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Kerberos

The Definitive Guide

O'REILLY®

Jason Garman

Kerberos Definitive Guide

Gerald Carter, Jay Ts, Robert Eckstein



Kerberos Definitive Guide:

Kerberos: The Definitive Guide Jason Garman, 2003-08-26 Kerberos the single sign on authentication system originally developed at MIT deserves its name It s a faithful watchdog that keeps intruders out of your networks But it has been equally fierce to system administrators for whom the complexity of Kerberos is legendary Single sign on is the holy grail of network administration and Kerberos is the only game in town Microsoft by integrating Kerberos into Active Directory in Windows 2000 and 2003 has extended the reach of Kerberos to all networks large or small Kerberos makes your network more secure and more convenient for users by providing a single authentication system that works across the entire network One username one password one login is all you need Fortunately help for administrators is on the way Kerberos The Definitive Guide shows you how to implement Kerberos for secure authentication In addition to covering the basic principles behind cryptographic authentication it covers everything from basic installation to advanced topics like cross realm authentication defending against attacks on Kerberos and troubleshooting In addition to covering Microsoft s Active Directory implementation Kerberos The Definitive Guide covers both major implementations of Kerberos for Unix and Linux MIT and Heimdal It shows you how to set up Mac OS X as a Kerberos client The book also covers both versions of the Kerberos protocol that are still in use Kerberos 4 now obsolete and Kerberos 5 paying special attention to the integration between the different protocols and between Unix and Windows implementations If you ve been avoiding Kerberos because it s confusing and poorly documented it s time to get on board This book shows you how to put Kerberos authentication to work on your Windows and Unix systems

Kerberos Jason Garman, 2003

SSH, The Secure Shell: The Definitive Guide Daniel J. Barrett, Richard E. Silverman, Robert G. Byrnes, 2005-05-10 Are you serious about network security Then check out SSH the Secure Shell which provides key based authentication and transparent encryption for your network connections It s reliable robust and reasonably easy to use and both free and commercial implementations are widely available for most operating systems While it doesn t solve every privacy and security problem SSH eliminates several of them very effectively Everything you want to know about SSH is in our second edition of SSH The Secure Shell The Definitive Guide This updated book thoroughly covers the latest SSH 2 protocol for system administrators and end users interested in using this increasingly popular TCP IP based solution How does it work Whenever data is sent to the network SSH automatically encrypts it When data reaches its intended recipient SSH decrypts it The result is transparent encryption users can work normally unaware that their communications are already encrypted SSH supports secure file transfer between computers secure remote logins and a unique tunneling capability that adds encryption to otherwise insecure network applications With SSH users can freely navigate the Internet and system administrators can secure their networks or perform remote administration Written for a wide technical audience SSH The Secure Shell The Definitive Guide covers several implementations of SSH for different operating systems and computing environments Whether you re an individual running Linux machines at home a corporate

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Hadoop: The Definitive Guide Tom White,2012-05-19 With the latest edition of this comprehensive resource readers will learn how to use Apache Hadoop to build and maintain reliable scalable distributed systems Ideal for programmers and administrators wanting to set up and analyze datasets of any size

Trino: The Definitive Guide Matt Fuller,Manfred Moser,Martin Traverso,2021-04-14 Perform fast interactive analytics against different data sources using the Trino high performance distributed SQL query engine With this practical guide you ll learn how to conduct analytics on data where it lives whether it s Hive Cassandra a relational database or a proprietary data store Analysts software engineers and production engineers will learn how to manage use and even develop with Trino Initially developed by Facebook open source Trino is now used by Netflix Airbnb LinkedIn Twitter Uber and many other companies Matt Fuller Manfred Moser and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization Get started Explore Trino s use cases and learn about tools that will help you connect to Trino and query data Go deeper Learn Trino s internal workings including how to connect to and query data sources with support for SQL statements operators functions and more Put Trino in production Secure Trino monitor workloads tune queries and connect more applications learn how other organizations apply Trino

Kafka: The Definitive Guide Gwen Shapira,Todd Palino,Rajini Sivaram,Krit Petty,2021-11-05 Every enterprise application creates data whether it consists of log messages metrics user activity or outgoing messages Moving all this data is just as important as the data itself With this updated edition application architects developers and production engineers new to the Kafka streaming platform will learn how to handle data in motion Additional chapters cover Kafka s AdminClient API transactions new security features and tooling changes Engineers from Confluent and LinkedIn responsible for developing Kafka explain how to deploy production Kafka clusters write reliable event driven microservices and build scalable stream processing applications with this platform Through detailed examples you ll learn Kafka s design principles reliability guarantees key APIs and architecture details including the replication protocol the controller and the storage layer You ll examine Best practices for deploying and configuring Kafka Kafka producers and consumers for writing and reading messages Patterns and use case requirements to ensure reliable data delivery Best practices for building data pipelines and applications with Kafka How to perform monitoring tuning and maintenance tasks with Kafka in production The most critical metrics among Kafka s operational measurements Kafka s delivery capabilities for stream processing systems

