

IBM XIV Storage System

Host Attachment and Interoperability

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**Bertrand Dufrasne, In Kyu
Park, Francesco Perillo, Hank
Sautter, Stephen Solewin, Anthony
Vattathil, IBM Redbooks**

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IBM XIV Storage System: Host Attachment and Interoperability Bertrand Dufrasne, Bruce Allworth, Desire Brival, Mark Kremkus, Markus Oscheka, Thomas Peralto, IBM Redbooks, 2014-06-18 This IBM Redbooks publication provides information for attaching the IBM XIV Storage System to various host operating system platforms including IBM i The book provides information and references for combining the XIV Storage System with other storage platforms host servers or gateways including IBM N Series and IBM ProtecTIER It is intended for administrators and architects of enterprise storage systems The book also addresses using the XIV storage with databases and other storage oriented application software that include IBM DB2 VMware ESX Microsoft HyperV SAP The goal is to give an overview of the versatility and compatibility of the XIV Storage System with various platforms and environments The information that is presented here is not meant as a replacement or substitute for the Host Attachment kit publications It is meant as a complement and to provide readers with usage guidance and practical illustrations [IBM XIV Storage System](#) IBM Redbooks, 2012-04-06 [XIV Storage System](#) Bertrand Dufrasne, 2011

IBM FlashSystem A9000, IBM FlashSystem A9000R, and IBM XIV Storage System: Host Attachment and Interoperability Bertrand Dufrasne, Bert Dufrasne, Roger Eriksson, Detlef Helmbrecht, Petar Kalachev, Bruce Spell, IBM Redbooks, 2019-09-24 This IBM Redbooks publication provides information for attaching the IBM FlashSystem A9000 IBM FlashSystem A9000R and IBM XIV Storage System to various host operating system platforms such as IBM AIX and Microsoft Windows This publication was last updated in May 2019 to cover the VLAN tagging and port trunking support available with software version 12.3.2 see in particular section 2.4 VLAN tagging on page 67 The goal is to give an overview of the versatility and compatibility of the IBM Spectrum™ Accelerate family of storage systems with various platforms and environments The information that is presented here is not meant as a replacement or substitute for the IBM Storage Host Attachment Kit publications or other product publications It is meant as a complement and to provide usage guidance and practical illustrations This publication does not address attachments to a secondary system used for Remote Mirroring or data migration These topics are covered in IBM FlashSystem A9000 and IBM FlashSystem A9000 and A9000R Business Continuity Solutions REDP 5401 [IBM XIV Storage System Architecture and Implementation](#) Bertrand Dufrasne, Roger Eriksson, Lisa Martinez, Wenzel Kalabza s, IBM Redbooks, 2017-11-03 Not a new version included warning for self signed X509 certificates see section 5.2 This IBM Redbooks publication describes the concepts architecture and implementation of the IBM XIV Storage System The XIV Storage System is a scalable enterprise storage system that is based on a grid array of hardware components It can attach to both Fibre Channel Protocol FCP and IP network Small Computer System Interface iSCSI capable hosts This system is a good fit for clients who want to be able to grow capacity without managing multiple tiers of storage The XIV Storage System is suited for mixed or random access workloads including online transaction processing video streamings images email and emerging workload areas such as Web 2.0 and cloud storage The

focus of this edition is on the XIV Gen3 running Version 11.5.x of the XIV system software which brings enhanced value for the XIV Storage System in cloud environments. It offers multitenancy support, VMware vCloud Suite integration, more discrete performance classes, and RESTful API enhancements that expand cloud automation integration. Version 11.5 introduces support for three-site mirroring to provide high availability and disaster recovery. It also enables capacity planning through the Hyper Scale Manager, mobile push notifications for real-time alerts, and enhanced security. Version 11.5.1 supports 6TB drives and VMware vSphere Virtual Volumes (VVOL). In the first few chapters of this book, we describe many of the unique and powerful concepts that form the basis of the XIV Storage System logical and physical architecture. We explain how the system eliminates direct dependencies between the hardware elements and the software that governs the system. In subsequent chapters, we explain the planning and preparation tasks that are required to deploy the system in your environment by using the intuitive yet powerful XIV Storage Manager GUI or the XIV command-line interface. We also describe the performance characteristics of the XIV Storage System and present options for alerting and monitoring, including enhanced secure remote support. This book is for IT professionals who want an understanding of the XIV Storage System. It is also for readers who need detailed advice on how to configure and use the system.

