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REASONS TO REPLACE YOUR LEGACY NAS STORAGE

MOVE TO MODERN
SCALE-OUT STORAGE

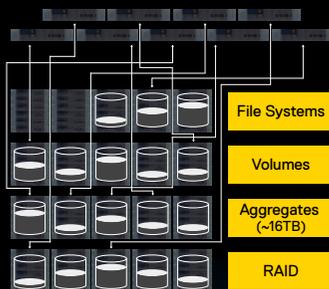
SIMPLICITY



Legacy scale-up storage systems are often time-consuming to manage and difficult to expand. This is because legacy systems utilize a volume-based architecture, typically with many small, separate volumes, that require almost constant management attention. And the larger the data environment becomes, the greater the complexity. As such, legacy storage systems are often a growing drain on IT management resources and costs.

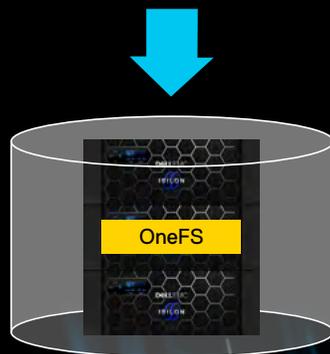
Traditional

Multiple RAID, volumes and file systems. Limited size of single volume.



Isilon

One volume, one file system up to 68 PB.



Dell EMC Isilon is a powerful yet simple scale-out NAS solution for organizations that want to invest in managing their data, not their storage. The Isilon OneFS operating system uses a single volume, single namespace, single file system architecture, making Isilon storage systems simple to install, manage and scale.

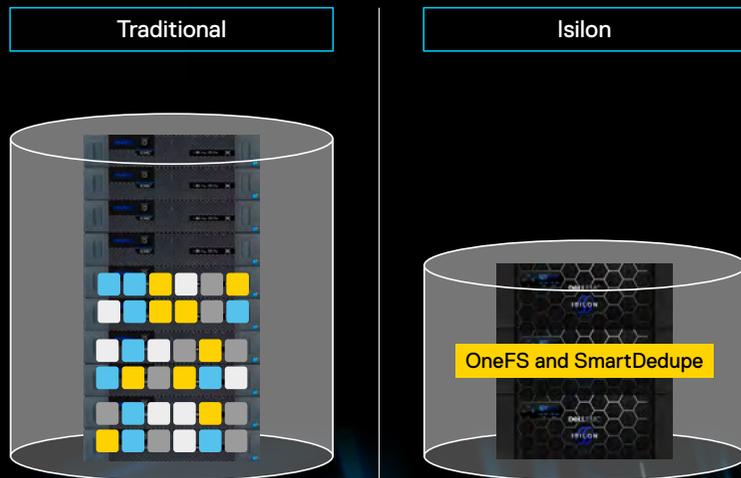
With automated, policy-based management options including data protection, replication, load-balancing, storage tiering and cloud integration, Isilon solutions remain simple to manage no matter how large your data environment becomes.



EFFICIENCY

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With legacy storage systems, over-provisioning of storage capacity for multiple volumes is common. As a result of these inefficiencies, the raw storage utilization of legacy storage is typically around 55 percent. This means that about 45 percent of your storage investment is going unused.