802.11 Wireless Networks: The Definitive Guide Matthew S. Gast,2005-04-25 As we all know by now wireless networks offer many advantages over fixed or wired networks Foremost on that list is mobility since going wireless frees you from the tether

of an Ethernet cable at a desk But that's just the tip of the cable-free iceberg Wireless networks are also more flexible faster and easier for you to use and more affordable to deploy and maintain The de facto standard for wireless networking is the 802.11 protocol which includes Wi-Fi the wireless standard known as 802.11b and its faster cousin 802.11g With easy-to-install 802.11 network hardware available everywhere you turn the choice seems simple and many people dive into wireless computing with less thought and planning than they'd give to a wired network But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols And 802.11 Wireless Networks The Definitive Guide 2nd Edition is the perfect place to start This updated edition covers everything you'll ever need to know about wireless technology Designed with the system administrator or serious home user in mind it's a no-nonsense guide for setting up 802.11 on Windows and Linux Among the wide range of topics covered are discussions on deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology the advantages to its users are indeed plentiful Companies no longer have to deal with the hassle and expense of wiring buildings and households with several computers can avoid fights over who's online And now with 802.11 Wireless Networks The Definitive Guide 2nd Edition you can integrate wireless technology into your current infrastructure with the utmost confidence

SharePoint 2007: The Definitive Guide James Pyles, 2007-09-24 Provides information on the features applications and extensions of Microsoft Office SharePoint 2007

Using Samba Gerald Carter, Jay Ts, Robert Eckstein, 2007-01-23 This book is the comprehensive guide to Samba administration officially adopted by the Samba Team Wondering how to integrate Samba's authentication with that of a Windows domain How to get Samba to serve Microsoft DFS shares How to share files on Mac OS X These and a dozen other issues of interest to system administrators are covered A whole chapter is dedicated to troubleshooting The range of this book knows few bounds Using Samba takes you from basic installation and configuration on both the client and server side for a wide range of systems to subtle details of security cross-platform compatibility and resource discovery that make the difference between whether users see the folder they expect or a cryptic error message The current edition covers such advanced 3.x features as Integration with Active Directory and OpenLDAP Migrating from Windows NT 4.0 domains to Samba Delegating administrative tasks to non-root users Central printer management Advanced file serving features such as making use of Virtual File System (VFS) plugins Samba is a cross-platform triumph robust flexible and fast it turns a Unix or Linux system into a file and print server for Microsoft Windows network clients This book will help you make your file and print sharing as powerful and efficient as possible The authors delve into the internals of the Windows activities and protocols to an unprecedented degree explaining the strengths and weaknesses of each feature in Windows domains and in Samba itself Whether you're playing on your personal computer or an enterprise network on one note or a full three-octave range Using Samba will give you an efficient and secure server

[Windows Server 2003 Security](#)

Cookbook Mike Danseglio,Robbie Allen,2005-12-16 In the last few years security has become a hot button issue for IT organizations of all sizes Accordingly many of the security features that were either optional or suspect in Windows 2000 have become solid effective fixtures in Windows Server 2003 making it the most secure operating system Microsoft has ever produced That is if you know how to configure it properly The Windows Server 2003 Security Cookbook wants to make sure that you do know how Picking up right where its predecessor the Windows Server Cookbook left off this desktop companion is focused solely on Windows Server security It teaches you how to perform important security tasks in the Windows Server 2003 OS using specific and adaptable recipes Each recipe features a brief description of the problem a step by step solution and then a discussion of the technology at work Whenever possible the authors even tell you where to look for further information on a recipe The book is written in a highly modular format with each chapter devoted to one or more technologies that Windows Server 2003 provides This approach allows you to look up a task or scenario that you want to accomplish find that page and read that particular recipe only Topics include System preparation and administration Protecting the computer at the TCP IP level Applying security options to Active Directory Improving security on domain controllers Securing DHCP controllers Encrypting and signing network traffic using IPSec Patch management If you re an intermediate or advanced system administrator who wants to feel secure when deploying Windows Server 2003 and its related services then you don t want to be without the Windows Server 2003 Security Cookbook Linux Server Hacks, Volume Two William von Hagen,Brian K. Jones,2005-12-22 For anyone running a network of Linux servers whether it s a large data center or a small home network this engaging book provides short targeted lessons to improve their productivity and sharpen their administration skills **The Definitive Guide to Samba 3** Roderick Smith,2004-04-05 If you re familiar with Unix administration TCP IP networking and other common Unix servers and you want to learn how to deploy Samba this book is ideal for you With this book as a guide you can quickly configure a basic Samba server and then move on to learn about Samba s more exotic features including those new to Samba 3 0 The topics in this book are approached from both an experienced Unix user and an administrator s point of view to help you optimize Samba Samba is an efficient file and print server that enables you to get the most out of your computer hardware In Samba 3 0 many important features have been added particularly in the realm of domain administration and membership such as improved support for membership in Windows 200x domains and a wider array of authentication options Samba also boasts several advanced features with which you can perform very complex tasks For instance Samba can control an NT domain burn CD Rs with drag and drop operations from the client and function as part of a network backup system The Samba dance after which the server is named is known for its liveliness and the server is similarly energetic and dynamic So join in you may make a misstep or two but this book will help you avoid making too many and you ll soon be doing the TCP IP Samba along with the best **The Complete Guide to Windows Server 2008** John Savill,2008-10-01 This book is an invaluable one stop reference for

