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This IBM® Redbooks® publication will help you design and manage an end-to-end, extended distance connectivity architecture for IBM System z®. This solution addresses your requirements now, and positions you to make effective use of new technologies in the future. Many enterprises implement extended distance connectivity in a silo manner. However, effective

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extended distance solutions require the involvement of different teams within an organization. Typically there is a network group, a storage group, a systems group, and possibly other teams. The intent of this publication is to help you design and manage a solution that will provide for all of your System z extended distance needs in the most effective and flexible way possible. This book introduces an approach to help plan, optimize, and maintain all of the moving parts of the solution together.

This IBM® Redbooks® publication describes the

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features and functions the latest member of the IBM Z® platform, the IBM z15™ (machine type 8561). It includes information about the IBM z15 processor design, I/O innovations, security features, and supported operating systems. The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks: Making use of multicloud integration services Securing data with

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pervasive encryption

Accelerating digital
transformation with agile
service delivery

Transforming a transactional
platform into a data
powerhouse Getting more out
of the platform with IT

Operational Analytics

Accelerating digital
transformation with agile
service delivery

Revolutionizing business
processes Blending open
source and Z technologies

This book explains how this
system uses new innovations
and traditional Z strengths
to satisfy growing demand
for cloud, analytics, and
open source technologies.
With the z15 as the base,

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applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

IBM Flex System Products and Technology for Power Systems IBM Redbooks

This IBM® Redbooks® Product Guide publication describes the IBM FlashSystem® 5200 solution, which is a next-generation IBM FlashSystem control enclosure. It is an NVMe end-to-end platform that is targeted at the entry and midrange market and delivers the full capabilities of IBM FlashCore® technology. It also provides a rich set of software-defined storage

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(SDS) features that are delivered by IBM Spectrum® Virtualize, including the following features: Data reduction and deduplication Dynamic tiering Thin provisioning Snapshots Cloning Replication Data copy services Transparent Cloud Tiering IBM HyperSwap® including 3-site replication for high availability (HA) Scale-out and scale-up configurations further enhance capacity and throughput for better availability. The IBM FlashSystem 5200 is a high-performance storage solution that is based on a revolutionary 1U form factor. It consists of 12

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NVMe Flash Devices in a 1U storage enclosure drawer with full redundant canister components and no single point of failure. It is designed for businesses of all sizes, including small, remote, branch offices and regional clients. It is a smarter, self-optimizing solution that requires less management, which enables organizations to overcome their storage challenges. Flash has come of age and price point reductions mean that lower parts of the storage market are seeing the value of moving over to flash and NVMe--based solutions. The IBM FlashSystem 5200 advances

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this transition by providing incredibly dense tiers of flash in a more affordable package. With the benefit of IBM FlashCore Module compression and new QLC flash-based technology becoming available, a compelling argument exists to move away from Nearline SAS storage and on to NVMe. With the release of IBM FlashSystem 5200 Software V8.4, extra functions and features are available, including support for new Distributed RAID1 (DRAID1) features, GUI enhancements, Redirect-on-write for Data Reduction Pool (DRP) snapshots, and 3-site replication capabilities.

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This book is aimed at pre-sales and post-sales technical support and marketing and storage administrators.

IBM SAN Volume Controller

Best Practices and

Performance Guidelines

Introducing Windows Server

2016 Technical Preview

Blade Servers and

Virtualization

The New Data Center

Implementing a VersaStack

Solution by Cisco and IBM

with IBM FlashSystem 5030,

Cisco UCS Mini, Hyper-V, and

SQL Server

Data is the new currency of business, the most critical asset of the

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modern organization. In fact, enterprises that can gain business insights from their data are twice as likely to outperform their competitors.