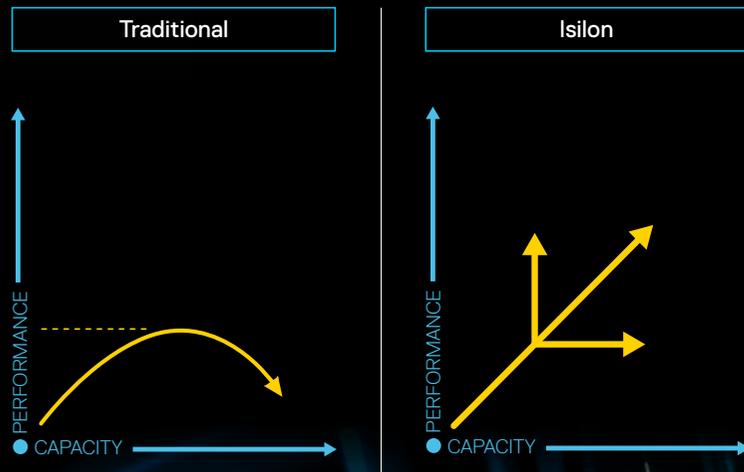


A recent Total Economic Impact study by Forrester Consulting found that Isilon solutions deliver up to 85 percent utilization. The key reason for this is Isilon's single volume architecture. Isilon also provides a more efficient data protection approach, automated tiering to optimize storage resources and a data deduplication option that enables you to further reduce your raw storage requirements by up to 35 percent across your entire Isilon cluster.

SCALABILITY

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Due to their inherently complex architecture, legacy storage systems are difficult to scale – from both a performance and capacity perspective. Typically, when acquiring legacy systems, organizations need to predict their performance requirements for the next 3 years and then purchase it upfront. If an organization mis-estimates their needs, it will either need to acquire an entirely new system sooner than expected or end up over-spending. Another issue with a legacy system is that, as data volume grows and the system begins to fill, system performance typically begins to decline, making it harder to meet SLAs and line-of-business user requirements.



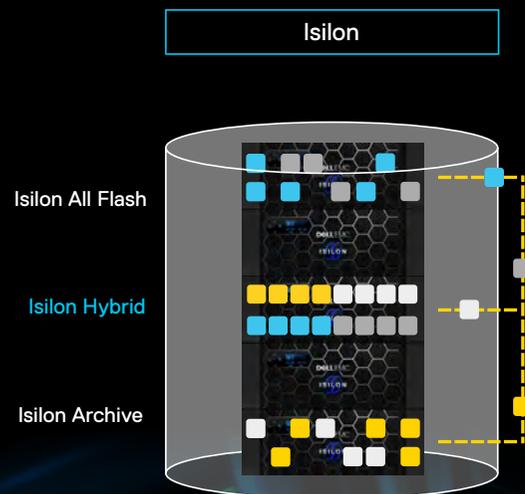
Isilon provides massive scalability – you can begin with a solution that stores 10's of terabytes (TB) and then easily expand as your needs evolve, to a capacity of 10's petabytes (PB) – all using Isilon's single volume design. With Isilon, you can quickly scale performance and capacity whenever needed in a matter of minutes by simply adding new Isilon nodes to your existing cluster. Once the new nodes are added, the AutoBalance feature of the Isilon OneFS operating system automatically redistributes data and rebalances capacities across all nodes in the cluster. This simplifies management, avoids potential "hot spots", eliminates over-provisioning and helps to increase overall storage utilization in the cluster.

And with Isilon's scale-out storage architecture, performance and capacity scales predictably and essentially linearly as you add nodes to your cluster. The larger your data environment becomes, the greater the performance you'll get.

SEAMLESS TIERING

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Legacy scale-up systems have no real tiering capability. Retaining frequently used data in cache – sometimes called “tiering” – is a misnomer. Administrators must manually move data to storage that is optimized for performance and reliability characteristics. Lack of tiering introduces inefficiencies in cost and performance. Isilon enables you to deploy a multi-tiered storage solution that optimizes for economics, capacity, throughput and performance within the same cluster and a single file system. With this capability, you can ensure that your data is supported with the most appropriate storage resources.



For example, you can deploy a solution that combines Isilon All-Flash, Hybrid and Archive storage to support a wide range of applications and use cases with a single Isilon cluster.

Using a policy-based approach based on parameters you choose (such as file type, age of data, frequency of access, etc.), Isilon SmartPools software automates the data movement between tiers to maximize storage ROI without incurring risks in performance, capacity or data migrations. With Isilon CloudPools software, you can extend this approach to a choice of cloud storage providers. And with Isilon, tiering is all done completely transparently and non-disruptively to end users and applications.