IBM XIV Storage System: IBM Hyper-Scale Mobility

Overview and Usage Bertrand Dufrasne, Christian Burns, Guenter Rebmann, Hank Sautter, Jim Sedgwick, IBM Redbooks, 2013-06-24. IBM Hyper Scale introduces two major new technologies both implemented in the IBM XIV Storage System Gen3 models. The first is IBM Hyper Scale Manager, a flexible consolidated multi-system management application that was originally released in October 2012 as Multi System Manager. IBM Hyper Scale Manager is based on and seamlessly integrated with the XIV GUI and spans multiple XIV systems. The second new technology, IBM Hyper Scale Mobility, is the topic of this publication. It is a powerful function for moving volumes between storage containers transparently with no disruption to host applications. IBM Hyper Scale helps you easily overcome provisioning scenarios that normally challenge traditional systems. IBM Hyper Scale can accommodate several critical customer scenarios for data mobility: load balancing, over-provisioning, and storage system repurposing. This IBM Redpaper™ publication provides a broad understanding of the IBM Hyper Scale Mobility feature. The paper describes the IBM Hyper Scale architecture and includes detailed step-by-step scenarios that illustrate the online volume migration process both from the XIV GUI and the XIV Command Line Interface (XCLI). This publication is intended for XIV customers and users who want a practical understanding of IBM Hyper Scale Mobility concepts and usage.

Solid-State Drive Caching in the IBM XIV Storage System Bertrand Dufrasne, In Kyu Park, Francesco Perillo, Hank Sautter, Stephen Solewin, Anthony Vattathil, IBM Redbooks, 2012-05-10. This IBM Redpaper™ publication provides information about the implementation and use of solid-state drives (SSDs) in IBM XIV Storage System XIV Generation 3 (Gen3) running XIV software version 11.1.0 or later. In the XIV system, SSDs are used to increase the read-cache capacity of the existing DRAM memory cache and are not used for persistent storage. This paper begins with a high-level

overview of the SSD implementation in XIV and a brief review of the SSD technology with focus on the XIV system It explains the SSD Caching design and implementation in XIV Then it examines typical workloads that can benefit from the SSD Caching extension and introduces the tools and utilities to help you analyze and understand the workload In particular it highlights the block tracing facility that was designed and developed by IBM Research Then this paper explains the process that authorized IBM services representatives use to install SSD Caching It reviews the changes made to the XIV GUI and the XCLI to support SSD Caching Finally this paper provides a listing of the new alert generating events and monitoring options that are provided for SSD support This paper is intended for users who want an insight into the XIV SSD Caching implementation and architecture its capabilities and usage For more information about the IBM XIV Storage System see the IBM Redbooks publication IBM XIV Storage System Architecture Implementation and Usage SG24 7659 **IBM**