Nevertheless, 72% of them have not started, or are only planning, big data activities. In addition, organizations often spend too much money and time managing where their data is stored. The average firm purchases 24% more storage every year, but uses less than half of

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the capacity that it already has. The IBM® Storwize® family, including the IBM SAN Volume Controller Data Platform, is a storage virtualization system that enables a single point of control for storage resources. This functionality helps support improved business application availability and greater resource use. The following list describes the business objectives of this system: To manage storage resources

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in your information technology (IT) infrastructure To make sure that those resources are used to the advantage of your business To do it quickly, efficiently, and in real time, while avoiding increases in administrative costs Virtualizing storage with Storwize helps make new and existing storage more effective. Storwize includes many functions traditionally deployed separately in disk systems. By including

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these functions in a virtualization system, Storwize standardizes them across virtualized storage for greater flexibility and potentially lower costs. Storwize functions benefit all virtualized storage. For example, IBM Easy Tier® optimizes use of flash memory. In addition, IBM Real-time Compression™ enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical

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disk space. Finally, high-performance thin provisioning helps automate provisioning. These benefits can help extend the useful life of existing storage assets, reducing costs. Integrating these functions into Storwize also means that they are designed to operate smoothly together, reducing management effort. This IBM Redbooks® publication provides information about the latest features and functions

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of the Storwize V7000

Gen2 and software

version 7.3

implementation,

architectural

improvements, and Easy

Tier.

Finally, a book that

takes a simple approach

to improving

relationships. In

straightforward language

this book introduces the

reader to the

'Relationship Banking'

concept, which has the

power to change forever

the way people look and

conduct at all their

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relationships. This book contains all the information required to teach readers exactly what they need to do to rekindle, repair or rescue their relationship and for a lot less than the cost of one professional counselling session. This book is an easy to read 105 pages, written by a psychologist. It contains all the information needed to dramatically improve our most important relationship - the one

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with our life partner.
VersaStack, an IBM® and
Cisco integrated
infrastructure solution,
combines computing,
networking, and storage
into a single integrated
system. It combines the
Cisco Unified Computing
System (Cisco UCS)
Integrated
Infrastructure with IBM
Spectrum Virtualize™,
which includes IBM
FlashSystem® storage
offerings, for quick
deployment and rapid
time to value for the
implementation of modern

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infrastructures. This IBM Redbooks® publication covers the preferred practices for implementing a VersaStack Solution with IBM FlashSystem 5030, Cisco UCS Mini, Hyper-V 2016, and Microsoft SQL Server. Cisco UCS Mini is optimized for branch and remote offices, point-of-sale locations, and smaller IT environments. It is the ideal solution for customers who need fewer servers but still want the comprehensive

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management capabilities provided by Cisco UCS Manager. The IBM FlashSystem 5030 delivers efficient, entry-level configurations that are designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, the IBM FlashSystem 5030 offers advanced software capabilities such as clustering, IBM Easy

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Tier®, replication and snapshots that are found in more expensive systems. This book is intended for pre-sales and post-sales technical support professionals and storage administrators who are tasked with deploying a VersaStack solution with Hyper-V 2016 and Microsoft SQL Server. IP SANS is a technical overview of the new IP-based storage area network solutions for the explosive growth in data storage

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requirements faced by
today's modern
businesses.

Implementing Systems
Management of IBM
PureFlex System

Distributed Open Systems
IBM b-type Gen 5 16 Gbps
Switches and Network
Advisor

IBM SAN Solution Design
Best Practices for
VMware vSphere ESXi

This IBM® Redbooks® product guide describes the IBM Storage Networking SAN512B-6 (8961-F08) and SAN256B-6 (8961-F04) directors and the IBM b-type Gen 6 Extension Blade (FC 3892, 3893).

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Digital transformation is pushing mission-critical storage environments to the limit, with users expecting data to be accessible from anywhere, at any time, on any device. Faced with exponential data growth, the network must evolve to enable businesses to thrive in this new era. A new approach to storage networking is needed to enable databases, virtual servers, desktops, and critical applications, and to unlock the full capabilities of flash. By treating the network as a strategic part of a storage environment, organizations can maximize their productivity and efficiency even as they rapidly scale their environments. IBM Storage Networking SAN512B-6 and SAN256B-6 directors with Fabric Vision technology are modular building blocks that combine innovative hardware, software, and built-in instrumentation to ensure high levels of operational stability and redefine

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application performance. Fabric Vision technology enhances visibility into the health of storage environments, delivering greater control and insight to quickly identify problems and achieve critical service level agreements (SLAs).

