

# **Data Backup**

**Dino Quintero,Umamaheswara Rao Chandolu,Aruna Sree,Kevin Gee,Sandhya Kurapati,Vijay Yalamuri,IBM Redbooks**

*Pro Data Backup and Recovery* Steven Nelson, 2011-07-18 Good backup and recovery strategies are key to the health of any organization. Medium- to very-large-scale systems administrators have to protect large amounts of critical data as well as design backup solutions that are scalable and optimized to meet changing conditions. *Pro Data Backup and Recovery* will cover some of the more common backup applications, such as Symantec NetBackup/BackupExec, EMC NetWorker, and CommVault, but the main discussion will focus on the implementation of 21st century architectures that allow the backup software to be a “commodity” item. The underlying architecture provides the framework for meeting the requirements of data protection for the organization. This book covers new developments in data protection as well as the impact of single-instance storage upon backup infrastructures. It discusses the impact of backup and data replication, the often misapplied B2D and D2D strategies, and “tapeless” backup environments. Continuous data protection and remote replication strategies are also addressed as they are integrated within backup strategies—a very important topic today. Learn backup solution design regardless of specific backup software Design realistic recovery solutions Take into account new data protection standards and the impact of data replication Whether you are using NetBackup, CommVault, or some other backup software, *Pro Data Backup and Recovery* will give you the information you need to keep your data safe and available.

*Backup & Recovery* W. Curtis Preston, 2007-01-03 Packed with practical, affordable backup and recovery solutions for UNIX, Linux, Windows, and the Mac OS X system—as well as various databases—this new guide is a complete overhaul of the author's strong-selling UNIX Backup & Recovery, now revised and expanded with over 40 percent new material.

**Pro Data Backup and Recovery** Steven Nelson, 2011-02-25 Good backup and recovery strategies are key to the health of any organization. Medium- to very-large-scale systems administrators have to protect large amounts of critical data as well as design backup solutions that are scalable and optimized to meet changing conditions. *Pro Data Backup and Recovery* will cover some of the more common backup applications, such as Symantec NetBackup/BackupExec, EMC NetWorker, and CommVault, but the main discussion will focus on the implementation of 21st century architectures that allow the backup software to be a “commodity” item. The underlying architecture provides the framework for meeting the requirements of data protection for the organization. This book covers new developments in data protection as well as the impact of single-instance storage upon backup infrastructures. It discusses the impact of backup and data replication, the often misapplied B2D and D2D strategies, and “tapeless” backup environments. Continuous data protection and remote replication strategies are also addressed as they are integrated within backup strategies—a very important topic today. Learn backup solution design regardless of specific backup software Design realistic recovery solutions Take into account new data protection standards and the impact of data replication Whether you are using NetBackup, CommVault, or some other backup software, *Pro Data Backup and Recovery* will give you the information you need to keep your data safe and available.

**The Backup Book** Dorian J. Cougias, E. L. Heiberger, Karsten Koop, 2003 Detailing what can go wrong in backup and recovery and how that applies to the various backup methods available, this book couples that information with recovery and business continuity tactics played out over the backdrop of various real-world scenarios.

Unix Backup and Recovery W. Curtis Preston, 1999 Providing an overview of all facets of UNIX backup and recovery, this text offers practical solutions for environments of all sizes and budgets, explaining everything from freely-available backup systems to large-scale commercial utilities.

