

# VIRTUAL SAP HANA® DISASTER RECOVERY ON VMWARE VSPHERE® USING EMC RECOVERPOINT

Proof of Concept for Business Continuance with Virtualization of SAP HANA on VCE Vblock™ and TDI over longer distances

## EMC Global Solutions Group

### Abstract

An international team of Deloitte, EMC, VMware, and Cisco functional and technical experts worked together to identify the challenges of SAP HANA Disaster Recovery over longer distances (greater than 500 km). Through this Proof of Concept, named Project RUBICON, this cross-functional, multi-company team explored the possibilities and results of performing HANA Disaster Recovery through the use of HANA on VMware and RecoverPoint.

June 2014

**Deloitte** · **EMC<sup>2</sup>**  **vmware**  **CISCO**

# Disaster Recovery For Windows Using Emc Recoverpoint

**Florian Rommel**



## **Disaster Recovery For Windows Using Emc Recoverpoint:**

**Solutions Architect's Handbook** Saurabh Shrivastava, Neelanjali Srivastava, 2020-03-21 From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud learn everything you need to become a successful solutions architect Key Features Create solutions and transform business requirements into technical architecture with this practical guide Understand various challenges that you might come across while refactoring or modernizing legacy applications Delve into security automation DevOps and validation of solution architecture Book Description Becoming a solutions architect gives you the flexibility to work with cutting edge technologies and define product strategies This handbook takes you through the essential concepts design principles and patterns architectural considerations and all the latest technology that you need to know to become a successful solutions architect This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises You ll learn what a cloud migration and application modernization framework looks like and will use microservices event driven cache based and serverless patterns to design robust architectures You ll then explore the main pillars of architecture design including performance scalability cost optimization security operational excellence and DevOps Additionally you ll also learn advanced concepts relating to big data machine learning and the Internet of Things IoT Finally you ll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect By the end of this book you ll have learned techniques to create an efficient architecture design that meets your business requirements What you will learn Explore the various roles of a solutions architect and their involvement in the enterprise landscape Approach big data processing machine learning and IoT from an architect s perspective and understand how they fit into modern architecture Discover different solution architecture patterns such as event driven and microservice patterns Find ways to keep yourself updated with new technologies and enhance your skills Modernize legacy applications with the help of cloud integration Get to grips with choosing an appropriate strategy to reduce cost Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders working in the information technology industry who aspire to become solutions architect professionals A good understanding of the software development process and general programming experience with any language will be useful [Implementing VxRail HCI Solutions](#) Victor Wu, 2021-06-04 Plan design deploy and administer the solutions available in VxRail Appliance Key Features Learn how to plan and design the VxRail HCI system Understand VxRail s administration lifecycle management and cluster scale out Explore migration methodologies for VxRail systems Book Description Hyper converged infrastructure HCI can help you simplify the provisioning and daily operations of computing and storage With this book you ll understand how HCI can offload the day 0 deployment and day to day operations of a system administrator You ll explore the VxRail Appliance which is an HCI solution

that provides lifecycle management automation and operational simplicity Starting with an overview of the VxRail Appliance system architecture and components you ll understand the benefits of the VxRail system and compare it with the environment of traditional servers and storage As you advance the book covers topics such as disaster recovery and active active and active passive solutions for VxRail By the end of this book you ll have gained the confidence to manage the deployment administration planning and design of a VxRail system What you will learnSet up the hardware and software requirements for a VxRail installationMonitor the status of VxRail appliances with the VxRail Manager pluginGet to grips with all the administration interfaces used to manage the VxRail applianceUnderstand vCenter roles and permissions management in the VxRail clusterDiscover best practices for vSAN configuration in the VxRail clusterFind out about VxRail cluster scale out rules and how to expand the VxRail clusterDeploy active passive solutions for VxRail with VMware Site Recovery Manager SRM Who this book is for If you are a system architect system administrator or consultant involved in planning and deploying VxRail HCI or want to learn how to use VxRail HCI then this book is for you Equivalent knowledge and administration experience with ESXi and vCenter Server will be helpful *Dell VxRail System Design and Best Practices* Victor Wu,2022-12-23 Design build and protect your clusters with ease with VxRail Dell s hyper converged infrastructure solution and this comprehensive in depth guide Key FeaturesCombine your virtualization systems into one with this comprehensive guide to VxRailProtect against data loss with a variety of backup replication and recovery optionsTake your virtualization skills to the next level thanks to Dell s hyper converged infrastructureBook Description Virtualized systems are well established now and their disparate components can be found bundled together in hyper converged infrastructures such as VxRail from Dell EMC Dell VxRail System Design and Best Practices will take you as a system architect or administrator through the process of designing and protecting VxRail systems While this book assumes a certain level of knowledge of VMware vSphere 7 x and vCenter Server you ll get a thorough overview of VxRail s components features and architecture as well as a breakdown of the benefits of this hyper converged system This guide will give you an in depth understanding of VxRail as well as plenty of practical examples and self assessment questions along the way to help you plan and design every core component of a VxRail system from vSAN storage policies to cluster expansion It s no good having a great system if you lose everything when it breaks so you ll spend some time examining advanced recovery options such as VMware Site Recovery Manager and Veeam Backup and Replication By the end of this book you will have got to grips with Dell s hyper converged VxRail offering taking your virtualization proficiency to the next level What you will learnDesign vSAN storage policiesScale out and expand clustersDesign stretched clustersProtect your system with VMware Site Recovery ManagerDiscover how to configure EMC RecoverPoint for Virtual MachinesIntegrate Veeam Backup and Replication with VxRailSet up a vSAN 2 node clusterWho this book is for This book is for system architects system administrators or consultants involved in planning and designing VxRail HCI The reader is expected to have equivalent knowledge and