IN-PLACE ANALYTICS

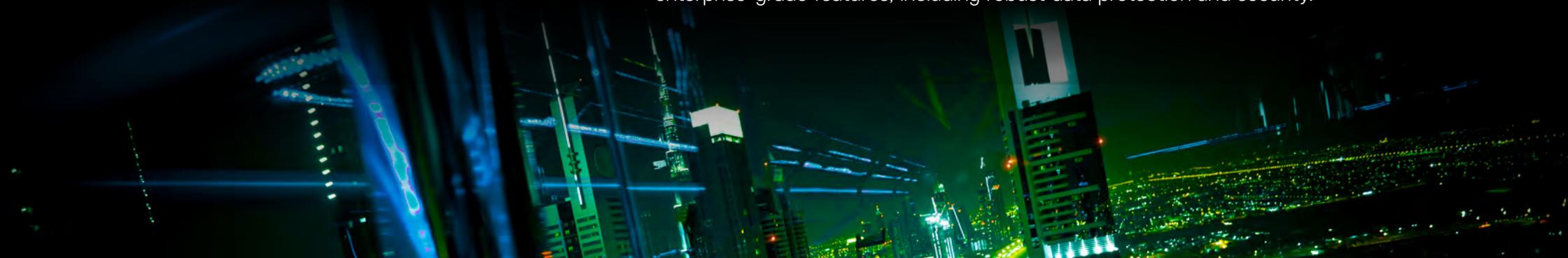
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Legacy storage systems do not provide native support for data analytics tools such as the Hadoop Distributed File System (HDFS). This means that an organization with a legacy system must build out an entirely new infrastructure for data analytics workloads, manually move data there and triple mirror the data for data protection purposes. This results in higher costs, added complexity and more inefficiencies. It also means that it takes longer to get value from analytics initiatives. And because data assets are often changing, analytics projects aren't always utilizing the latest information.



Isilon's built-in multiprotocol capabilities, including native support for HDFS, means that Isilon solutions can support a wide range of applications, including data analytics, on a single Isilon cluster. This makes Isilon an ideal platform for data consolidation and highly efficient 'in-place' data analytics projects. There is no need to build a separate analytics infrastructure or to copy and move large data sets. This helps you to avoid unnecessary costs, save time and gain insight from analytics initiatives faster.

With Isilon, you can provide an Analytics-as-a-Service platform for your entire business that saves money, accelerates time to results and provides enterprise-grade features, including robust data protection and security.



HASSLE-FREE MIGRATION

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Many organizations with legacy storage systems have rationalized migration to a new storage platform by taking an “if it’s not broke don’t fix it” approach. And based on their painful experiences with transitions from previous generations of their legacy platform, this is entirely understandable. The question then become: How to move away from the cost and complexity of a legacy system to a modern infrastructure that allows IT to better meet the business needs of an increasingly digital world?

A great answer to this question is the Dell EMC “Simple is Smart” program. This program helps you make a smooth transition to a modern, scale-out storage system that eliminates the headaches of your legacy system while gaining a storage platform that helps you lower costs, simplify management and increase business agility.



With the purchase of a qualified Dell EMC Isilon scale-out NAS storage system and the retirement of a qualified competitive system, customers may be able to drastically reduce, if not eliminate, the cost of migration from legacy systems.

Dell EMC provides analysis, planning, design, setup and execution of the migration project as an end-to-end service. On-site resources (Dell EMC Professional Services) can coordinate with remote migration team to ensure a great experience for you.

And once you move to Isilon, you’ll never need to migrate again. With Isilon, you can add or remove nodes in your Isilon cluster easily, without impacting users or applications. This means that you can refresh hardware and implement software upgrades without disruption.

SUMMARY

Now is the time to replace that legacy storage system with a modern scale-out storage system. And Dell EMC will help you every step of the way. Your new Isilon scale-out NAS storage solution will allow you to:

- ♦ **REDUCE** costs and complexity
- ♦ **INCREASE** efficiency
- ♦ **SCALE** easily as needed
- ♦ **OPTIMIZE** performance and storage resources with automated tiering
- ♦ **GAIN** operational flexibility by supporting multiple applications, including data analytics, on a single platform.

[LEARN MORE ABOUT THE DELL EMC "SIMPLE IS SMART" PROGRAM >](#)