deploying configuring and managing Windows Server 2008 It s filled with John s unique and hard earned nuggets of advice helpful scripts and shortcuts that will save you time and money Mark Russinovich The Start to Finish Comprehensive Windows Server 2008 Book for Every Working Administrator and Architect To make the most of Windows Server 2008 in production environments you need a deep understanding of its technical details However accurate and reliable information is scarce and even most skilled Windows professionals don t know Windows Server 2008 as well as they should The Complete Guide to Windows Server 2008 brings together more than 1 500 pages of practical Windows Server 2008 insight and in depth knowledge that you can t find anywhere else all based on final code John Savill one of the world s most visible and trusted experts on Windows Server technology specializes in helping real companies use Windows Server 2008 to run their businesses His access to Microsoft s product team as a Microsoft MVP and one of 50 elite Windows Server 2008 Delta Force Rangers benefited this book s accuracy and value Coverage includes Deployment planning implementing and managing new features including Windows Server Core and Hyper V virtualization Choosing the right installation and upgrade options for your environment Securing Windows Server 2008 authentication authorization BitLocker certification services and more Implementing TCP IP advanced network services remote access and thin client Terminal Services Active Directory in depth including Federated Services Lightweight Directory Services and Rights Management Providing high availability through Network Load Balancing and failover clustering Using Windows Deployment Services to quickly deploy multiple servers Supporting complex distributed environments with the Distributed File System Automating server management with PowerShell and the command prompt Integrating Windows Server 2008 with UNIX Linux and legacy NetWare servers Troubleshooting Windows Server 2008 and Vista environments including an intuitive how to index to quickly locate answers to commonly asked questions www.savilltech.com/completeguidetowindows2008 *Apple Training Series* Schoun Regan, 2005-12-13 This comprehensive technical reference guide provides in depth information on Apple technical architecture It will teach the reader how to install and configure machines architect and maintain networks enable customize tune and troubleshoot a wide range of services and integrate Mac OS X Mac OS X Server and other Apple technologies within a networked environment The book covers myriad system administration topics from Directory Services integration to Tiger Server deployment Xsan administration account management best practices security best practices and more Following the learning objectives of the Apple Certified System Administrator exam this book is a perfect supplement to Apple s own training class and a in depth technical reference for existing system administrators and engineers **Apple Training Series** Arek Dreyer, Ben Greisler, 2009-10-21 The only Apple certified book on Mac OS X Server v10.6 this comprehensive reference takes support technicians and ardent Mac users deep inside this server operating system covering everything from networking technologies to service administration customizing users and groups command line service equivalents and more Keyed to the learning objectives of the Apple Certified Technical Coordinator certification exam the lessons in this self paced

volume serve as a perfect supplement to Apple's own training class and a first rate primer for computer support personnel who need to support and maintain Mac OS X Server as part of their jobs Self quizzes reinforce lessons The Apple Training Series serves as both a self paced learning tool and the official curriculum for the Mac OS X and Mac OS X Server certification programs

SSH, the Secure Shell Daniel J. Barrett, Richard E. Silverman, 2001 A guide to the TCP/IP based network security and privacy solution covers installation configuration maintenance SSH server control application tunneling forced commands port and agent forwarding and troubleshooting

