Isilon/ECS – aspekty techniczne

Warszawa, 17.10.2017



Isilon Business Momentum

Exabytes Shipped >3.2 Exabytes on page 5 Calendar 2016

> In Scale-Out NAS Now in All-Flash



Customers

>17%

YoY Customer Growth

Gartner

Recognized Leader **IDC**



Isilon - The Recognized Leader



Gartner



Unstructured Data: Industry Challenges









EDA
Storage Doubling
Every 2 Years

Life Sciences 2X Capacity Growth Every 12 Months

M+E
Ever Increasing
Resolutions

Enterprise
Faster Outcomes
Lower Costs

Isilon and OneFS

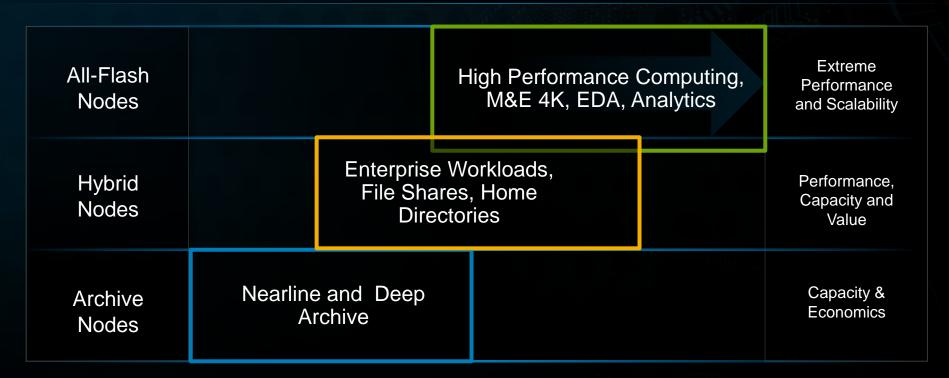


Isilon Workload Consolidation





Isilon Scale-Out NAS Family

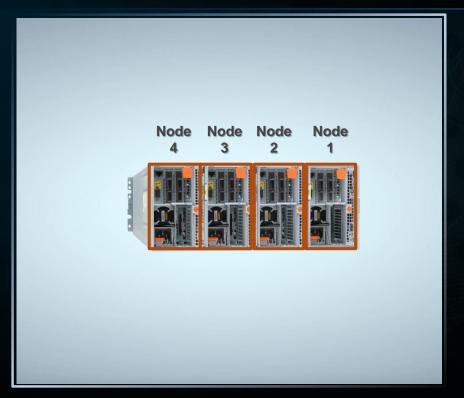


Isilon Scale-Out NAS Family





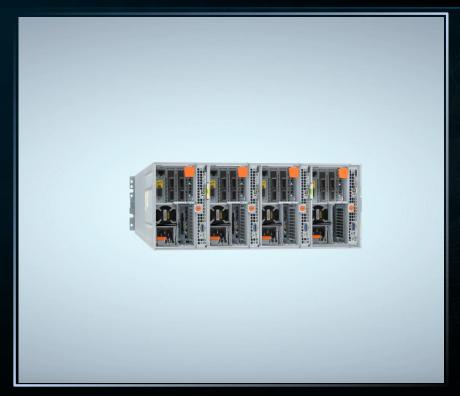
Isilon Next Gen Platform: Compute



Features

- 4 Nodes in 4U Chassis
- Intel Broadwell CPU: Optimized Compute to Drive Ratios
- Up to 6 TB Cache per Node
- No Single Points of Failure
- Networking Flexibility: Infiniband, 10GbE/40GbE

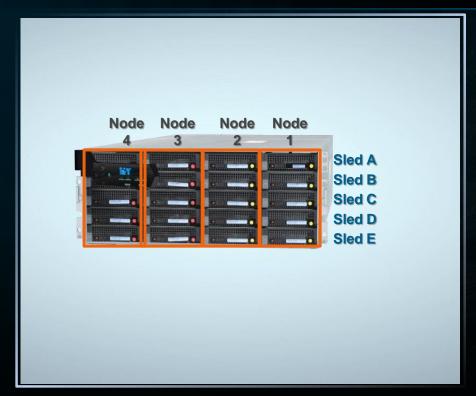
Isilon Next Gen Platform: Compute



Benefits

- 4:1 Reduction in RU
- Optimized IOPS and Throughput
- Future-Proof, Enduring Design: Snap-In Next Gen Compute, Networks
- New Levels of Modular, Hot-Swappable Serviceability