Breakthrough 32 Gbps performance shatters application performance barriers and provides support for more than 1 billion input/output operations per second (IOPS) for flash-based storage workloads while 128 Gbps UltraScale inter-chassis links enable simplified, high-bandwidth scalability between directors.

The Fibre Channel Association is a group of companies involved in developing devices and technologies used with Fibre Channel, a very high-speed bus technology capable of bi-directional data transfer at rates in excess of one gigabit per second. Describes how to use Fibre Channel technology to connect between

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storage devices and network servers for maximum data transfer Authoring association is a group of companies involved in developing devices and technologies used with Fibre Channel Discusses cutting edge technology capable of bi-directional data transfer at rates in excess of one gigabit per second

This IBM® Redbooks® publication introduces the latest member of the IBM Z platform, the IBM z14 Model ZR1 (Machine Type 3907). It includes information about the Z environment and how it helps integrate data and transactions more securely, and provides insight for faster and more accurate business decisions. The z14 ZR1 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z14 ZR1 is designed for enhanced modularity, which is in an industry

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standard footprint. This system excels at the following tasks: Securing data with pervasive encryption Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Providing resilience towards zero downtime Accelerating digital transformation with agile service delivery Revolutionizing business processes Mixing open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z14 ZR1 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

This IBM® Redbooks® publication describes the IBM Storage Area Network and IBM SAN Volume Controller

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Stretched Cluster solution when combined with PowerVM® and PowerHA®. We describe guidelines, settings, and the implementation steps that are necessary to achieve a successful implementation. This book is for administrators who are familiar with the SAN, IBM SAN Volume Controller, and IBM PowerVM and PowerHA Systems.

IBM FlashSystem 9200 Product Guide

IBM z15 Configuration Setup

xREF: System x Reference

Technology Forecast

IBM FlashSystem 5200 Product Guide

IBM® System Storage® Gen 5 fabric backbones are among the industry's most powerful Fibre Channel switching infrastructure offerings. They provide reliable, scalable, and high-performance foundations for mission-critical storage. These fabric

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backbones also deliver enterprise connectivity options to add support for IBM FICON® connectivity, offering a high-performing and reliable FICON infrastructure with fast and scalable IBM System z® servers. Designed to increase business agility while providing nonstop access to information and reducing infrastructure and administrative costs, Gen 5 Fibre Channel fabric backbones deliver a new level of scalability and advanced capabilities to this robust, reliable, and high-performance technology. Although every network type has unique management requirements, most organizations face similar challenges managing their network environments. These challenges can include minimizing

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network downtime, reducing operational expenses, managing application service level agreements (SLAs), and providing robust security. Until now, no single tool could address these needs across different network types. To address this issue, the IBM Network Advisor management tool provides comprehensive management for data, storage, and converged networks. This single application can deliver end-to-end visibility and insight across different network types by integrating with Fabric Vision technology; it supports Fibre Channel SANs, including Gen 5 Fibre Channel platforms, IBM FICON, and IBM b-type SAN FCoE networks. In addition, this tool supports comprehensive lifecycle management capabilities

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across different networks through a simple, seamless user experience. This IBM Redbooks® publication introduces the concepts, architecture, and basic implementation of Gen 5 and IBM Network Advisor. It is aimed at system administrators, and pre- and post-sales support staff.

