Backup

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

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.

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.

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.

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 chapterexplains 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 GarageTM for Systems Technical Education.

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

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.

  Enterprise Systems Backup and Recovery Preston de Guise,2008-10-01 The success of information backup systems does not rest on IT administrators alone. Rather, a well-designed backup system comes about only when several key factors coalesce—business involvement, IT acceptance, best practice designs, enterprise software, and reliable hardware. Enterprise Systems Backup and Recovery: A Corporate Insurance Policy provides

organizations with a comprehensive understanding
of the principles and features involved in
effective enterprise backups. Instead of focusing
on any individual backup product, this book
recommends corporate procedures and policies that
need to be established for comprehensive data
protection. It provides relevant information to
any organization, regardless of which operating
systems or applications are deployed, what backup
system is in place, or what planning has been done
for business continuity. It explains how backup
must be included in every phase of system
planning, development, operation, and maintenance.
It also provides techniques for analyzing and
improving current backup system performance. After
reviewing the concepts in this book, organizations
will be able to answer these questions with
respect to their enterprise: What features and
functionality should be expected in a backup
environment? What terminology and concepts are
unique to backup software, and what can be related
to other areas? How can a backup system be
monitored successfully? How can the performance of
a backup system be improved? What features are
just window dressing and should be ignored, as
opposed to those features that are relevant?
Backup and recovery systems touch on just about
every system in an organization. Properly
implemented, they can provide an enterprise with
greater assurance that its information is safe. By
utilizing the information in this book,
organizations can take a greater step toward
improving the security of their data and
preventing the devastating loss of data and
business revenue that can occur with poorly
constructed or inefficient systems.

   Restore From Backup J. F. Gonzalez,Mike
Oliveri,2017 Lyle Harrelson is in a jam. He's been
laid off, the bills are piling up, and he can't
even afford to get his sick daughter to the

doctor. Then his old college buddy Carl calls.
Carl has a lead on a new job with great pay, solid
benefits, and an immediate opening. Carl pounces
on the opportunity. He has no idea what he's
getting into. His co-workers are secretive. His
boss is a stone cold bitch. And when he wonders
exactly what it is Kaiser Development Systems
does, nobody will give him an answer.Carl calls
him again, this time warning him to stay away from
Kaiser. Moments later, Carl is dead. Lyle wants to
know why. He tries to learn more about Kaiser: who
they are, what they do, what the strange data on
the servers he manages is for. But he's made a
mistake.And then the real trouble begins.

Implementing Backup and Recovery David B
Little,2003-08-19 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

Backup & 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, ntbackup, 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)

   Mastering Veeam Backup & Replication 10 Chris Childerhose,2021-02-18 Gain proficiency in monitoring infrastructure along with focusing on cloud backup and recovery Key FeaturesExplore the 3-2-1 rule of backups in Veeam to keep your data safeGain in-depth knowledge of NAS backups and Scale-Out Repositories to use in your virtual environmentDiscover Veeam's monitoring and reporting utility – Veeam ONE – along with Linux and Window's proxyBook Description Veeam is one of the leading modern data protection solutions, and mastering this technology can help you to protect your virtual environments effectively. This book guides you through implementing modern data protection solutions for your cloud and virtual infrastructure with Veeam. You will even gain in-depth knowledge of advanced concepts such as

DataLabs, cloud backup and recovery, Instant VM
Recovery, and Veeam ONE. This book starts by
taking you through Veeam essentials, including
installation, best practices, and optimizations
for Veeam Backup & Replication. You'll get to
grips with the 3-2-1 rule to safeguard data along
with understanding how to set up a backup server,
proxies, repositories, and more. Later chapters go
on to cover a powerful feature of Veeam 10 - NAS
backup. As you progress, you'll learn about scale-
out Repositories and best practices for creating
them. In the concluding chapters, you'll explore
the new proxy option available in both Linux and
Windows. Finally, you'll discover advanced topics
such as DataLabs, cloud backup and recovery,
Instant VM Recovery, and Veeam ONE. By the end of
this book, you will be equipped with the skills
you need to implement Veeam Backup & Replication
for your environment and disaster recovery. What
you will learnDiscover the advanced concepts of
Veeam Backup & Replication 10Master application
optimizations based on Veeam best
practicesUnderstand how to configure NAS backups
and work with repositories and proxiesExplore
different ways to protect your backups, including
object immutability and cloud backup and
recoveryDiscover how DataLabs worksUnderstand how
Instant VM Recovery allows you to restore virtual
machinesBecome well versed in Veeam ONE for
monitoring and reporting on your environmentWho
this book is for This Veeam backup book is for IT
professionals who have intermediate to advanced-
level knowledge of virtualization as well as
backups and backup applications. Anyone who needs
a reference guide for learning the advanced
features of Veeam Backup & Replication and how
they are used, including best practices and
optimizations, will also find this book useful.
  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.