Hyper-Scale in XIV Storage Bertrand Dufrasne,Christian Burns,Wenzel Kalabza,Sandor Lengyel,Patrick Schill,Christian Schoessler,IBM Redbooks,2014-11-24 Organizations are struggling with an unprecedented surge in data both user created and machine created With an increasing reliance on this rapidly growing data effective scaling of data storage represents a key challenge for all enterprises IBM Hyper Scale helps you easily overcome provisioning scenarios that normally challenge traditional systems IBM Hyper Scale can accommodate several critical client scenarios for centralized administration data mobility load balancing over provisioning and storage system repurposing IBM Hyper Scale introduces the following major concepts and technologies with the IBM XIV Storage System Gen3 models IBM Hyper Scale Manager is a flexible consolidated multi system management application that builds upon the originally released Multi System Manager with XIV Storage Software V11 2 IBM Hyper Scale Manager is based on and seamlessly integrated with the XIV graphical user interface GUI and spans multiple XIV systems It virtually transforms multiple systems into a single system allowing customers to centrally manage up to 144 XIV systems IBM Hyper Scale Mobility was released with XIV Storage System V11 3 It is a powerful function for moving volumes between storage containers transparently with no disruption to host applications IBM Hyper Scale Consistency was released with the IBM XIV Storage Software Version 11 4 It offers cross system consistency enabling coordinated snapshots across independent XIV systems It helps to ensure data protection across multiple XIV systems This IBM Redpaper™ publication provides a broad understanding of the IBM Hyper Scale feature This publication is intended for XIV clients and users who want a practical understanding of IBM Hyper Scale concepts and usage For information about the IBM Hyper Scale concepts refer to the IBM white paper IBM Hyper Scale and Its Implementation in XIV Storage A powerful new approach to scaling storage management **Using the IBM Spectrum Accelerate Family in VMware Environments: IBM XIV, IBM FlashSystem A9000 and IBM FlashSystem A9000R, and IBM Spectrum Accelerate** Markus Oscheka,Bert Dufrasne,Grant Kabobel,Abilio Oliveira,IBM Redbooks,2019-02-04 This IBM Redpaper™ publication is a brief overview of synergistic aspects between various VMware offerings and the IBM Spectrum™ Accelerate

family including IBM XIV and IBM FlashSystem A9000 and IBM FlashSystem A9000R servers After reviewing different integration concepts and explaining general implementation aspects for attaching the IBM Spectrum Accelerate™ family to VMware ESXi deployments the paper focuses on components that are enabled by IBM Spectrum Connect v3.4 This paper is intended for planning to use or implementing the IBM Spectrum Accelerate family of storage systems in a VMware environment

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 Spectrum™ 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 XIV Storage System Business Continuity Functions Bertrand Dufrasne, Christian Burns, Wenzel Kalabza, Sandor Lengyel, Patrick Schill, Christian Schoessler, IBM Redbooks, 2018-08-07 The IBM XIV Storage System has a rich set of copy functions suited for various data protection scenarios that enable you to enhance your business continuance disaster recovery data migration and online backup solutions These functions allow point in time copies known as snapshots and full volume copies and also include remote copy capabilities in either synchronous or asynchronous mode A three site mirroring function is now available to further improve availability and disaster recovery capabilities These functions are included in the XIV software and all their features are available at no extra charge The various copy functions are reviewed in separate chapters which include detailed information about usage and practical illustrations The book also illustrates the use of IBM Tivoli Storage Productivity Center for Replication to manage XIV Copy Services This IBM Redbooks publication is intended for anyone who needs a detailed and practical understanding of the XIV copy functions

XIV Storage System Product Guide Bert Dufrasne, Dietmar Dausner, Nancy Kinney, Christopher Moore, Markus Oscheka, Eric Zhang, IBM Redbooks, 2016-01-05 The IBM XIV Storage System is a high end flash optimized fully scalable enterprise disk storage system that is based on a grid of standard hardware components The architecture of the system is designed to deliver out of the box performance and ease of management while harnessing the high capacity and cost benefits of serial attached SCSI SAS drives The XIV Gen3 systems and the Model 314 in particular offer powerful real time compression that is based on the IBM Random Access Compression Engine RACE technology This IBM Redbooks Product Guide offers a brief