Blade server systems and virtualization are key building blocks for Next Generation Enterprise Data centers. Blades offer modular, pre-wired, ultra high-density servers (up to 10x traditional servers) with shared components (power, cooling, switches) – reducing complexity and cost, and improving flexibility, availability, manageability, and maintainability. Virtualization enables consolidation of physical servers by allowing many

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virtual servers to run concurrently on one physical server – improving system utilization, reducing the total number of physical servers, reducing costs, and increasing flexibility This is the first book covering these complementary technologies and how, together, they provide a strong foundation for the future It examines the history, architectures, features, examples, and user case studies of blade systems and virtualization, and offers guidance and considerations for how to evaluate and implement solutions

This IBM® Redbooks® publication provides guidance about how to configure, monitor, and manage your IBM DS8880 storage systems to achieve optimum performance, and it also covers the IBM DS8870 storage

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system. It describes the DS8880 performance features and characteristics, including hardware-related performance features, synergy items for certain operating systems, and other functions, such as IBM Easy Tier® and the DS8000® I/O Priority Manager. The book also describes specific performance considerations that apply to particular host environments, including database applications. This book also outlines the various tools that are available for monitoring and measuring I/O performance for different server environments, and it describes how to monitor the performance of the entire DS8000 storage system. This book is intended for individuals who want to maximize the performance of their

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DS8880 and DS8870 storage systems and investigate the planning and monitoring tools that are available. The IBM DS8880 storage system features, as described in this book, are available for the DS8880 model family with R8.0 release bundles (Licensed Machine Code (LMC) level 7.8.0). Storage Area Networks provide highly reliable, high-performance connectivity between hosts and storage devices. This allows storage resource sharing, improving asset utilization, and enabling solutions such as high availability, disaster recovery, information lifecycle management, and utility computing. These solutions provide a high return on investment, resulting in an accelerating SAN adoption rate in all IT markets. This

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book provides an overview of SAN protocols and technologies, and practical guidance on SAN design, implementation, and management topics. Some future SAN trends and technologies are discussed, but the focus is on designing SANs with current, real-world products such as Fibre Channel switches and routers. Principles of SAN Design offers a "one stop shop" for SAN design knowledge. Why wait? Read the definitive work on SAN design today!

IBM z15 (8561) Technical Guide
Implementing IBM FlashSystem V9000
- AC3 with Flash Enclosure Model
AE3
Official Certification Study Guide
(Exam HPE0-V14)
Storage Networking Protocol

Online Library Brocade 16gb Fibre Channel San Switch Module For Hpe Synergy Fundamentals

IBM Power System IC922 Technical
Overview and Introduction

Today's global organizations depend on being able to unlock business insights from massive volumes of data. Now, with IBM® FlashSystem 900, powered by IBM FlashCore™ technology, they can make faster decisions based on real-time insights and unleash the power of the most demanding applications, including online transaction processing (OLTP) and analytics databases, virtual desktop infrastructures (VDIs), technical computing applications, and cloud environments. This IBM Redbooks® publication introduces

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clients to the IBM FlashSystem® 900. It provides in-depth knowledge of the product architecture, software and hardware, implementation, and hints and tips. Also illustrated are use cases that show real-world solutions for tiering, flash-only, and preferred-read, and also examples of the benefits gained by integrating the FlashSystem storage into business environments. This book is intended for pre-sales and post-sales technical support professionals and storage administrators, and for anyone who wants to understand how to implement this new and exciting technology. This book describes the

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following offerings of the IBM
Spectrum™ Storage family: IBM
Spectrum Storage™ IBM
Spectrum Control™ IBM
Spectrum Virtualize™ IBM
Spectrum Scale™ IBM Spectrum
Accelerate™

To meet today's complex and ever-changing business demands, you need a solid foundation of compute, storage, networking, and software resources. This system must be simple to deploy, and be able to quickly and automatically adapt to changing conditions. You also need to be able to take advantage of broad expertise and proven guidelines in systems management, applications, hardware

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maintenance, and more. The IBM® PureFlex® System combines no-compromise system designs along with built-in expertise and integrates them into complete, optimized solutions. At the heart of PureFlex System is the IBM Flex System® Enterprise Chassis. This fully integrated infrastructure platform supports a mix of compute, storage, and networking resources to meet the demands of your applications. The solution is easily scalable with the addition of another chassis with the required nodes. With the IBM Flex System Manager®, multiple chassis can be monitored from a single panel. The 14 node, 10U chassis

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delivers high-speed performance complete with integrated servers, storage, and networking. This flexible chassis is simple to deploy now, and to scale to meet your needs in the future. This IBM Redbooks® publication describes IBM PureFlex System and IBM Flex System available from IBM. It highlights the technology and features of the chassis, compute nodes, management features, and connectivity options. Guidance is provided about every major component, and about networking and storage connectivity. This book is intended for customers, IBM Business Partners, and IBM employees who want to know the

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details about the new family of products. It assumes that you have a basic understanding of blade server concepts and general IT knowledge.