   Instant PostgreSQL Backup and Restore How-to Shaun Thomas,2013-03-26 Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This hands-on guide provides a quick and easy way to back up and restore your database using PostgreSQL.Written for database administrators who want to create backups of their critical enterprise data and efficiently restore it using PostgreSQL.

   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, ntbackup, 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)

  <u>Mastering Veeam Backup & Replication</u> Chris Childerhose,2023-04-28 Protect your cloud, virtual, and on-premises environments by implementing Veeam's powerful backup and replication technology Purchase of the print or Kindle book includes a free PDF eBook Key Features Gain in-depth knowledge of core architecture changes including PostgreSQL Work with VeeaMover and understand how it can help manage backups and SOBRs Explore Object Storage – Direct to Object – ability to add Object Storage as your primary repository Book Description Veeam is one of the leading modern data protection solutions, making it a necessary skill for anyone responsible for backing up virtual environments. This new edition of Mastering Veeam Backup & Replication is revised and updated to cover Veeam version 12. This edition covers some new features added to the application, such as VeeaMover, Per Machine Backup chains, and MFA on the console. The book guides you through implementing modern data protection solutions for your cloud and virtual infrastructure with Veeam while helping you master advanced concepts such as Continuous Data Protection (CDP), extended object storage support, VeeaMover, and security settings. You'll dive deep into other new features as well, such as Direct to Object storage, Object to Tape and learn about CDP

from a service provider perspective with Veeam Cloud Connect (VCC). By the end of this Veeam book, you'll be able to successfully implement Veeam Backup & Replication to secure your environment and enable disaster recovery. What you will learn Understand installing and upgrading Veeam to v12 Master the ability to use PostgreSQL for databases Explore SOBR – Direct to Object storage in performance tier Explore enhanced security, including MFA and Auto-Logoff Understand NAS Backup with Immutability Support Discover how GDP to vCD works for Cloud Connect Learn how to get instant VM Recovery on VCC Who this book is for This book is for backup administrators or cloud disaster architects looking to gain expertise in all things Veeam. This book is also for IT professionals who have intermediate to advanced-level knowledge of virtualization as well as backups and backup applications. Anyone who needs a reference guide for learning the advanced and latest features of Veeam 12 will find this book useful.

  Instant Recovery with Write-Ahead Logging Goetz Graefe,Wey Guy,Caetano Sauer,2022-05-31 Traditional theory and practice of write-ahead logging and of database recovery focus on three failure classes: transaction failures (typically due to deadlocks) resolved by transaction rollback; system failures (typically power or software faults) resolved by restart with log analysis, redo, and undo phases; and media failures (typically hardware faults) resolved by restore operations that combine multiple types of backups and log replay. The recent addition of single-page failures and single-page recovery has opened new opportunities far beyond the original aim of immediate, lossless repair of single-page wear-out in novel or traditional storage hardware. In the contexts of system and media failures, efficient single-page recovery enables on-demand

incremental redo and undo as part of system
restart or media restore operations. This can give
the illusion of practically instantaneous restart
and restore: instant restart permits processing
new queries and updates seconds after system
reboot and instant restore permits resuming
queries and updates on empty replacement media as
if those were already fully recovered. In the
context of node and network failures, instant
restart and instant restore combine to enable
practically instant failover from a failing
database node to one holding merely an out-of-date
backup and a log archive, yet without loss of
data, updates, or transactional integrity. In
addition to these instant recovery techniques, the
discussion introduces self-repairing indexes and
much faster offline restore operations, which
impose no slowdown in backup operations and hardly
any slowdown in log archiving operations. The new
restore techniques also render differential and
incremental backups obsolete, complete backup
commands on a database server practically
instantly, and even permit taking full up-to-date
backups without imposing any load on the database
server. Compared to the first version of this
book, this second edition adds sections on
applications of single-page repair, instant
restart, single-pass restore, and instant restore.
Moreover, it adds sections on instant failover
among nodes in a cluster, applications of instant
failover, recovery for file systems and data
files, and the performance of instant restart and
instant restore.

