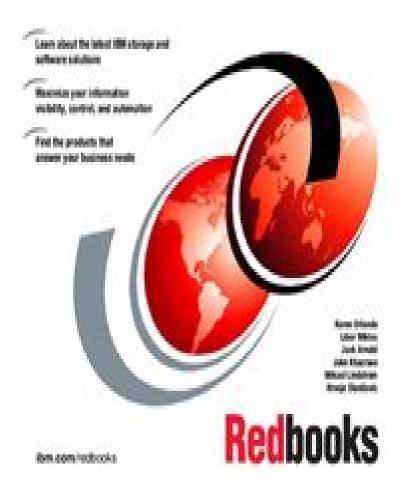


# IBM System Storage Solutions Handbook



# **Enterprise Storage Solutions Handbook**

Jon Tate, Pall Beck, Hector Hugo Ibarra, Shanmuganathan Kumaravel, Libor Miklas, IBM Redbooks

# **Enterprise Storage Solutions Handbook:**

**Enterprise Storage Solutions Handbook** Ibm Redbooks,2001 IBM System Storage Solutions Handbook Ezgi Coskun, Mikael Lindström, Maciej Olejniczak, Oliver Stark, Megan Gilge, IBM Redbooks, 2016-07-15 The IBM System Storage Solutions Handbook helps you solve your current and future data storage business requirements It helps you achieve enhanced storage efficiency by design to allow managed cost capacity of growth greater mobility and stronger control over storage performance and management It describes the most current IBM storage products including the IBM SpectrumTM family IBM FlashSystem disk and tape as well as virtualized solutions such IBM Storage Cloud This IBM Redbooks publication provides overviews and information about the most current IBM System Storage products It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency IBM storage products can help you store safeguard retrieve and share your data This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio It provides a starting point for establishing your own enterprise storage environment This book describes the IBM Storage products as of March 2016 IBM System Storage Solutions Handbook Ezgi Coskun, 2016 IBM Information Infrastructure Solutions Handbook Sangam Racherla, Vikas Bajaj, Emile Knebel, Glenn Korn, Anna Kutepova, Gary Newell, Sebastian Szumczyk, IBM Redbooks, 2010-07-11 An information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners With the explosive growth in data and information coupled with demands for projects with rapid ROI IT infrastructures and storage administrators are reaching a breaking point IBM can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget And because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives IBM offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access You can control protect manage and gain new intelligence from your information with the IBM leading edge Information Infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world This IBM Redbooks publication provides an overview of the IBM Information Infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security This will lead your company toward improved productivity service delivery and reduced risk while streamlining costs IBM System Storage Solutions Handbook Karen Orlando, Libor Miklas, Jack Arnold, John Khazraee, Mikael Lindstrom, Hrvoje Stanilovic, 2013 This IBM Redbooks publication provides overviews and pointers for information about the most current IBM System Storage products showing how IBM delivers the right mix of products for

nearly every aspect of business continuance and business efficiency IBM System Storage products can help you store safeguard retrieve and share your data The following topics are covered Part 1 introduces IBM Smarter Storage solutions It provides overviews of IBM Smart Storage Cloud IBM SmartCloud Virtual Storage Center VSC as well as an overview of the new IBM PureSystems offerings Part 2 describes the IBM disk products that include IBM System Storage DS Series entry level midrange and enterprise offerings Part 3 presents an overview of the IBM TotalStorage and System Storage Tape Drives IBM Tape Automation Products and IBM Tape Virtualization Solutions and products Part 4 describes storage networking infrastructure and presents the switches and directors to form SAN solutions as well as converged networks and data center networking Part 5 describes the IBM System Storage software portfolio including Tivoli Storage Manager version 6 4 Tivoli Storage Productivity Center version 5 1 1 and IBM General Parallel File System IBM GPFS Part 6 describes the z OS storage management software and tools Finally the Appendixes provide information about High Performance Storage System HPSS and IBM FlashSystem Storage This book is intended as a reference for basic and comprehensive information about the IBM System Storage products portfolio The book provides a starting point when establishing your own enterprise storage environment IBM System Storage Business Continuity: Part 2 Solutions Guide Charlotte Brooks, Clem Leung, Aslam Mirza, Curtis Neal, Yin Lei Qiu, John Sing, Francis TH Wong, Ian R Wright, IBM Redbooks, 2009-06-09 This IBM Redbooks publication is a companion to IBM System Storage Business Continuity Part 1 Planning Guide SG24 6547 We assume that the reader of this book has understood the concepts of Business Continuity planning described in that book In this book we explore IBM System Storage solutions for Business Continuity within the three segments of Continuous Availability Rapid Recovery and Backup and Restore We position these solutions within the Business Continuity tiers We describe in general the solutions available in each segment then present some more detail on many of the products In each case the reader is pointed to sources of more information IBM System Storage Business Continuity: Part 1 Planning Guide Charlotte Brooks, Clem Leung, Aslam Mirza, Curtis Neal, Yin Lei Qiu, John Sing, Francis TH Wong, Ian R Wright, IBM Redbooks, 2007-03-07 A disruption to your critical business processes could leave the entire business exposed Today s organizations face ever escalating customer demands and expectations There is no room for downtime You need to provide your customers with continuous service because your customers have a lot of choices Your competitors are standing ready to take your place As you work hard to grow your business you face the challenge of keeping your business running without a glitch To remain competitive you need a resilient IT infrastructure This IBM Redbooks publication introduces the importance of Business Continuity in today s IT environments It provides a comprehensive guide to planning for IT Business Continuity and can help you design and select an IT Business Continuity solution that is right for your business environment We discuss the concepts procedures and solution selection for Business Continuity in detail including the essential set of IT Business Continuity requirements that you need to identify a solution We also present a rigorous Business Continuity Solution

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include IBM TS7700 Advanced Object Store an all flash TS7770 grid resiliency enhancements and Logical WORM retention By using the same hierarchical storage techniques the TS7700 TS7770 and TS7760 can also off load to object storage Because object storage is cloud based and accessible from different regions the TS7700 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of this writing the TS7700C supports the ability to off load to IBM Cloud Object Storage Amazon S3 and RSTOR This publication explains features and concepts that are specific to the IBM TS7700 as of release R5 2 The R5 2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements IBM DS8000 Object Storage enhancements Management Interface dual control security and other smaller enhancements The R5 2 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only Note The latest Release 5.2 was split into two phases R5 2 Phase 1 also referred to as and R5 2 Phase 2 and R TS7700 provides tape virtualization for the IBM z environment Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world Tape virtualization can help satisfy the following requirements in a data processing environment New and existing capabilities of the TS7700 5 2 2 release includes the following highlights Eight way Grid Cloud which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects Grid access to all logical volume and object data that is independent of where it exists An all flash TS7770 option for improved performance Full Advanced Object Store Grid Cloud support of DS8000 Transparent Cloud Tier Full AES256 encryption for data that is in flight and at rest Tight integration with IBM Z and DFSMS policy management DS8000 Object Store AES256 in flight encryption and compression Regulatory compliance through Logical WORM and LWORM Retention support Cloud Storage Tier support for archive logical volume version and disaster recovery Optional integration with physical tape 16 Gb IBM FICON throughput that exceeds 5 GBps per TS7700 cluster Grid Resiliency Support with Control Unit Initiated Reconfiguration CUIR support IBM Z hosts view up to 3 968 common devices per TS7700 grid TS7770 Cache On demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1160 IBM TS1150 and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library The TS7770 models are based on high performance and redundant IBM POWER9TM technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700 OpenView Network Node Manager John Blommers, 2001 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

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