*Backup and Recovery* W. Curtis Preston, 2007-01-03 Packed with practical, freely available backup and recovery solutions for Unix, Linux, Windows, and Mac OS X systems -- as well as various databases -- this new guide is a complete overhaul of *Unix Backup & Recovery* by the same author, now revised and expanded with over 75% new material. Backup & Recovery starts with a complete overview of backup philosophy and design, including the basic backup utilities of tar, dump, cpio, ntbak, ditto, and rsync. It then explains several open source backup products that automate backups using those utilities, including AMANDA, Bacula, BackupPC, rdiff-backup, and rsnapshot. Backup & Recovery then explains how to perform bare metal recovery of AIX, HP-UX, Linux, Mac OS, Solaris, VMWare, & Windows systems using freely-available utilities. The book also provides overviews of the current state of the commercial backup software and hardware market, including overviews of CDP, Data De-duplication, D2D2T, and VTL technology. Finally, it covers how to automate the backups of DB2, Exchange, MySQL, Oracle, PostgreSQL, SQL-Server, and Sybase databases - without purchasing a commercial backup product to do so. For environments of all sizes and budgets, this unique book shows you how to ensure data protection without resorting to expensive commercial solutions. You will soon learn to: Automate the backup of popular databases without a commercial utility Perform bare metal recovery of any popular open systems platform, including your PC or laptop Utilize valuable but often unknown open source backup products Understand the state of commercial backup software, including explanations of CDP and data de-duplication software Access the current state of backup hardware, including Virtual Tape Libraries (VTLs)

*Cloud Backup Management with PowerHA SystemMirror* Dino Quintero, Umamaheswara Rao Chandolu, Aruna Sree, Kevin Gee, Sandhya Kurapati, Vijay Yalamuri, IBM Redbooks, 2021-09-14 This IBM® Redpaper chapter explains how to take a backup of your data by using either of two methods, and it explains how to recover your data if there is a disaster. This paper addresses topics for IT architects, IT specialists, developers, sellers, and anyone looking to implement and manage backups in the cloud. Moreover, this publication provides documentation to transfer the how-to-skills to the technical teams and solution guidance to the sales team. This book complements the documentation that is available at IBM Documentation and aligns with the educational materials that are provided by IBM Garage™ for Systems Technical Education.

**The Ultimate Backup Guide** Jeff Blum, 2023-05-20 \*\*\* NEW EDITION: UPDATED MAY 2023 \*\*\* You've probably been hearing a lot about data backup these days, thanks to the increasing popularity of services like Dropbox, Google Drive, OneDrive, Carbonite, etc. This guide—the result of months of research and writing—will cover all of those and much more. While at first glance backup seems like a straightforward topic, it can be complicated by the following common situations: - Having more data than you can fit on your computer - Using multiple computers that need access to the same files - Making some files accessible on the Web for times when you can't use your own computer - Syncing and accessing some files with your mobile devices (phones, tablets) - Protecting yourself from a major system crash, theft or disaster - Keeping copies of different versions of some files - Syncing or backing up only selected files instead of everything My goal is to help you understand everything you need to know about protecting your data with backups. I will also show you how to sync your files across all your computing devices and how to share selected files or collaborate with others. At its core, this is a technology guide, but securing your digital data is about more than just technology. Thus, I will provide a unique framework to help you organize and more easily work with your data. You will learn how to match different techniques to different data types and hopefully become more productive in the process. I have tried to make this guide complete, which means it must appeal to the tech-savvy and technophobe alike. Thus, you will read—in simple terms—about the different types of backup (full, incremental, differential, delta), cloud

services, how to protect your files with encryption, the importance of file systems when working with different types of computers, permanently assigning drive letters to external drives, and other useful tips. In many sections of the guide I present a fairly complete listing of backup and syncing tools and services. I do this to be thorough and for those who may have special needs or an above-average interest in the topic. However, I recognize you will most likely be more interested in personal suggestions than a full listing of choices which will require time to investigate. Accordingly, I highlight the tools I have used and recommend. Moreover, I lay out my complete backup and syncing system, which you are free to copy if it suits you. Note: I am a Windows user and this bias shows in parts of the guide. Most of the concepts are independent of operating system, and many of the recommended programs are available for Macs as well as Windows, but some details (e.g., the discussion of Windows Libraries) and some highlighted software and services, are Windows-only. I think if you are a Mac user you are already used to this common bias, but I wish to make it clear before you decide to read this guide.

