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Virtualizing SQL Server with VMware *Professional VMware Server* **VMware Cookbook** Implementing VMware vCenter Server VMware Server & VMware Player *VMware vSphere 5 Administration Instant Reference* Virtualizing SQL Server with VMware **The Best Damn Server Virtualization Book Period** Advanced Server Virtualization **How to Cheat at Configuring VMware ESX Server** Mastering VMware vSphere 4 **VMware ESX and ESXi in the Enterprise** Mastering VMware vSphere 6.7 **VMware vSphere For Dummies** Configuring VMware ESX Server 2.5 **VMware Workstation Yu ESX Server dian xing ying yong zhi nan** **VMware ESX Server** VMware Server - Simple Steps to Win, Insights and Opportunities for Maxing Out Success **DevOps for VMware Administrators** **VMware vSphere 5@ Building a Virtual Datacenter** Best Practice Disaster Recovery Platform Virtualisasi VMware vSphere dengan Veeam dan Nakivo Virtualizing SQL Server With VMware *Virtualizing Microsoft Business Critical Applications on VMware vSphere* **BUILD ENTERPRISE VIRTUAL SERVER WITH VMWARE ESX** VMware ESX Essentials in the Virtual Data Center VMware ESX Server in the Enterprise **VMware Horizon Suite** VMware 96 Success Secrets - 96 Most Asked Questions on VMware - What You Need to Know VMware Server and VMware Player **Scripting VMware Power Tools: Automating Virtual Infrastructure Administration** Mastering VMware vSphere 5.5 Learning VMware vSphere **Rob's Guide to Using VMware Typical application guideline of VMware Workstation and ESX Server** Learning PowerCLI **Networking for VMware Administrators** *VMware vSphere PowerCLI Reference* **VMware Implementation with IBM System Storage DS5000** *VMware vSphere and Virtual Infrastructure Security* **Virtualizing SQL Server With VMware**

You'll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors' proven guidance for enhancing performance can be leveraged by any IT professional virtualizing a demanding Tier 1 application. DevOps represents a powerful new approach to delivering IT services, where software developers and IT operations teams work closely together to deploy projects far more often and more reliably. As pioneers like Google, Amazon, and Netflix have discovered, DevOps can improve efficiency, accelerate delivery, and reduce costs. However, most discussions of DevOps focus on theory rather than implementation, and DevOps raises unique issues in virtualized environments. DevOps for VMware Administrators addresses these issues, offering realistic insights both for implementing DevOps and for applying new tools to maximize its value. The authors also offer extensive hands-on practice with solving realistic problems and improving IT efficiency by utilizing these four tools: Puppet IT automation software for managing infrastructure across its lifecycle, including provisioning, configuration, orchestration, and reporting Chef configuration management tool for writing system configuration "recipes" that streamline server configuration and maintenance and can integrate with cloud-based platforms such as Rackspace and Amazon EC2 to automate provisioning Ansible, the flexible open source toolkit for automating configuration management and orchestration in Unix and Unix-style environments Windows PowerShell for automating tasks and configuration management in Windows environments VMware® Horizon Suite The authoritative guide to delivering end-user services with VMwarE View and VMware Horizon Suite Today, IT professionals must manage stateless, mobile, streamed workspaces delivered across devices ranging from traditional PCs to tablets and smartphones. Using VMware View and VMware Horizon Suite, they can do so—providing flexible end-user services that support any business requirement cost effectively. Now there's a complete guide to planning, configuring, implementing, and integrating VMware Horizon Suite technologies and using them to deliver high-value end-user services in enterprise, managed, and cloud provider environments. This book's deep up-to-date technical content addresses considerations ranging from architecture, deployment, and operations to user experience and support. It offers detailed guidance on integration with VMware View and key third-party technologies. Throughout, it fully reflects the newest VMware View releases, including VMware Horizon Mirage. Relevant, clear, and usable, VMware Horizon Suite contains step-by-step configuration examples, sample scenarios helping you choose the right technologies for your users' needs, and a complete end-user computing design checklist. Coverage includes • Understanding the new end-user service model and how VMware View and VMware Horizon address it • Mastering VMware View 6 and VMware Workspace 1.8 architectures • Leveraging proven installation and implementation techniques • Efficiently operating Connection, Security, and Transfer servers • Managing agents, clients, portals, composers, and personas • Integrating VMware View and Workspace • Implementing operational best practices, such as desktop pools, user data management, and SaaS • Using VMware Mirage to manage desktop images more intelligently and provide a wider spectrum of end-user services • Delivering multimedia within a View desktop environment • Integrating Microsoft Lync with VMware View • Monitoring VMware View and optimizing its performance The start-to-finish guide to virtualizing business-critical SQL Server databases on VMware vSphere 5 By virtualizing business-critical databases, enterprises can drive far more value from existing IT infrastructure. But squeezing maximum performance out of a virtualized database instance is an art as much as a science. This indispensable start-to-finish guide brings together all the techniques, tips, and insights you need to succeed. