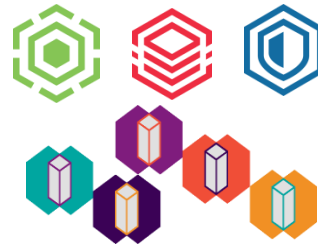


IBM TS4300 with IBM Spectrum Storage

- The Perfect Match -



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IBM Storage & SDI

IBM Spectrum Storage and IBM TS4300 at a glance



- In July 2017 IBM – The #1 tape vendor in the market - will announce a new scalable and modular tape library: IBM TS4300
- IBM Spectrum Storage – The #1 Storage Defined Solution in the market - is the perfect match for the TS4300, thus offering customers One Stop Shop Solution.
- Like the TS4300 also the IBM Spectrum Suite is designed with the “Grow with customer needs” principle in mind. Both solutions are capable of satisfying the needs of customers of any size and can seamlessly grow with the customer needs.

- Spectrum Protect and TS4300 will not offer only a technology leading back-up solution for customers of virtually any size, but will also dramatically reduce infrastructure cost and improve TCO.
- Spectrum Scale with Spectrum Archive and TS4300 will enable customers to implement highly parallel and scalable infrastructures suitable for media, streaming, cognitive and file-serving workloads with an excellent TCO. Spectrum Scale’s policy driven data placement together with Spectrum Archive will allow “cold” data to be transparently migrated to the TS4300 thus dramatically reduce the cost compared to Tier 2 and Tier 3 disk storage.



Next generation storage solution designed to help mid-size enterprises respond future challenges

- Scalability- Modular design enables users to increase cartridge and drive capacity as needed
- Environmental savings- Help reduce the costs of data center space for storage and related utilities with a high-density solution
- Ease of Management - Simplify tape storage deployment and management with best-in-class error recovery and reporting, library health monitoring and alerting, and auto-recovery features



IBM Spectrum Storage Suite



Virtualize



Accelerate



Cloud Object Storage



Scale

~~Sites~~
\$Savings
↑ Performance



Archive

Save
up to 90%



Control



Protect

Save
up to 53%



Secure



Any Storage



Efficient



Flash



High-
Performance



Hybrid Cloud



Storage Rich
Servers

Why IBM TS4300 and IBM Spectrum Protect?



Protect

- IBM Spectrum Protect is a technology leading back-up solution which helps reduce back-up complexity and infrastructure cost by 53%
- IBM Spectrum Protect can easily scale to meet the requirements of small to very large environments
- IBM Spectrum Protect has integrated High-Availability and Disaster Recovery capabilities: Policy driven remote replication, recovery fail-over, and more
- IBM Spectrum protect allows a variety of back-up storage (disk, tape, cloud) giving you the ability to choose the right option for the right data tier.
- IBM Spectrum Protect offers *advanced integration* into virtualized server infrastructures (VM-Ware, Hyper-V), Databases (DB2, Oracle, MS SQL-Server), ERP (SAP-HANA), File systems, MS Exchange and Lotus Domino, etc.
- Reduce back-up times with the built-in snapshot technologies

Why IBM TS4300 and IBM Spectrum Scale w. Archive?