overview of the IBM XIV Gen3 Storage System hardware and software features *SAN Boot Implementation and Best Practices Guide for IBM System Storage* Sangam Racherla, Delmar Demarchi, Scott Dybas, Bobby Stark, Mansoor Syed, IBM Redbooks, 2012-09-30 Booting servers from a storage area network SAN is being used increasingly in complex data center environments today due to its significant benefits over the traditional method of booting from local disks SAN Boot enables organizations to maximize consolidation of their IT resources minimize their equipment costs and realize the considerable management benefits of centralizing the boot process In SAN Boot you can deploy diskless servers in an environment where the boot disk is located on often RAID capable storage connected to the SAN The server initiator communicates with the storage device target through the SAN using the Fibre Channel host bus adapter HBA The system downtime is greatly minimized in case a critical component such as a processor memory or host bus adapter fails and needs to be replaced The system administrator needs to swap only the hardware and reconfigure the HBA s BIOS switch zoning and host port definitions on the storage server The system image still exists on the logical drive therefore the server is fully operational after the hardware swap and configuration change is completed This IBM Redbooks publication can help you with the SAN Boot implementation We present various SAN Boot scenarios using IBM System Storage products that include DS5000 DS8000 XIV and SVC The operating systems that are covered include Windows 2008 Red Hat Linux SUSE Linux and VMware

IBM XIV Storage System Thin Provisioning and Space Reclamation Bertrand Dufrasne, Christian Burns, Guenter Rebmann, Hank Sautter, Jim Sedgwick, IBM Redbooks, 2013-06-18 Thin provisioning is the practice of passing logical unit number LUN sizes up to application servers without actually reserving the total physical capacity of those LUNs for data storage Thin provisioning is a popular feature of IBM XIV Storage System Data space reclamation helps you enjoy the benefits of thin provisioning Space reclamation is a storage system function to reclaim a specific amount of disk space for general purpose use after being notified by the file system that the disk space was deleted at the host level Because XIV thin provisioning and support for space reclamation are so tightly related this IBM Redpaper™ publication explores both concepts in detail This publication is intended for system and storage administrators who want to take advantage of the XIV functionality in thin provisioned environments coupled with the latest space reclamation enhancements **Using XIV in OpenStack Environments** Bertrand Dufrasne, Roger Eriksson, Wenzel Kalabza, Lisa Martinez, IBM Redbooks, 2015-02-27 This IBM Redpaper™ publication provides a brief overview of OpenStack and IBM Cloud Manager with OpenStack It focuses on the use of OpenStack with the IBM XIV Storage System Gen3 The illustration scenario in the paper uses the OpenStack Icehouse release which is installed on RedHat Linux servers and the IBM Storage Driver for OpenStack This paper is intended for clients and cloud administrators who look forward to integrating IBM XIV Storage Systems in OpenStack and using IBM Cloud Manager with OpenStack environments The paper provides guidance in setting up an environment by using XIV as the back end storage in an OpenStack cloud environment This paper is not an official support document

Deploying IBM Spectrum Accelerate on Cloud Bert Dufrasne, Nancy Kinney, Donald Mathisen, Christopher Moore, Markus Oscheka, Ralf Wohlfarth, Eric Zhang, IBM Redbooks, 2015-12-15 This IBM Redpaper™ publication provides information about IBM Spectrum Accelerate™ on Cloud IBM Spectrum Accelerate on Cloud supplies a smart storage solution using servers on SoftLayer cloud It enables you to consume storage as a service without the need to install or maintain any hardware or software components IBM Spectrum Accelerate on Cloud enables users to replicate data in the cloud as an affordable disaster recovery DR solution The primary data can be either on IBM XIV Storage System devices or IBM Spectrum Accelerate on or off premises The initial deployment on SoftLayer is performed by engaging IBM Lab services This paper first describes the tasks performed by IBM Lab services explains the required customer preparation tasks followed by typical use case scenarios