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. You'll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors' proven guidance for enhancing performance can be leveraged by any IT professional virtualizing a demanding Tier 1 application. Coverage includes • Business cases for database virtualization: consolidation, Database as a Service (DaaS), efficiency, and “SLAs on steroids” • Using the redundancy inherent in virtualization to improve availability • Constructing a careful, conservative implementation plan • Balancing disk, CPU, memory, and network for superior performance • Mastering the five key principles of database storage design • Leveraging memory: SQL MAX, page locking, NUMA, reservations, swapping, large memory pages, and more • Ensuring responsiveness by providing a fast, reliable, low-latency network • Supporting advanced AlwaysOn Failover Cluster Instances and Availability Groups • Baselining physical systems and properly determining resource requirements •

Configuring performance tests from beginning to end • Migrating existing SQL Server databases onto a vSphere platform • Avoiding traps and pitfalls in virtualizing production databases • Managing and monitoring virtualized database instances and resources Describes scripting techniques that use both ESX and Linux commands to manage a virtual infrastructure. The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know. Untuk saat ini Teknologi Informasi berkembang dengan sangat pesat sehingga Solusi Virtualisasi merupakan salah satu inovasi yang saat ini banyak digunakan. Dengan Virtualisasi, semua aset dalam infrastruktur IT anda semakin efisien karena dengan virtualisasi anda juga dapat menjalankan beberapa sistem operasi dalam satu komputer. Jumlah server yang sedikit namun mendapatkan produktifitas yang jauh lebih tinggi, cepat dan mudah dalam melakukan manajemen IT & mudah didalam melakukan pemeliharaan. Menjawab kebutuhan dalam meningkatkan High Availability Server System dan Database Server dengan platform Virtualisasi / Cloud Technology bagi anda pecinta IT pada umumnya dan bagi IT Perusahaan pada khususnya, maka buku ini akan mampu memberikan jawaban mengenai Virtualisasi. Buku ini adalah step by step bagaimana membangun & mengoptimalkan Server System dalam konteks Virtualisasi untuk membangun High Availability Server System sehingga kita dapat mencapai Zero Downtime Server System agar Bisnis Proses perusahaan tidak sampai terganggu jika server mengalami Down. Semoga dengan buku ini dapat memperluas wawasan kita semua pada bidang Virtualisasi pada khususnya dan Teknologi Informasi pada umumnya. Terimakasih kami haturkan teruntuk Pakar IT Nasional – Onno W. Purbo, karena beliau sangat mendukung penulis untuk berbagi ilmu dan sharing berbagai teknologi untuk Indonesia. Executives of IT organizations are compelled to quickly implement server virtualization solutions because of significant cost savings. However, most IT professionals tasked with deploying virtualization solutions have little or no experience with the technology. This creates a high demand for information on virtualization and how to properly implement it in a datacenter. Advanced Server Virtualization: VMware® and Microsoft® Platforms in the Virtual Data Center focuses on the core knowledge needed to evaluate, implement, and maintain an environment that is using server virtualization. This book emphasizes the design, implementation and management of server virtualization from both a technical and a consultative point of view. It provides practical guides and examples, demonstrating how to properly size and evaluate virtualization technologies. This volume is not based upon theory, but instead on real world experience in the implementation and management of large scale projects and environments. Currently, there are few experts in this relatively new field, making this book a valuable resource The book is divided into major sections making it both a step-by-step guide for learning and implementing server virtualization as well as a quick reference. The chapter organization focuses first on introducing concepts and background, and then provides real-world scenarios. Master vSphere automation with this comprehensive reference VMware vSphere PowerCLI Reference, Automating vSphereAdministration, 2nd Edition is a one-stop solutionfor vSphere automation. Fully updated to align with the latestvSphere and