This IBM® Redpaper publication is a comprehensive guide that covers the IBM Power System IC922 (9183-22X) server that uses IBM POWER9™ processor-based technology and supports Linux operating systems (OSs). The objective of this paper is to introduce the system offerings and their capacities and available features. The Power IC922 server is built to deliver powerful computing, scaling efficiency, and storage capacity in a cost-optimized design

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to meet the evolving data challenges of the artificial intelligence (AI) era. It includes the following features: High throughput and performance for high-value Linux workloads, such as inferencing data or storage-rich workloads, or cloud. Potentially low acquisition cost through system optimization, such as using industry standard memory and warranty. Two IBM POWER9 processor-based single-chip module (SCM) devices that provide high performance with 24, 32, or 40 fully activated cores and a maximum 2 TB of memory. Up to six NVIDIA T4 graphics processing unit (GPU) accelerators. Up to

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twenty-four 2.5-inch SAS/SATA drives. One dedicated and one shared 1 Gb Intelligent Platform Management Interface (IPMI) port.. This publication is for professionals who want to acquire a better understanding of IBM Power Systems products. The intended audience includes: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power IC922 server.

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This IBM® Redbooks® Product Guide publication describes the IBM FlashSystem® 9200 solution, which is a comprehensive, all-flash, and NVMe-enabled enterprise storage solution that delivers the full capabilities of IBM FlashCore® technology. In addition, it provides a rich set of software-defined storage (SDS) features, including data reduction and de-duplication, dynamic tiering, thin-provisioning, snapshots, cloning, replication, data copy services, and IBM HyperSwap® for high availability (HA). Scale-out and scale-up configurations further enhance capacity and throughput for better

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PC Mag

IBM SAN Volume Controller
Stretched Cluster with PowerVM
and PowerHA

Relationships Made Simple

IBM Tape Library Guide for Open
Systems

Implementing the IBM Storwize
V7000 Gen2

Updated March 2019 - See
Appendix B: IBM FlashSystem
V9000 FlashCore Forever The
success or failure of
businesses often depends on
how well organizations use
their data assets for
competitive advantage. Deeper
insights from data require

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better information technology.

As organizations modernize their IT infrastructure to boost innovation rather than limit it, they need a data storage system that can keep pace with several areas that affect your business: Highly virtualized environments Cloud computing Mobile and social systems of engagement In-depth, real-time analytics Making the correct decision on storage investment is critical. Organizations must have enough storage performance and agility to innovate when they need to implement cloud-based IT services, deploy

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virtual desktop infrastructure, enhance fraud detection, and use new analytics capabilities. At the same time, future storage investments must lower IT infrastructure costs while helping organizations to derive the greatest possible value from their data assets. The IBM® FlashSystem V9000 is the premier, fully integrated, Tier 1, all-flash offering from IBM. It has changed the economics of today's data center by eliminating storage bottlenecks. Its software-defined storage features simplify data management, improve data security, and

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preserve your investments in storage. The IBM FlashSystem® V9000 SAS expansion enclosures provide new tiering options with read-intensive SSDs or nearline SAS HDDs. IBM FlashSystem V9000 includes IBM FlashCore® technology and advanced software-defined storage available in one solution in a compact 6U form factor. IBM FlashSystem V9000 improves business application availability. It delivers greater resource utilization so you can get the most from your storage resources, and achieve a

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simpler, more scalable, and cost-efficient IT Infrastructure.

