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# Backup & Recovery: Inexpensive Backup Solutions For Open Systems



## Synopsis

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)

## Book Information

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## Customer Reviews

W. Curtis Preston is the king of backups, and his book *Backup and Recovery (BAR)* is easily the best book available on the subject. Preston makes many good decisions in this book, covering open source projects and considerations for commercial solutions. Tool discussions are accompanied by sound advice and plenty of short war stories. If the author addresses the few concerns I have in his next edition, that should be a five star book. The best aspect of *BAR* is the author's obvious expertise in this subject. He does a good job sharing lots of his knowledge with the reader. Probably the most valuable conceptual framework I learned in *BAR* is the difference between backups and archives. Pages 696-7 summarize this nicely: "Backups are the secondary copy of primary data... Archives are the primary copy of secondary data." In this section and elsewhere, Preston describes how archives are the repository one should create when answering ediscovery requests and similar queries -- not backups. This is an extremely powerful idea and I plan to see how my employer deals with this issue. The second best aspect of *BAR* involves multiple chapters on backing up various databases. One can usually find similar coverage in single books on specific databases, but having all information in one book is useful for purposes of comparison. Chapter 15 provides an overview of the entire problem by discussing terminology and features found in many databases. This chapter helps storage admins understand the database admin world. Of particular note was the coverage of Microsoft Exchange, which the book calls a specialized database.

In the realm of important things in the world of computers are good backups and equally important is the ability to properly restore those backups. My initial attraction to this book had to do with it being tapered toward open system solutions. I am an avid user of Linux and open-source software, so I was interesting in learning about the free tools that the author writes about. The author starts out by discussing "The Philosophy of Backup" which covers why backups are so important and how you to find a solution that both meets your needs and your budget. Chapter two goes over what to backup, how often and at what levels. It also discussed what types of disaster to be prepared for, automation, storage, testing and things to look out for on various OS's. Chapters 3-7 cover open-source backup utilities. In chapter three the author discusses and provides examples of how to use basic utilities such as dump, cpio, tar and dd for Unix systems, ntbackup and System Restore for the Window's crowd, ditto for Mac, and the GNU versions of tar, cpio, and rsync. Chapter's 4-6 discuss Amanda, BackupPC and Bacula. Chapter seven digs into near-continuous data protection

and how the open-source community is achieving this, and what tools to use. By chapter 8 and 9 the author is discussing commercial backup solutions. This section is different from the last in that it doesn't really discuss specific tools and how to use them, but rather it discusses the features of commercial products. This section also covers the various types of backup hardware on the market in an effort to help the reader decide what media best meets their needs. Chapters 10-14 covers "Bare-Metal Recovery".

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