**Data Protection** Preston de Guise, 2020-04-29 The second edition of Data Protection goes beyond the traditional topics including deduplication, continuous availability, snapshots, replication, backup, and recovery, and explores such additional considerations as legal, privacy, and ethical issues. A new model is presented for understanding and planning the various aspects of data protection, which is essential to developing holistic strategies. The second edition also addresses the cloud and the growing adoption of software and function as a service, as well as effectively planning over the lifespan of a workload: what the best mix of traditional and cloud native data protection services might be. Virtualization continues to present new challenges to data protection, and the impact of containerization is examined. The book takes a holistic, business-based approach to data protection. It explains how data protection is a mix of proactive and reactive planning, technology, and activities that allow for data continuity. There are three essential activities that refer to themselves as data protection; while they all overlap in terms of scope and function, each operates as a reasonably self-contained field with its own specialists and domain nomenclature. These three activities are: • Data protection as a storage and recovery activity • Data protection as a security activity • Data protection as a privacy activity These activities are covered in detail, with a focus on how organizations can use them to leverage their IT investments and optimize costs. The book also explains how data protection is becoming an enabler for new processes around data movement and data processing. This book arms readers with information critical for making decisions on how data can be protected against loss in the cloud, on premises, or in a mix of the two. It explains the changing face of recovery in a highly virtualized datacenter and techniques for dealing with big data. Moreover, it presents a model for where data recovery processes can be integrated with IT governance and management in order to achieve the right focus on recoverability across the business. About the Author Preston de Guise has been working with data recovery products for his entire career—designing, implementing, and supporting solutions for governments, universities, and businesses ranging from SMEs to Fortune 500 companies. This broad exposure to industry verticals and business sizes has enabled Preston to understand not only the technical requirements of data protection and recovery, but the management and procedural aspects too.

**Modern Data Protection** W. Curtis Preston, 2021-06-30 Give your organization the data protection it deserves, without the uncertainty and cost overruns experienced by your predecessors or other companies. System and network administrators today have their work cut out for them to protect physical and virtual machines in the data center and the cloud, mobile devices including laptops and tablets, SaaS services like Microsoft 365, Google Workspace, and Salesforce, and any persistent data created by Kubernetes and

container workloads. To help you navigate the breadth and depth of this challenge, this book presents several solutions so you can determine which one is right for your company. You'll learn the unique requirements that each workload presents, then explore various categories of commercial backup hardware, software, and services available to protect these data sources, including the advantages and disadvantages of each approach. Learn the workload types that your organization should be backing up Explore the hardware, software, and services you can use to back up your systems Understand what's wrong with your current data protection system Pair your backed-up workloads to the appropriate backup system Learn the adjustments you need to make to make your backups better, without wasting money

Modern Data Protection W. Curtis Preston, 2021-04-29 Give your organization the data protection it deserves without the uncertainty and cost overruns experienced by your predecessors or other companies. System and network administrators have their work cut out for them to protect physical and virtual machines in the data center and the cloud; mobile devices including laptops and tablets; SaaS services like Microsoft 365, Google Workspace, and Salesforce; and persistent data created by Kubernetes and container workloads. To help you navigate the breadth and depth of this challenge, this book presents several solutions so you can determine which is right for your company. You'll learn the unique requirements that each workload presents, then explore various categories of commercial backup hardware, software, and services available to protect these data sources, including the advantages and disadvantages of each approach. Learn the workload types that your organization should be backing up Explore the hardware, software, and services you can use to back up your systems Understand what's wrong with your current data protection system Pair your backed-up workloads to the appropriate backup system Learn the adjustments that will make your backups better, without wasting money