This IBM Redbooks®

publication provides

information about IBM

FlashSystem V9000 Software

V8.1. It describes the core

product architecture, software,

hardware, and implementation,

and provides hints and tips.

The underlying basic hardware

and software architecture and

features of the IBM

FlashSystem V9000 AC3

control enclosure and on IBM

Spectrum Virtualize 8.1

software are described in

these publications:

Implementing IBM

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FlashSystem 900 Model AE3,
SG24-8414 Implementing the
IBM System Storage SAN
Volume Controller V7.4,
SG24-7933 Using IBM
FlashSystem V9000 software
functions, management tools,
and interoperability combines
the performance of IBM
FlashSystem architecture with
the advanced functions of
software-defined storage to
deliver performance,
efficiency, and functions that
meet the needs of enterprise
workloads that demand IBM
MicroLatency® response time.
This book offers IBM
FlashSystem V9000 scalability

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concepts and guidelines for planning, installing, and configuring, which can help environments scale up and out to add more flash capacity and expand virtualized systems. Port utilization methodologies are provided to help you maximize the full potential of IBM FlashSystem V9000 performance and low latency in your scalable environment. This book is intended for pre-sales and post-sales technical support professionals, storage administrators, and anyone who wants to understand how to implement this exciting technology.

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Get a head start evaluating Windows Server 2016—guided by the experts. Based on Technical Preview 4, John McCabe and the Windows Server team introduce the new features and capabilities, with practical insights on how Windows Server 2016 can meet the needs of your business. Get the early, high-level overview you need to begin preparing your deployment now!

Can the Librarian help three students trapped in the Puzzler's maze-like park full of dangerous riddles and twisted storybook creatures?

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Organizations of all sizes are faced with the challenge of managing massive volumes of increasingly valuable data. However, storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources, but must stay responsive to dynamic environments and act quickly to consolidate, simplify, and optimize their IT infrastructures. The IBM® Storwize® V3700 system provides a solution that is affordable, easy to use, and self-optimizing, which enables

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organizations to overcome these storage challenges. Storwize V3700 delivers efficient, entry-level configurations that are specifically designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, Storwize V3700 offers advanced software capabilities that are usually found in more expensive systems. Built on innovative IBM technology, Storwize V3700 addresses the block storage requirements of small and midsize

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organizations, Storwize V3700 is designed to accommodate the most common storage network technologies. This design enables easy implementation and management. Storwize V3700 includes the following features: Web-based GUI provides point-and-click management capabilities. Internal disk storage virtualization enables rapid, flexible provisioning and simple configuration changes. Thin provisioning enables applications to grow dynamically, but only use space they actually need.

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Enables simple data migration from external storage to Storwize V3700 storage (one-way from another storage device). Remote Mirror creates copies of data at remote locations for disaster recovery. IBM FlashCopy® creates instant application copies for backup or application testing. This IBM Redbooks® publication is intended for pre-sales and post-sales technical support professionals and storage administrators. The concepts in this book also relate to the IBM Storwize V3500. This book was written at a software level

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of version 7 release 4.

Principles of SAN Design

SAN and Fabric Resiliency

Best Practices for IBM b-type
Products

IBM FlashSystem Best

Practices and Performance
Guidelines

Fibre Channel Storage Area
Networks

HPE ATP - Hybrid IT Solutions
V2

*A comparative analysis of
Ethernet, TCP/IP, and Fibre
Channel in the context of SCSI
Introduces network*

*administrators to the
requirements of storage
protocols Explains the operation
of network protocols to storage*

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administrators Compares and contrasts the functionality of Ethernet, TCP/IP, and Fibre Channel Documents the details of the major protocol suites, explains how they operate, and identifies common misunderstandings References the original standards and specifications so you can get a complete understanding of each protocol Helps you understand the implications of network design choices Discusses advanced network functionality such as QoS, security, management, and protocol analysis Corporations increasingly depend on computer and communication technologies to remain competitive in the global economy. Customer