PowerCLI release, this detailed guide shows you how toget the most out of PowerCLI's handy cmdlets using real-worldexamples and a practical, task-based approach. You'll learn how tostore, access, update, back up, and secure massive amounts of dataquickly through the power of virtualization automation, and you'llget acquainted with PowerCLI as you learn how to automatemanagement, monitoring, and life-cycle operations for vSphere.Coverage includes areas like the PowerCLI SDK, SRM, vCOPS, andvCloud Air. Plus guidance toward scheduling and viewing automation,using DevOps methodology and structured testing and source controlof your PowerCLI scripts. Clear language and detailed explanationsmake this reference the manual you've been looking for. This book is your complete reference for managing vSphere in aWindows environment, with expert instruction and real-worldapplication. Automate vCenter Server deployment and configuration Create and configure virtual machines, and utilize vApps Monitor, audit, and report the status of your vSphereenvironment Secure, back up, and restore your virtual machines Work with other vSphere components from your PowerCLIscripsts Take control of your PowerCLI scripts through versioning andstructured testing Don't spend another day slogging through routine systemsmanagement — automate it, with this invaluable guide. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. A virtual evolution in IT shops large and small has begun. VMware's ESX Server is the enterprise tool to free your infrastructure from its physical limitations providing the great transformation into a virtual environment--this book shows you how. Use Syngress' proven "How to Cheat methodology to configure and build VMware's ESX Server version 3. This clear, concise guide provides all the information you need to become a virtual whiz! This book will detail the default and custom installation of VMware's ESX server as well as basic and advanced virtual machine configurations. It will then walk the reader through post installation configurations including installation and configuration of VirtualCenter. From here, readers will learn to efficiently create and deploy virtual machine templates. Best practices for securing and backing up your virtual environment are also provided. The book concludes with a series of handy, time-saving command and configuration for: bash shell keystrokes, Linux commands, configuration files, common/proc files, VMware ESX commands, and troubleshooting. • Reap the Benefits of Server Virtualization Realize improved ROI, ensure efficient mergers and acquisitions, and reduce compliance risk exposure through server virtualization and consolidation. • Build a Virtual Machine Create a Gold Master and use your VMlibrary to leverage the power and flexibility of VMware. • Manage Your Virtual Infrastructure Use VMware tools to partition physical servers and manage virtual machines. • Set Up Scripted Installation See how a scripted installation method can be a fast and efficient way to provision ESX hosts. • Master ESX Native Tools Use tools like Esxtop to diagnose performance issues and vmkfstools to import and export • Install and Use VMware Scripting APIs Develop programs to help automate and ease administration—even with a limited background in scripting or programming. • Learn the Fundamentals of a VM Backup VMware ESX ships with three scripts that work together to create a backup and restore system: vmsnap.pl, vmsnap_all.pl, and vmres.pl. • Extend a Cloned Windows VM's Root Partition Use Microsoft's Sysprep utility to extend a newly deployed virtual machine's root partition from the original clone size to a larger size. Lay the foundations for data center virtualization using VMware vSphere 6 and strengthen your understanding of its power About This Book Learn how server virtualization is achieved and how a virtual infrastructure is built using VMware's products and solutions. Design to create a scalable and responsive virtualization platform for hosting the virtual machine workloads of a business. Manage compute, network and storage resources of a virtual infrastructure. Relevant conceptual diagrams, flowcharts and screen-captures enable in-depth comprehension of the concepts. Also, the concise writing style makes this book a very easy read. Who This Book Is For This is a book for any experienced technologist who is new to the realm of Data Center virtualization wanting to find a way to get a head start in learning how to design, implement and manage a modern day datacenter virtualized using VMware's core infrastructure solutions. It could also act a comprehensive reference guide for Infrastructure Architects and System Administrators to aid them in