**How to Create a Digital Fort Knox** Joseph William Cristina, 2021-07 In today's digital world we produce vast amounts of data; photos, videos, music, documents, and more. Our risk of catastrophic data loss has never been greater as many of us rely on third parties or The Cloud for data storage and security. The question we must ask ourselves is simply what happens when, not if, but when stormy weather strikes, the cloud opens up, and our data is lost forever? Over the years, we've all heard reports of large corporations providing cloud storage backup losing customers' critical data. The bottom line is, the cloud isn't as secure as many believe it to be. In the Terms Of Service, which we must all agree to, most of these companies are provided legal protection against data loss. Many of us are not aware of or do not practice the 3-2-1 time-honored backup strategy which states, you must have 3 copies of your data at all times. A primary (working copy), secondary (archival copy), and an off-site (cold-storage copy) for disaster recovery. This book covers the archival data backup portion of the 3-2-1 rule by providing a step-by-step easy, and affordable method of creating a safe and secure local data backup solution. This includes an easy-to-follow installation and configuration of an Unraid Server. I've deliberately used older components unearched from my garage to show that shiny new expensive parts are not required to build a reliable, safe, and secure backup solution. By providing both practical knowledge and understanding this book will continue to be an asset for many years to come. Don't wait! Now is the time to backup and safeguard your digital life! Grab a cup of tea or maybe some coffee and let's get started?

*Effective MySQL Backup and Recovery* Ronald Bradford, 2012-05-22 The Essential Guide to Protecting Your Business Information Written by Oracle ACE Director and MySQL expert Ronald Bradford, *Effective MySQL: Backup and Recovery* covers all the options with detailed descriptions and syntax examples to ensure an appropriate backup and recovery plan can be developed. Featuring a side-by-

side evaluation of the various backup strategies and complementary recovery implementations, this Oracle Press book helps you to protect your MySQL data from a wide range of disaster situations. Learn how different backup strategies affect locking and system availability Identify the importance of static backup options and point-in-time requirements Recognize the important business factors to determine your optimal data protection requirements Understand the benefits of using MySQL replication for leveraging different backup strategies Understand the benefits and risks of implementing solutions with MySQL in the cloud Identify key configuration variables that affect data durability and performance Find out about the types of possible disasters and develop a robust plan to address them Optimize your backup approach with compression, streaming, incremental, and parallel options

Beginning Backup and Restore for SQL Server Bradley Beard,2018-06-19 Be guided through the techniques to back up and restore databases and files in SQL Server. Multiple techniques are presented for ensuring the integrity and consistency of database backups, as well as the reliability and manageability of restoring from backups. In today's data-driven world, the most important asset that a company has is its data. Data recovery strategies can be wide ranging; from the practically non-existent backup without verification to a very complex, distributed, and redundant system. An important objective for any database administrator is data loss prevention, and in a catastrophic data loss event, pre-defined data recovery techniques must be employed in order to get the databases back up and running efficiently and quickly. Using a tutorial method of teaching, *Beginning Backup and Restore for SQL Server* explores the many facets behind the principles of backing up and restoring data from your database, and then shows practical application methods for getting the work done quickly and correctly. This book is an essential guide toward discovering the correct path to protecting the data for your organization. What You'll Learn Be instructed on backup and restore techniques and principles Understand the importance of a fully implemented backup plan in SQL Server Agent Integrate backup and restore techniques into an existing environment Consider space and time requirements for backup and restore operations Master the principles for common deployment types Who This Book Is For Administrators who need to learn or refresh their knowledge of how to back up and restore SQL Server databases in various scenarios

*Data Protection for Virtual Data Centers* Jason Buffington,2010-07-08 Essential information on how to protect data in virtual environments! Virtualization is changing the data center architecture and as a result, data protection is quickly evolving as well. This unique book, written by an industry expert with over eighteen years of data storage/backup experience, shows you how to approach, protect, and manage data in a virtualized environment. You'll get up to speed on data protection problems, explore the data protection technologies available today, see how to adapt to virtualization, and more. The book uses a good, better, best approach, exploring best practices for backup, high availability, disaster recovery, business continuity, and more. Covers best practices and essential information on protecting data in virtualized enterprise environments Shows you how to approach, protect, and manage data while also meeting such challenges as return on investment, existing service level agreements (SLAs), and more Helps system and design architects understand data protection issues and technologies in advance, so they can design systems to meet the challenges Explains how to make absolutely critical services such as file services and e-mail more available without sacrificing protection Offers best practices and solutions for backup, availability, disaster recovery, and others This is a must-have guide for any Windows server and application administrator who is charged with data recovery and maintaining higher uptimes.