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relationship management, enterprise resource planning, and e-mail are a few of the many applications that generate new data every day. Effectively storing, managing, and accessing that data is a primary business challenge in the information age. Storage networking is a crucial component of the solution to meet that challenge. Written for both storage administrators who need to learn more about networking and network administrators who need to learn more about storage, Storage Networking Protocol Fundamentals is a concise introduction to storage networking protocols. The book picks up where Storage Networking Fundamentals left off

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by focusing on the networking protocols that underlie modern open systems: block-oriented storage networks. The first part of the book introduces you to the field of storage networking and the Open Systems Interconnection (OSI) reference model. The second part compares networked storage technologies, including iSCSI (Small Computer Systems Interface over IP) and Fibre Channel. It also examines in detail each of the major protocol suites layer-by-layer within the OSI reference model. The third part discusses advanced functionalities of these technologies, such as quality of service (QoS), load-balancing functions, security, management, and protocol analysis. You can

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read this book cover to cover or use it as a reference, directly accessing the particular topics of interest to you. "Storage networking is a critical concept for today's businesses, and this book provides a unique and helpful way to better understand it. Storage networking is also continuously evolving, and as such this book may be seen as an introduction to the information technology infrastructures of the future." —from the foreword by Claudio DeSanti, vice-chairman of the ANSI INCITS T11 Technical Committee
This IBM® Redbooks® publication describes several of the preferred practices and describes the performance gains that can be achieved by

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implementing the IBM SAN Volume Controller powered by IBM Spectrum® Virtualize V8.4. These practices are based on field experience. This book highlights configuration guidelines and preferred practices for the storage area network (SAN) topology, clustered system, back-end storage, storage pools, and managed disks, volumes, Remote Copy services, and hosts. Then, it provides performance guidelines for IBM SAN Volume Controller, back-end storage, and applications. It explains how you can optimize disk performance with the IBM System Storage Easy Tier® function. It also provides preferred practices for monitoring, maintaining, and

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troubleshooting IBM SAN

Volume Controller. This book is intended for experienced storage, SAN, and IBM SAN Volume Controller administrators and technicians. Understanding this book requires advanced knowledge of the IBM SAN Volume Controller, IBM FlashSystem, and SAN environments.

This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z15™ (machine types 8561 and 8562) systems. The z15 systems offers new functions that require a comprehensive understanding of the available configuration options. This book presents configuration setup scenarios, and describes implementation

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examples in detail. This publication is intended for systems engineers, hardware planners, and anyone who needs to understand IBM Z® configuration and implementation. Readers should be familiar with IBM Z technology and terminology. For more information about the functions of the z15 systems, see IBM z15 Technical Introduction, SG24-8850, IBM z15 (8561) Technical Guide, SG24-8851 and IBM z15 (8562) Technical Guide, SG24-8852.

This IBM® Redpaper® publication describes best practices for deploying and using advanced Broadcom Fabric Operating System (FOS) features to identify, monitor, and protect

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Fibre Channel (FC) SANs from problematic devices and media behavior. Note that this paper primarily focuses on the FOS command options and features that are available since version 8.2 with some coverage of new features that were introduced in 9.0. This paper covers the following recent changes:

*SANnav Fabric Performance
Impact Notification*

*IBM System Storage DS8000
Performance Monitoring and
Tuning*

*Implementing IBM FlashSystem
900*

*Implementing the IBM Storwize
Introduction to Storage Area
Networks*

*IBM Storage Networking
SAN512B-6 and SAN256B-6*

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PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

This IBM® Redbooks® publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem products. These practices are based on field experience. This book

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highlights configuration guidelines and preferred practices for the storage area network (SAN) topology, clustered system, back-end storage, storage pools and managed disks, volumes, remote copy services, and hosts. It explains how you can optimize disk performance with the IBM System Storage® Easy Tier® function. It also provides preferred practices for monitoring, maintaining, and troubleshooting. This book is intended for experienced storage, SAN, IBM FlashSystem, SAN Volume Controller (SVC), and IBM Storwize® administrators and technicians. Understanding

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this book requires advanced knowledge of these environments.