administration experience with VMware vSphere 7 x and vCenter Server 7 x      **VCP-DCV for vSphere 8.x Cert Guide**  
John A. Davis, Steve Baca, 2023-12-13 This is the eBook version of the print title Note that the eBook does not provide access to the practice test software that accompanies the print book Learn prepare and practice for VCP DCV for vSphere 8 x Professional exam success with this Cert Guide from Pearson IT Certification a leader in IT Certification learning VCP DCV for vSphere 8 x Cert Guide from Pearson IT Certification helps you prepare to succeed on the VCP DCV for vSphere 8 x Professional exam by directly addressing the exam s objectives as stated by VMware Leading instructors and experts John Davis and Steve Baca share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes Complete coverage of the exam objectives and a test preparation routine designed to help you pass the exams Do I Know This Already quizzes which allow you to decide how much time you need to spend on each section Chapter ending Key Topic tables which help you drill on key concepts you must know thoroughly The powerful Pearson Test Prep Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports An online interactive Flash Cards application to help you drill on Key Terms by chapter A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail study plans assessment features and challenging review questions and exercises this study guide helps you master the concepts and techniques that ensure your exam success This study guide helps you master all the topics on the VMware vSphere 8 x Professional exam including Describing vSphere architecture requirements and features Implementing configuring and managing vSphere storage Configuring secured access and networking in a vSphere environment Monitoring managing and optimizing the services and resources in a vSphere environment Provisioning migrating and supporting virtual machines in a vSphere environment      **Mastering Microsoft Exchange Server 2007** Barry Gerber, 1996      *Dataquest* ,2005      *The Advertising Red Books* ,2008-07  
Disaster Planning and Recovery Pack TechRepublic, Incorporated, 2004      *Active Directory Disaster Recovery* Florian Rommel, 2008-06-24 Expert guidance on planning and implementing Active Directory disaster recovery plans with this book and eBook      *The Definitive Guide to Exchange Disaster Recovery and Availability* Realtimepublishers.com, 2005      *High Availability and Disaster Recovery* Klaus Schmidt, 2006-09-02 Companies and other organizations depend more than ever on the availability of their Information Technology and most mission critical business processes are IT based processes Business continuity is the ability to do business under any circumstances and is an essential requirement modern companies are facing High availability and disaster recovery are contributions of the IT to fulfill this requirement And companies will be confronted with such demands to an even greater extent in the future since their credit ratings will be lower without such precautions Both high availability and disaster recovery are realized by redundant systems Redundancy can and should be implemented

on different abstraction levels from the hardware the operating system and middleware components up to the backup computing center in case of a disaster This book presents requirements concepts and realizations of redundant systems on all abstraction levels and all given examples refer to UNIX and Linux systems *Implementing Backup and Recovery* David B Little,2003-08-05 Offers the first comprehensive reference on the topic of backup systems for both UNIX and Windows NT Provides a complete tutorial on the general topic of data backup systems along with a detailed step by step guide for planning and full implementation of backup systems Authors include personal tips and strategic and tactical advice gained from many company implementations Uses VERITAS NetBackup product to illustrate backup system functions **Windows Server 2012 R2: Implement Business Continuity and Disaster Recovery** ,2016 Make sure your systems are ready when disaster strikes Learn how to implement business continuity and disaster recovery using Windows Server 2012 R2

