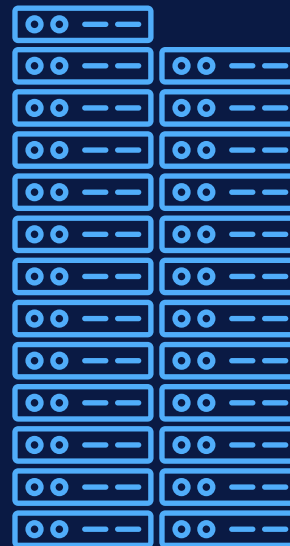
	Dell PowerProtect DD9910	Cohesity C6055	Rubrik R7424
Servers	1	23	64
SSD Dependency	14 SSDs	92 SSDs	128 SSDs
DRAM	2048 GB	1536 GB	6528 GB
Power & Cooling	~5.57 kW	~15 kW	~27 kW
Network Ports	4 Uplinks	92 Uplinks	256 Uplinks

64x fewer servers

64 servers



23 servers

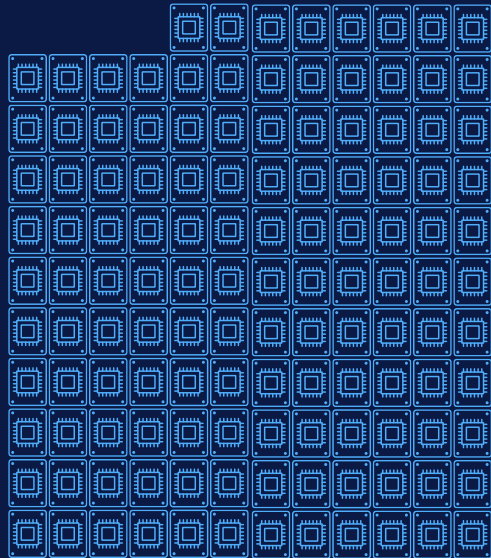


1 server

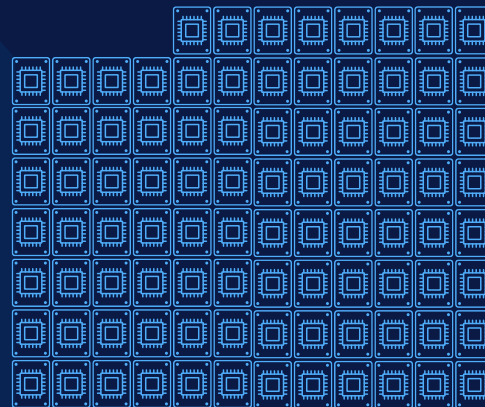


84% fewer SSDs

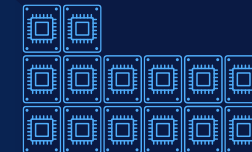
128 SSDs



92 SSDs



14 SSDs



80% less energy use

Power Consumption

27 kW



 rubrik

15 kW



COHESITY

5.7 kW



DELL Technologies

64x fewer ports

256 Uplinks



92 Uplinks



COHESITY

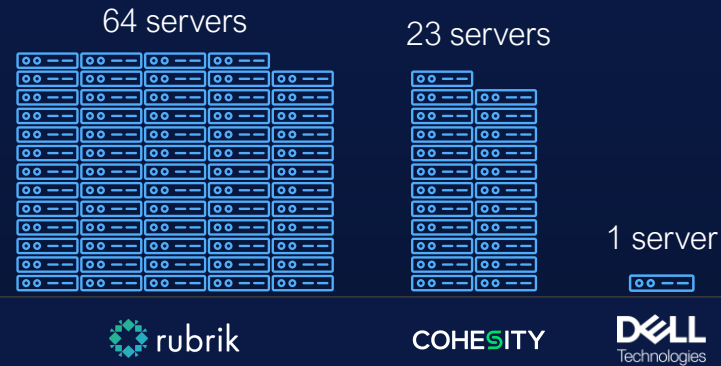
4 Uplinks



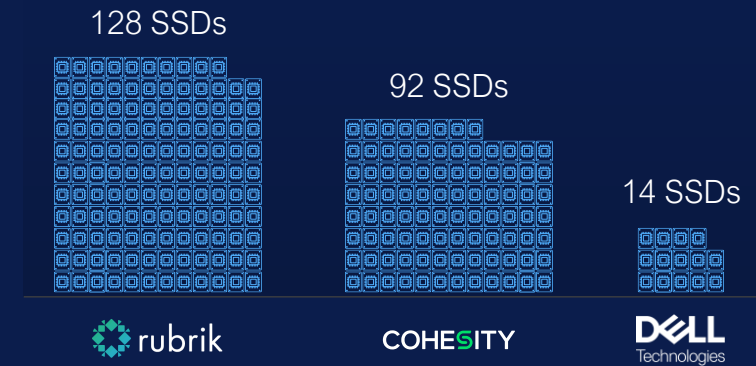
DELL Technologies