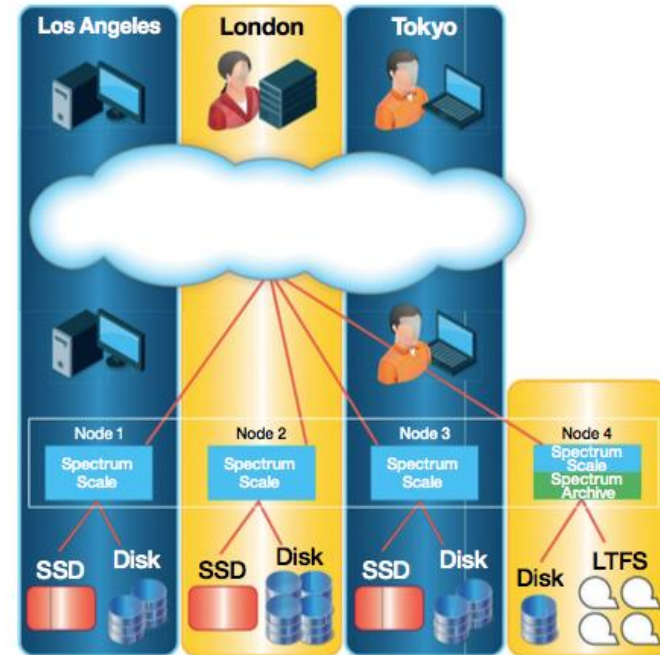


Scale



Archive

- IBM Spectrum Scale is an enterprise-grade parallel file system that provides superb resiliency, scalability and control, perfectly suited for building scalable NAS infrastructures and supporting media, streaming, analytics and cognitive applications
- IBM Spectrum Scale offers policy based data placement and data movement to lower or higher tier of storage depending on set criteria, like access frequency, etc.
- IBM Spectrum Archive interacts with IBM Spectrum Protect allowing the transparent placement of “cold” data on tape thus significantly reducing the infrastructure cost. Data is still kept in the single name space.
- By replacing Tier 2 and Tier 3 disk storage with tape, organizations can achieve a new operational efficiency and cost effectiveness—at about 10 percent of the cost of purchasing equivalent disk-based environments



Example Customer Scenarios – Data Infrastructure



- IBM TS4300 will enable Media & Entertainment customers to store up to ~2,000 hours of Ultra High Definition (3.2 PB of data) video at maximum capacity. IBM Spectrum Scale will provide the high throughput infrastructure for non-linear editing and parallel streaming. Once there is no need for high speed access, Spectrum Archive will migrate the media files back to the TS4300 thus reducing the required cost for long-term storage
- Companies having the need to store data for legal and compliance purposes can off-load this data to IBM TS4300 from their highly scalable Spectrum Scale file serving infrastructure using Spectrum Archive. Those customers can be in the Financial industries, car manufacturers (especially those active in the assisted and autonomous driving segment), security (video surveillance, body-cams), etc.
- Customers using analytics applications which want to improve the access to and cost of long term data storage (Oil and gas industries, geo-physical research, life sciences, etc.)
- Last but not least, all MSPs which want to improve the cost for their file services.

Example Customer Scenarios. Back-Up



- Pay as you grow – Data growth and the associated back-up requirements is one of the key components which drives the importance of predictable infrastructure scalability and investment. The IBM TS4300 is a scalable modular system which is a perfect match for the scalable design of Spectrum Protect. Customer can extend the TS4300 as needed as well as transparently scale-out or scale-up Spectrum Protect.
- Spectrum Protect can - due to advanced techniques like Incremental forever, etc. – reduce infrastructure cost by 53%. The TS4300 can reduce the cost of back-up storage but also cost associated with data center space, electricity and cooling compared to a pure disk solution. This makes the combination of TS4300 and Spectrum Protect also very attractive for smaller and medium-sized customers.
- Customers in the education sector, libraries and publishers want a cost effective way infrastructure to address the demand of digitizing historic assets. IBM TS4300 in combination with Spectrum Protect, Spectrum Scale and Spectrum Archive can provide a very comprehensive, technically advanced and yet cost effective infrastructure.
- Managed Service Providers (MSP) which intend extend their back-up offering based on different back-up tiers.

Top Reasons why IBM is the vendor to partner with for Software Defined Storage and Tape

- #1 Tape Vendor for consecutive 12 years
- #1 in Software Defined Storage
- #1 Business Resiliency Solution
- Hybrid Cloud Optimized
- Modernization through Software Defined Storage Architecture
- Optimize your current investments
- Ease of Consumption
- Optimal Tier Economics



Further Information

- IBM Spectrum Storage Suite

<https://www.ibm.com/ms-en/marketplace/software-defined-storageIBM>

- Spectrum Protect

<http://www-03.ibm.com/software/products/en/spectrum-protect>

- IBM Spectrum Scale

<https://www.ibm.com/us-en/marketplace/scale-out-file-and-object-storage>

- IBM Spectrum Archive

<https://www-03.ibm.com/systems/storage/tape/ltfs/>

- IBM TS4300 Tape Library

<https://www.ibm.com/storage/tape>