Windows Server 2012 R2: Implement Business Continuity and Disaster Recovery ,2016 Business like life doesn't always go as planned When disaster strikes it's important to have a plan to get operations back online and start salvaging systems and data Windows administrators are a key part of the recovery This course shows you how to plan and implement a business continuity and disaster recovery strategy which includes data protection and failover using Windows Server 2012 R2 Ed Liberman teaches how to implement Windows Server 2012 R2 backup and recovery configure network load balancing NLB for high availability of TCP/IP services maintain a failover cluster and implement Hyper-V failover clustering for virtual machines Note This course also maps to the Implement Business Continuity and Disaster Recovery domain for MCSA Exam 70-412 Configuring Advanced Windows Server 2012 Services **Disaster Proofing Information Systems** Robert W. Buchanan,2002-12-17 In the wake of 9/11 companies from a broad array of industries have demanded that their IT divisions create strategies to maintain network availability and business continuity in event of disaster This timely resource written by a noted business continuity and recovery expert pinpoints a host of practical initiatives to help businesses do exactly that and maintain system performance within budget Evaluate which commercial strategies tools and products are worth buying Learn to extend plans for protecting the company's network to vital business units **Business Resumption Planning** Edward S. Devlin,Cole Emerson,Leo A. Wrobel,1997-12-24 Without a disaster recovery plan there's no second chance This is a low cost turnkey tool to prepare your company for emergencies Easy to follow and concise Business Resumption Planning is the most up to date reference source with answers to the most frequently asked questions about data center recovery communications recovery general business operations recovery and more You'll learn how to Identify and document critical business processes Determine resource requirements and organize recovery teams Establish document and test recovery policies and procedures Protect and recover data center voice and data communications equipment and business operations Conduct a Technical Vulnerability Analysis of the physical environment Perform a Business Impact Analysis Included with your volume are complete forms and checklists on a CD-ROM to help organize and custom tailor your own contingency and

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part of a disaster recovery plan by themselves backups should not alone be considered disaster recovery One reason for this is that not all backup

**Windows Server 2012 R2: Implement 476536564 Continuity and Disaster Recovery** Ed Liberman,2016 476536564 like life doesn t always go as planned When disaster strikes it s important to have a plan to get operations back online and start salvaging systems and data Windows administrators are a key part of the recovery This course shows you how to plan and implement a 476536564 continuity and disaster recovery strategy which includes data protection and failover using Windows Server 2012 R2 Ed Liberman teaches how to implement Windows Server 2012 R2 backup and recovery configure network load balancing NLB for high availability of TCP IP services maintain a failover cluster and implement Hyper V failover clustering for virtual machines Note This course also maps to the Implement 476536564 Continuity and Disaster Recovery domain for MCSA Exam 70 412 Configuring Advanced Windows Server 2012 Services

[A Primer for Disaster Recovery Planning in an IT Environment](#) Charlotte J. Hiatt,2000-01-01 Annotation Hiatt California State University helps businesses evaluate their vulnerability to accidents and disasters and guides them through the process of creating a disaster recovery plan The second half of the book consists of 33 appendices with diagrams lists questionnaires procedures surveys contacts and case studies No index Annotation c Book News Inc Portland OR booknews com

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## **Table of Contents Disaster Recovery For Windows Using Emc Recoverpoint**

1. Understanding the eBook Disaster Recovery For Windows Using Emc Recoverpoint
  - The Rise of Digital Reading Disaster Recovery For Windows Using Emc Recoverpoint
  - Advantages of eBooks Over Traditional Books
2. Identifying Disaster Recovery For Windows Using Emc Recoverpoint
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Disaster Recovery For Windows Using Emc Recoverpoint
  - User-Friendly Interface
4. Exploring eBook Recommendations from Disaster Recovery For Windows Using Emc Recoverpoint
  - Personalized Recommendations
  - Disaster Recovery For Windows Using Emc Recoverpoint User Reviews and Ratings
  - Disaster Recovery For Windows Using Emc Recoverpoint and Bestseller Lists
5. Accessing Disaster Recovery For Windows Using Emc Recoverpoint Free and Paid eBooks
  - Disaster Recovery For Windows Using Emc Recoverpoint Public Domain eBooks
  - Disaster Recovery For Windows Using Emc Recoverpoint eBook Subscription Services
  - Disaster Recovery For Windows Using Emc Recoverpoint Budget-Friendly Options

6. Navigating Disaster Recovery For Windows Using Emc Recoverpoint eBook Formats
  - ePub, PDF, MOBI, and More
  - Disaster Recovery For Windows Using Emc Recoverpoint Compatibility with Devices
  - Disaster Recovery For Windows Using Emc Recoverpoint Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Disaster Recovery For Windows Using Emc Recoverpoint
  - Highlighting and Note-Taking Disaster Recovery For Windows Using Emc Recoverpoint
  - Interactive Elements Disaster Recovery For Windows Using Emc Recoverpoint
8. Staying Engaged with Disaster Recovery For Windows Using Emc Recoverpoint
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Disaster Recovery For Windows Using Emc Recoverpoint
9. Balancing eBooks and Physical Books Disaster Recovery For Windows Using Emc Recoverpoint
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Disaster Recovery For Windows Using Emc Recoverpoint
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Disaster Recovery For Windows Using Emc Recoverpoint
  - Setting Reading Goals Disaster Recovery For Windows Using Emc Recoverpoint
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Disaster Recovery For Windows Using Emc Recoverpoint
  - Fact-Checking eBook Content of Disaster Recovery For Windows Using Emc Recoverpoint
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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