IBM Hyper-Scale Manager for IBM Spectrum Accelerate Family: IBM XIV, IBM FlashSystem A9000 and A9000R, and IBM Spectrum Accelerate Bert Dufrasne, Lisa Martinez, IBM Redbooks, 2019-04-12 This IBM Redbooks publication describes storage management functions and their configuration and use with the IBM Hyper Scale Manager management graphical user interface GUI for IBM XIV Gen3 IBM FlashSystem A9000 and A9000R and IBM Spectrum™ Accelerate software The web based GUI provides a revolutionary object centered interface design that is aimed toward ease of use together with enhanced efficiency for storage administrators The first chapter describes general features of the GUI and installation of the IBM Hyper Scale Manager server Subsequent chapters illustrate some typical GUI actions among many other possibilities to manage and configure the storage systems to define security roles and to set up multitenancy For most of the GUI based actions that are illustrated in this book the corresponding XIV Storage System command line interface XCLI commands are also shown This edition applies to IBM Hyper Scale Manager V5.4 IBM Hyper Scale Manager based GUI information regarding host attachment and replication is covered in IBM FlashSystem A9000 IBM FlashSystem A9000R and IBM XIV Storage System Host Attachment and Interoperability SG24 8368 and IBM FlashSystem A9000 and A9000R Business Continuity Solutions REDP 5401 See also IBM HyperSwap and Multi site HA DR for IBM FlashSystem A9000 and A9000R REDP 5434

IBM Spectrum Accelerate Deployment, Usage, and Maintenance Bertrand Dufrasne, Markus Oscheka, Grant Kabobel, Abilio Oliveira, IBM Redbooks, 2017-07-19 This edition applies to IBM Spectrum Accelerate V11.5.4 IBM Spectrum Accelerate™ a member of IBM Spectrum Storage™ is an agile software defined storage solution for enterprise and cloud that builds on the customer proven and mature IBM XIV storage software The key characteristic of Spectrum Accelerate is that it can be easily deployed and run on purpose built or existing hardware that is chosen by the customer IBM Spectrum Accelerate enables rapid deployment of high performance and scalable block data storage infrastructure over commodity hardware on premises or off premises This IBM Redbooks publication provides a broad understanding of IBM Spectrum Accelerate The book introduces Spectrum Accelerate and describes planning and preparation that are essential for a successful deployment of the solution

The deployment is described through a step by step approach by using a graphical user interface GUI based method or a simple command line interface CLI based procedure Chapters in this book describe the logical configuration of the system host support and business continuity functions and migration Although it makes many references to the XIV storage software the book also emphasizes where IBM Spectrum Accelerate differs from XIV Finally a substantial portion of the book is dedicated to maintenance and troubleshooting to provide detailed guidance for the customer support personnel

IBM FlashSystem A9000 and A9000R Business Continuity Solutions Bert Dufrasne, Francesco Anderloni, Roger Eriksson, Lisa Martinez, IBM Redbooks, 2021-05-05 This edition applies to FlashSystem A9000 and A9000R Model 415 and 425 with system software Version 12.3 IBM FlashSystem A9000 and IBM FlashSystem A9000R provide copy functions suited for various data protection scenarios that enable you to enhance your business continuance disaster recovery data migration and backup solutions These functions allow point in time copies known as snapshots and also include remote copy capabilities in either synchronous or asynchronous mode Furthermore support for IBM Hyper Scale Mobility enables a seamless migration of IBM FlashSystem A9000 or A9000R volumes to another with no interference to the host Starting with software level V12.1 the IBM HyperSwap feature delivers always on high availability HA storage service for storage volumes in a production environment Starting with version 12.2 asynchronous replication between the IBM XIV Gen3 and FlashSystem A9000 or A9000R is supported Starting with Version 12.2.1 Hyper Scale Mobility is enabled between XIV Gen3 and FlashSystem A9000 or A9000R Version 12.3 offers Multi site replication solution that entails both High Availability HA and Disaster Recovery DR function by combining HyperSwap and Asynchronous replication to a third site This IBM Redpaper™ publication is intended for anyone who needs a detailed and practical understanding of the IBM FlashSystem A9000 and IBM FlashSystem A9000R replication and business continuity functions

IBM Software Defined Environment Dino Quintero, William M Genovese, KiWoon Kim, Ming Jun MJ Li, Fabio Martins, Ashish Nainwal, Dusan Smolej, Marcin Tabinowski, Ashu Tiwary, IBM Redbooks, 2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today's environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond

to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE

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Xiv Storage System Host Attachment And Interoperability Introduction

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