EASY-TO-USE, AFFORDABLE STORAGE WITH ADVANCED CAPABILITIES FOR SMALL AND MIDSIZED BUSINESSES

The IBM Storwize® family, including IBM Storwize V3700 helps organizations achieve better data economics by supporting these new workloads that are critical to their success. Storwize family systems can handle the massive volumes of data from mobile and social applications, enable rapid and flexible cloud services deployments, and deliver the performance and scalability needed to gain insights from the latest analytics technologies.

IBM Storwize V3700, the entry-level system in the IBM Storwize family, is an efficient, easy-to-use system designed to complement virtual server environments while delivering flexibility and innovative storage functions. To help address block storage requirements, Storwize V3700 is designed to provide small and midsized organizations with the ability to consolidate and share data at an affordable price, while leveraging advanced software capabilities usually found in more expensive systems. Providing up to 240 drives of capacity, Storwize V3700 delivers proven ease of management, functionality and interoperability.

SIMPLIFY MANAGEMENT

Storwize V3700 comes with an easy-to-use management interface based on the breakthrough Storwize family graphical user interface (GUI). With dynamic and customizable views, the interface is designed to give administrators intuitive control of the system, while interactive menus, tabs and charts can also help improve productivity.

An application provides monitoring capabilities to securely check the health and performance of the system remotely from a mobile device. The built-in performance dashboard provides at-a-glance access to key high-level real-time system performance information.

OPTIMIZE EFFICIENCY

Using thin provisioning, applications consume only the space they are actually using, versus the total space that they have been allocated. Designed to keep business overhead low, thin provisioning optimizes efficiency by allocating disk storage space in a flexible manner among multiple users, based on the minimum space required by each user at any given time. This can help organizations save power, lower heat generation and reduce hardware space requirements.

Automated storage tiering with IBM Easy Tier, an optional function for Storwize V3700, is designed to help improve performance at lower cost through more efficient use of flash storage or multiple types of disk drives. Easy Tier automatically and dynamically moves the appropriate data across storage tiers to meet performance objectives at the most reasonable cost by identifying and moving less-frequently accessed data to the most economical drive tier without
sacrificing performance. Similarly, frequently accessed data for busy workloads is automatically migrated to faster storage such as flash to ensure lower response times for those applications that need it. Using Easy Tier, you can improve performance up to three times with only five percent flash storage capacity.

Storwize V3700 also includes storage pool balancing that operates automatically to distribute data across arrays in a pool to deliver balanced array performance and help eliminate the need for manual tuning. The function is sensitive to different drive types and takes their capabilities into account with no intervention required.

**PROTECT DATA**

Storwize V3700 includes IBM FlashCopy® technology, which is designed to create an almost-instant copy of active data that can be used for backup purposes or for parallel processing activities.

In addition, the optional remote mirroring function enables organizations to create copies of data at remote locations for disaster recovery. Metro Mirror supports synchronous replication at distances up to 300 km, whereas Global Mirror supports asynchronous replication up to 8,000 km. Replication can occur between any Storwize family systems, and can include any supported virtualized storage. Remote mirroring works with Fibre Channel, Fibre Channel over Ethernet (FCoE) and IP (Ethernet) networking between sites. With IP networking, Storwize V3700 uses innovative Bridgeworks SANrockIT technology to optimize use of network bandwidth. As a result, the networking infrastructure may require lower speeds (and thus, lower costs), or users may be able to improve the accuracy of remote data through shorter replication cycles.

**AVOID DISRUPTIONS**

Storwize V3700 includes a dynamic data migration function that is designed to move data from existing block storage into the new system while maintaining user access to data. The data migration function might be used, for example, when replacing older storage with newer storage, as part of load-balancing work.

**WHY SYSTEM X**

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphical user interface (GUI)</td>
<td>Enhance IT productivity with an easy-to-use GUI and point-and-click system management capabilities</td>
</tr>
<tr>
<td>IBM Systems Director</td>
<td>Provide integrated management for physical and virtual server infrastructures, including monitoring and repairing for higher availability and operational efficiency</td>
</tr>
<tr>
<td>IBM Storage Mobile Dashboard</td>
<td>Provide basic monitoring capabilities to securely check the health and performance status of your system</td>
</tr>
<tr>
<td>IBM FlashCopy</td>
<td>• Create a near-instant copy of active data that can be used for backup or for parallel processing activities; support backup for recovering corrupted data</td>
</tr>
<tr>
<td>Thin provisioning</td>
<td>• Make better use of space with incremental or space-efficient (thin-provisioned) snapshots</td>
</tr>
<tr>
<td>Data migration</td>
<td>• Support business applications that need to grow dynamically, while consuming only the space actually used</td>
</tr>
<tr>
<td>IBM Easy Tier</td>
<td>• Use available storage across supported host platforms to improve storage utilization</td>
</tr>
<tr>
<td>Metro Mirror and Global Mirror</td>
<td>• Provide efficiency and business value in a non-disruptive migration function</td>
</tr>
<tr>
<td>Turbo performance</td>
<td>• Provide automatic migration of frequently accessed data elements among tiers of storage, including flash</td>
</tr>
<tr>
<td>DC-powered models</td>
<td>• Allow synchronous or asynchronous data replication between any Storwize family system for maximum flexibility and backup efficiency</td>
</tr>
<tr>
<td>NEBS Level 3 and ETSI compliance</td>
<td>• Help optimize the use of network bandwidth with IP replication and Bridgeworks SANSlide technology</td>
</tr>
<tr>
<td>IBM Storage Mobile Dashboard</td>
<td>Increase system maximum input/output operations per second (IOPS) by 50 percent and maximum throughput by 100 percent</td>
</tr>
<tr>
<td>IBM Easy Tier</td>
<td>Meet the telecommunication standard –48 V dc power source requirement</td>
</tr>
<tr>
<td>IBM FlashCopy</td>
<td>Improve resiliency in the most intense and harsh environments</td>
</tr>
</tbody>
</table>

**Cache per controller**

4 GB upgradable to 8 GB

**Drive type**

Dual-port, hot-swappable 6 Gb SAS disk drives

**User interface**

Storwize V3700 graphical user interface

**Supported drives**

Small form-factor 2.5-inch disk drives:
- 146 GB, 300 GB at 15k rpm
- 600 GB, 900 GB and 1.2 TB at 10k rpm
- 1 TB at 7.2k rpm SAS nearline
Large form-factor 3.5-inch disk drives:
- 2 TB, 3 TB, 4 TB, and 6 TB at 7.2k rpm
- 900 GB and 1.2 TB at 10k rpm
- 300 GB at 15k rpm
Solid-state drives (SSD):
- 200 GB, 400 GB, 800 GB, and 1.8 TB

**Maximum drives supported per enclosure**

Small form-factor enclosure: 24 x 2.5-inch drives

Large form-factor enclosure: 12 x 3.5-inch drives

**Total number of drives supported**

240 drives per system

© 2015 Lenovo. All rights reserved. Lenovo, the Lenovo logo and For Those Who Do are trademarks or registered trademarks of Lenovo in the United States, other countries, or both. 1- TheInfoPro “Wave 17 Storage Study,” 451 Research, October 2013. https://451research.com/component/content/article/15/254-theinfopro-wave-17-storage-study, 2- IBM storage Infrastructure optimization studies – April 2014, 3- IBM lab measurements – August 2010. Product capacity is specified in gigabytes (GB), where 1GB = 1,000,000,000 bytes or terabytes, where 1TB = 1,000,000,000,000 bytes. The capacity reported by your operating system may vary.