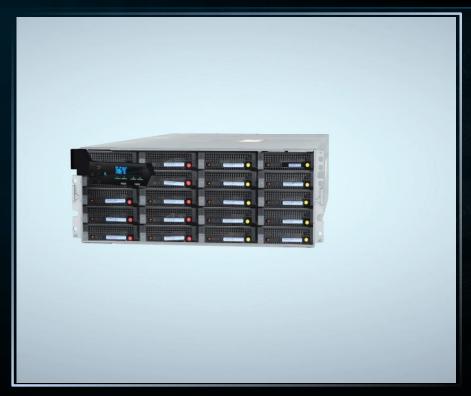
Isilon Next Gen Platform: Storage



Features

- From 72TBs to 924TBs in 4U
- 5 Drive Sleds per Node. 3 to 6 Drives per Sled
- Front Aisle, Hot Swap Sleds and Drives
- Media Flexibility: Flash, SAS and SATA

Isilon Next Gen Platform: Storage



Benefits

- Start Small and Scale
- Breakthrough Density
- Simplified Serviceability and Upgrades
- Future-Proof Storage

Unconstrained Scale

Push-Button Linear Scaling Under 60 Seconds

Transparent to Users and Applications





TCO Optimization: Simplicity and Ease of Use



Single File System Spans All Nodes

Automation:

NO manual intervention

NO reconfiguration

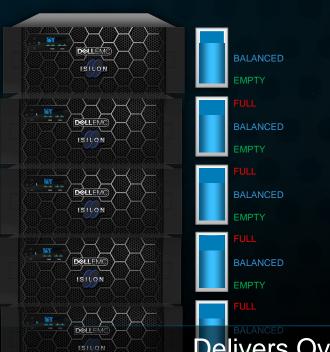
NO server or client mount point or application changes

NO data migrations

NO RAID

Directories and Files Striped Across Cluster

TCO Optimization: AutoBalance Capacity and Performance



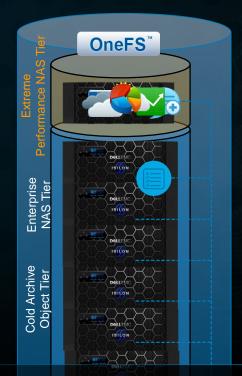
AutoBalance Across Nodes

Automation Balances Data
Reduces Costs, Complexity, Risk
Eliminates Hot Spots
NO data migrations
NO RAID

Delivers Over 80% Storage Utilization

TCO Optimization: Policy-Based Automated Tiering





HIGHEST PERFORMANCE

LOWEST TCO

- Tier Between Performance, Enterprise and Archive Nodes
- Transparent to Users and Applications

Just Enough Flash

Enterprise Grade Features

Data Protection & Efficiency

SnapshotIQ

Fast, Efficient Data Backup And Recovery

SyncIQ

Fast And Flexible Asynchronous Replication For DR

SmartConnect

Policy-based Client Failover With Load Balancing

SmartLock

Policy-based Compliance and WORM Data Protection

SmartDedupe

Data Deduplication to reduce storage costs

Data Management

Search

Fast, Heuristic Queries on Files and Metadata

SmartPools

Policy-Based Automated Tiering

SmartQuotas

Quota Management And Thin Provisioning

InsightIQ

Performance Monitoring And Reporting

CloudPools

Cloud-scale Capacity



Enterprise Grade Features: In-Place Analytics



Native HDFS

Speeds Time to Insight Enterprise Data Protection for Hadoop Lower costs

- Eliminates dedicated Hadoop infrastructure Increase flexibility
- Simultaneous support for any Apachecompliant Hadoop distribution



cloudera Hortonworks Pivotal splunk>



ISILON



Edge – Core - Cloud Flexibility







CloudPools: Extending Isilon OneFS to the Cloud



Private Cloud. Dedicated Cloud. Public Cloud.

Prolicies Control When, Where, thow thou Move ton Catand



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