The amount of data being generated, processed, and stored has reached unprecedented levels. Even during the recent economic crisis, there has been no slow down or information recession. Instead, the need to process, move, and store data has only increased.

Consequently, IT organizations are looking to do more with what they have while supporting gr

In this IBM® Redbooks® publication, we describe recommendations based on an IBM b-type storage area network (SAN) environment

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that is utilizing VMware vSphere ESXi. We describe the hardware and software and the unique features that they bring to the marketplace. We then highlight those features and how they apply to the SAN environment, and the best practices for ensuring that you get the best out of your SAN. For background reading, we recommend the following Redbooks publications: - Introduction to Storage Area Networks and System Networking, SG24-5470 - IBM System Storage SAN Volume Controller Best Practices and Performance Guidelines, SG24-7521 - IBM System Storage SAN Volume

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Controller and Storwize
V7000 Replication Family
Services, SG24-7574 -
Implementing the IBM System
Storage SAN Volume
Controller V6.3, SG24-7933 -
IBM SAN Volume Controller
Stretched Cluster with
PowerVM and PowerHA,
SG24-8142 - Implementing the
IBM SAN Volume Controller
and FlashSystem 820,
SG24-8172 - IBM System
Storage DS8000 Copy Services
for Open Systems, SG24-6788
- IBM System Storage DS8000:
Host Attachment and
Interoperability, SG24-8887
This book is aimed at pre-
and post-sales support,
system administrators, and
storage administrators.

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System z End-to-End Extended
Distance Guide

Transforming Enterprise
Computing While Cutting
Costs

Cloud and Virtual Data

Storage Networking

IBM z14 Model ZR1 Technical
Introduction

A Guide to iSCSI, iFCP, and
FCIP Protocols for Storage
Area Networks

Lenovo System x® and
BladeCenter® servers and
Lenovo Flex System™ compute
nodes help to deliver a dynamic
infrastructure that provides
leadership quality and service
that you can trust. This document
(simply known as xREF) is a
quick reference guide to the
specifications of the currently

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available models of each System x and BladeCenter server. Each page can be used in a stand-alone format and provides a dense and comprehensive summary of the features of that particular server model. Links to the related Product Guide are also provided for more information. An easy-to-remember link you can use to share this guide:

<http://lenovopress.com/xref> Also available is xREF for Products Withdrawn Prior to 2012, a document that contains xREF sheets of System x, BladeCenter, and xSeries servers, and IntelliStation workstations that were withdrawn from marketing prior to 2012. Changes in the May 18 update: Added the Flex System Carrier-Grade Chassis

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See the Summary of changes in the document for a complete change history.

To meet today's complex and ever-changing business demands, you need a solid foundation of compute, storage, networking, and software resources. This system must be simple to deploy and be able to quickly and automatically adapt to changing conditions. You also need to be able to take advantage of broad expertise and proven guidelines in systems management, applications, industry solutions, and more. IBM® PureFlex® System combines no-compromise system designs along with built-in expertise and integrates them into complete, optimized scalable solutions. With IBM Flex

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System® Manager, multiple solution components that include compute nodes, network and storage infrastructures, storage systems, and heterogeneous virtualization environments can be managed from a single panel. This IBM Redbooks® publication introduces IBM PureFlex System and IBM Flex System and their management devices and appliances. It provides implementation guidelines for managing Linux kernel-based virtual machine (KVM), IBM PowerVM®, VMware vSphere, and Microsoft Hyper-V virtualization environments. This book is intended for the IT community of clients, IBM Business Partners, and IBM employees who are interested in

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planning and implementing systems management of the IBM PureFlex System.

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and

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complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations for dynamic infrastructure management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts

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of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts

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IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world. Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 16th edition

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introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries, It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products,

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you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

IP SANs

The Puzzler's Riddles

IBM Flex System V7000 Storage

Node Introduction and

Implementation Guide

IBM Flex System Products and

Technology for Power Systems