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

**Hadoop Backup and Recovery Solutions** Gaurav Barot,Chintan Mehta,Amij Patel,2015-07-28 If you are a Hadoop administrator and you want to get a good grounding in how to back up large amounts of data and manage Hadoop clusters, then this book is for you.

GB/T 36092-2018 Translated English of Chinese Standard. (GBT 36092-2018, GB/T36092-2018, GBT36092-2018)

<https://www.chinesestandard.net>,2019-01-20 This Standard specifies the application requirements of data backup and recovery in information processing equipment. This Standard is applicable to data protection measures that are adopted to cope with data loss and data destruction in the information technology field.

**Oracle Database 10g RMAN Backup & Recovery** Matthew Hart,Robert G. Freeman,2006-12-05 The Most Complete Guide to Maximizing Oracle Recovery Manager Deploy a rock-solid data backup and disaster recovery strategy with the in-depth guidance of this authoritative volume. From the exclusive publishers of Oracle Press books, Oracle Database 10g RMAN Backup & Recovery shows you, step by step, how to set up RMAN-ready databases, create reliable backup tapes and discs, and perform accurate Oracle system restores. Find out how to use RMAN from the command line and from Enterprise Manager, generate meaningful lists and reports, and automate administrative tasks using third-party media management tools. Plus, you'll learn to perform incremental backups, Flashback recoveries, and database cloning. Set up, configure, and maintain Oracle Database 10g RMAN Use RMAN recovery catalogs, target database packages, and control files Centralize backup tape management using Oracle Secure Backup Perform online, offline, and incremental system backups Monitor and tune performance with Enterprise Manager Grid Control and Database Control Accomplish complete and partial RMAN database restores Improve functionality using VERITAS NetBackup, EMC NetWorker Module, and Tivoli Storage Manager Overcome human errors using Flashback Versions Query and Transaction Query Create clone and standby databases from tape and disc backups Work with Real Application Cluster (RAC) databases and sync-and-split hardware technologies

**IBM Tivoli Storage Manager as a Data Protection Solution** Larry Coyne,Gerd Becker,Rosane Langnor,Mikael Lindstrom,Pia Nymann,Felipe Peres,Norbert Pott,Julien Sauvanet,Gokhan Yildirim,IBM Redbooks,2014-08-15 When you hear IBM® Tivoli® Storage Manager, the first thing that you typically think of is data backup. Tivoli Storage Manager is the premier storage management solution for mixed platform environments. Businesses face a tidal wave of information and data that seems to increase daily. The ability to successfully and efficiently manage information and data has become imperative. The Tivoli Storage Manager family of products helps businesses successfully gain better control and efficiently manage the information tidal wave through significant enhancements in multiple facets of data protection. Tivoli Storage Manager is a highly scalable and available data protection solution. It takes data protection scalability to the next level with a relational database, which is based on IBM DB2® technology. Greater availability is delivered through enhancements such as online, automated database reorganization. This IBM Redbooks® publication describes the evolving set of data-protection challenges and how capabilities in Tivoli Storage Manager can best be used to address those challenges. This book is more than merely a description of new and changed functions in Tivoli Storage Manager; it is a guide to use for your overall data protection solution.

Fuel your quest for knowledge with is thought-provoking masterpiece, Explore **Data Backup** . This educational ebook, conveniently sized in PDF ( \*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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