Resource Optimization and Security for Cloud Services Kaiqi Xiong, 2014-02-19 This book includes a study of trustworthiness percentile response time service availability and authentication in the networks between users and cloud service providers and at service stations or sites that may be owned by different service providers The first part of the book contains an analysis of percentile response time which is one of the most important SLA service level agreements metrics Effective and accurate numerical solutions for the calculation of the percentile response time in single class and multi class queueing networks are obtained Then the numerical solution is incorporated in a resource allocation problem Specifically the authors present an approach for the resource optimization that minimizes the total cost of computer resources required while preserving a given percentile of the response time In the second part the approach is extended to consider trustworthiness service availability and the percentile of response time in Web services These QoS metrics are clearly defined and their quantitative analysis provided The authors then take into account these QoS metrics in a trust based resource allocation problem in which a set of cloud computing resources is used by a service provider to host a typical Web services application for single class customer services and multiple class customer services respectively Finally in the third part of the book a thorough performance evaluation of two notable public key cryptography based authentication techniques Public Key Cross Realm Authentication in Kerberos PKCROSS and Public Key Utilizing Tickets for Application Servers PKTAPP is given in terms of computational and communication times The authors then demonstrate their performance difference using queueing networks PKTAPP has been proposed to address the scalability issue of PKCROSS However their in depth analysis of these two techniques shows that PKTAPP does not perform better than PKCROSS in a large scale system Thus they propose a new public key cryptography based group authentication technique The performance analysis demonstrates that the new technique can scale better than PKCROSS and PKTAPP

Tomcat: The Definitive Guide Jason Brittain, Ian F. Darwin, 2007-10-23 It takes a book as versatile as its subject to cover Apache Tomcat the popular open source Servlet and JSP container and high performance web server Tomcat The Definitive Guide is a valuable reference for administrators and webmasters a useful guide for programmers who want to use Tomcat as their web application server during development or in production and an excellent introduction for anyone interested in Tomcat Updated for the latest version of Tomcat this new edition offers a complete guide to installing configuring maintaining and securing this servlet container In fact with such a wealth of new information this is essentially a

new book rather than a simple revision You will find details for using Tomcat on all major platforms including Windows Linux OS X Solaris and FreeBSD along with specifics on Tomcat configuration files and step by step advice for deploying and running web applications This book offers complete information for Installation and startup procedures Configuring Tomcat including realms roles users servlet sessions and JNDI resources including JDBC DataSources Deploying web applications individual servlets and JSP pages and web application archive files Tuning Tomcat to measure and improve performance Integrating Tomcat with Apache Web Server Securing Tomcat to keep online thugs at bay Tomcat configuration files server.xml and web.xml and more Debugging and Troubleshooting diagnosing problems with Tomcat or a web application Compiling your own Tomcat rather than using the pre built release Running two or more Tomcat servlet containers in parallel This book also offers an overview of the Tomcat open source project s community resources including docs mailing lists and more Community interest fueled a strong demand for a Tomcat guide from O Reilly The result clearly exceeds expectations

Securing NFS in AIX An Introduction to NFS v4 in AIX 5L Version 5.3 Chris Almond,Lutz Deneffle,Sridhar Murthy,Aniket Patel,John Trindle,IBM Redbooks,2004-11-09 NFS Version 4 NFS V4 is the latest defined client to server protocol for NFS A significant upgrade from NFS V3 it was defined under the IETF framework by many contributors NFS V4 introduces major changes to the way NFS has been implemented and used before now including stronger security wide area network sharing and broader platform adaptability This IBM Redbooks publication is intended to provide a broad understanding of NFS V4 and specific AIX NFS V4 implementation details It discusses considerations for deployment of NFS V4 with a focus on exploiting the stronger security features of the new protocol In the initial implementation of NFS V4 in AIX 5.3 the most important functional differences are related to security Chapter 3 and parts of the planning and implementation chapters in Part 2 cover this topic in detail

Complete Guide to Security and Privacy Metrics Debra S. Herrmann,2007-01-22 This book defines more than 900 metrics measuring compliance with current legislation resiliency of security controls and return on investment It explains what needs to be measured why and how to measure it and how to tie security and privacy metrics to business goals and objectives The metrics are scaled by information sensitivity asset criticality and risk aligned to correspond with different lateral and hierarchical functions designed with flexible measurement boundaries and can be implemented individually or in combination The text includes numerous examples and sample reports and stresses a complete assessment by evaluating physical personnel IT and operational security controls

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web definition of beam optics beam optics the process of guiding a charged particle beam from to b using magnets an array of magnets which accomplishes this is a transport system or magnetic lattice recall the lorentz force on a particle $f = ma = e v \times b = \frac{d}{dt} \gamma m v$ where m γm_0 relativistic mass

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