PowerProtect offers **superior efficiency** compared to Rubrik and Cohesity

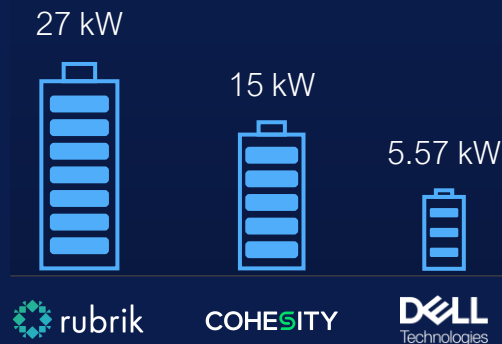
64x fewer servers



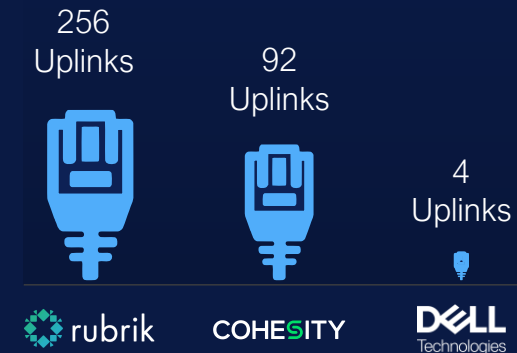
84% fewer SSDs



80% less energy use



64x fewer ports



Architecture determines cost, risk, scale

Platform design is the driver of enhanced efficiencies

The Stakes are Higher than Ever



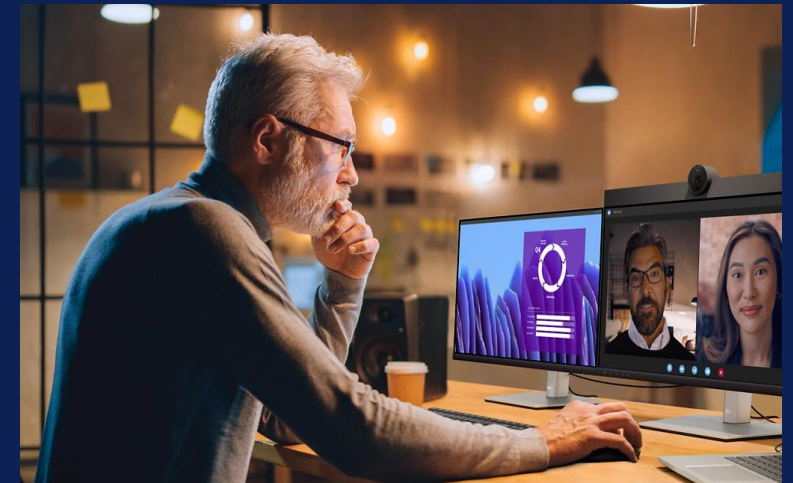
AI is driving SSD supply & pricing pressure
Scale-out magnifies infrastructure costs

The Real Cost of Scale-Out



Cohesity and Rubrik consume
more SSDs, ports and power

PowerProtect:
Scale Capacity Not Compute



PowerProtect delivers unmatched
efficiency and simpler operations



Thank You

PowerProtect – Economically efficient cyber resilience

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