   DFSMShsm Fast Replication Technical Guide Keith
Winnard,Jeanne Vangsness,IBM Redbooks,2015-05-12
DFSMShsm fast replication provides DFSMShsm
management for the use of volume-level fast
replication. Fast replication is made possible by
using the FlashCopy® capability of storage
servers. With this capability, a set of storage

groups can be defined as a copy pool. The volumes in this pool are processed collectively creating, by fast replication, backup versions that are managed by DFSMShsm. Recovery can be performed at the volume or copy pool level. This capability is designed to work specifically with DB2® Version 8 or later. With DFSMShsm fast replication, the backup and recovery of DB2 copy pools can be managed by DFSMShsm. DFSMShsm fast replication provides a quick, easy-to-use backup and recovery solution. This IBM® Redbooks® publication consists of a technical overview of the DFSMShsm fast replication function in z/OS® V1R12 Data Facility Storage Management Subsystem (DFSMS). It provides you with the information that you need to understand and evaluate the function, with practical implementation hints and tips. This book is written for storage professionals, database administrators, and system programmers who have experience with the components of DFSMS. It provides sufficient information for you to implement the DFSMShsm fast replication function in your storage environment.

   Oracle Database 12c Backup and Recovery Survival Guide Francisco Munoz Alvarez,Aman Sharma,2013-09-24 The book follows a tutorial-based approach, covering all the best practices for backup and recovery. The book starts by introducing readers to the world of backup and recovery, then moves on to teach them the new features offered by Oracle 12c. The book is full of useful tips and best practices that are essential for any DBA to perform backup and recovery operations in an organization.This book is designed for Oracle DBAs and system administrators. The reader will have a basic working experience of administering Oracle databases. This book is designed for Oracle DBAs and system administrators.This book will become a reference guide and will also help you to learn

some new skills, and give you some new ideas you never knew about, helping you to easily find the solution to some of the most well-known problems you could encounter as DBAs.

SAP Backup using Tivoli Storage Manager Budi Darmawan,Miroslav Dvorak,Dhruv Harnal,Gerson Makino,Markus Molnar,Rennad Murugan,Marcos Silva,IBM Redbooks,2013-04-26 In this IBM® Redbooks® publication, we give an overview of different data management topics related to a typical SAP® data center. The intrinsic functionality of SAP is not designed to completely handle all the tasks of a data center by itself, but the SAP system offers several interface possibilities to attach external tools to it to accomplish this task We explain SAP basic concepts and the issues with SAP data management. We introduce Tivoli® Storage Manager and all of its products that are related to SAP data management. We provide some comparison between database backup and recovery tools. Finally, we discuss data archiving using IBM DB2® CommonStore for SAP, and discuss high availability requirements and disaster recovery considerations. The second part of this book discusses a practical implementation of SAP backup and recovery with Tivoli Storage Manager. We implement this setup on two separate SAP systems: one running DB2 and the other running Oracle® database. We also implement LAN-free backup and FlashCopy® scenarios. In the sample implementation section, we show many different tasks, such as backup and restore, database recovery, backup monitoring, and tuning. We also cover some advanced backup/availability considerations, such as split mirror backup and standby databases. This book helps individuals that operate an SAP environment to devise a strategy for a sound and comprehensive data backup solution using the IBM Tivoli Storage Management product family.

Disaster Recovery and Backup Solutions for IBM FileNet P8 Version 4.5.1 Systems Wei-Dong Zhu,Gary Allenbach,Ross Battaglia,Julie Boudreaux,David Harnick-Shapiro,Heajin Kim,Bob Kreuch,Tim Morgan,Sandip Patel,Martin Willingham,IBM Redbooks,2015-04-13 Many organizations require continuous operation of their mission-critical, IBM® FileNet P8® systems after a failure has occurred. Loss of system resources and services as a result of any failure can translate directly into lost customers and lost revenue. The goal, therefore, is to design and implement a FileNet P8 system that ensures continuous operation even after a failure happens. This IBM Redbooks® publication focuses on FileNet P8 Version 4.5.1 systems disaster recovery. The book covers strategies, preparation levels, site sizing, data replication, testing, and what to do during a disaster. Backup and restore planning is a critical aspect of a disaster recovery strategy. We discuss backup types and strategies. We also discuss alternative strategies such as rolling storage policies and IBM FlashCopy® capability. With the help of use cases and our lab testing environment, the book provides guidelines for setting up a FileNet P8 production environment and a standby FileNet P8 disaster recovery system. This book is intended for IT architects, IT specialists, project managers, and decision makers, who must identify the best disaster recovery strategies and integrate them into the FileNet P8 system design process.

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