their day to day activities. This book could easily find its place in reference materials used by professionals for VCP and VCAP certification exams. Keep in mind however that the book is not written to follow as a blueprint for either of the exams. What You Will Learn Understand the architecture of the hypervisor and learn how to install deploy and configure ESXi hosts Find out what forms a VMware Virtual Machine can take and also learn how to create and manage them Familiarize yourself with the concepts of vSphere Storage and learn how to present and manage storage in a vSphere environment Create and manage software switching constructs such as the vNetwork Standard Switch and vNetwork Distributed Switches Monitor the performance of a vSphere environment using tools such as the vCenter Performance Graphs and 'esxtop' Manage SSL certificates in a vSphere environment Upgrade and patch a vSphere environment using vSphere Update Manager In Detail Computer virtualization is a method to enable the running of multiple application workloads on a machine to achieve efficient utilization and reduce the number of physical machines in a data center. This has now become the foundation of many modern day data centers. What began as a technology to virtualize x86 architecture has now grown beyond the limits of a server's hardware and into the realm of storage and network virtualization. VMware is currently the market leader in developing data center virtualization solutions. This book goes into the details of designing and implementing VMware solutions that form the foundation of a VMware infrastructure. The book begins by introducing you to the concepts of server virtualization followed by the architecture of VMware's hypervisor – ESXi and then by its installation and configuration. You then learn what is required to manage a vSphere environment and configure advanced management capabilities of vCenter. Next you are taken through topics on vSphere Networking, Storage, ESXi Clustering, Resource Management and Virtual Machine Management. You will then be introduced to SSL Certificate Management and its use in a vSphere environment. Finally, you will learn about the lifecycle management of a vSphere environment by effectively monitoring, patching and upgrading vSphere components using Update Manager. By the end of the book, you will know how to use VMware's vSphere suite of components to lay the foundation of a modern day virtual infrastructure. Style and approach This is an easy-to-follow guide that will give you everything you need to fully understand the concepts involved in data center virtualization. The screenshots, concept diagrams, and flowcharts included will help you understand the subjects discussed better. Edward L. Haletky's Complete, Solutions-Focused Guide to Running ESX Server 3.5, vSphere, and VMware 4.x Extensively updated and revised, this is the definitive real-world guide to planning, deploying, and managing VMware ESX Server 3.5, VMware vSphere Hypervisor (ESXi), or VMware vSphere 4.x cloud computing in mission-critical environments. Drawing on his extensive experience consulting on enterprise VMware implementations, renowned expert Edward L. Haletky offers a "soup-to-nuts" collection of field-tested best practices and solutions. He illuminates the real benefits, issues, tradeoffs, and pitfalls associated with VMware's newest platforms, using real-world examples that draw upon both VMware and third-party products. This edition features detailed coverage of new vSphere features such as Storage IO Control, Network IO Control, Load-Based Teaming, Distributed Virtual Switches, ESXi, hardware and processors, and a significantly expanded discussion of auditing and monitoring. Haletky offers new or enhanced coverage of VM Hardware, virtual networking, VMsafe, and more. All new coverage is thoroughly integrated into Haletky's insightful discussion of the entire lifecycle: planning, installation, templates, monitoring, tuning, clustering, security, disaster recovery, and more. Haletky consistently presents the most efficient procedures, whether they use graphical tools or the command line. You'll learn how to:

- Assess VMware datacenter and infrastructure hardware requirements
- Understand technical, licensing, and management differences between ESX/ESXi 3.5 and 4.x
- Plan installation for your environment and identify potential "gotchas"
- Select, configure, utilize, and support storage cost-effectively
- Manage key operational issues associated with virtual infrastructure
- Adapt existing network and security infrastructure to virtualization
- Configure ESX from host connections
- Configure ESX Server from Virtual Centers or hosts
- Create, modify, and manage VMs (with detailed Windows, Linux, and NetWare examples)
- Troubleshoot VM issues with eDirectory, private labs, firewalls, and clusters
- Utilize vSphere 4.1's improved Dynamic Resource Load Balancing (DRLB)
- Implement disaster recovery, business continuity, and backup
- Plan for vApps and the future of virtualization VMware ESX and ESXi in the Enterprise has long been the definitive single-source guide to VMware planning, deployment, and management. For today's VMware architects, administrators, and managers, this edition will be even more valuable. Offers techniques, tips, and insights into squeezing maximum performance out of a virtualized database. Best practices, guidance, and tips for virtualizing Microsoft® business critical applications on the VMware vSphere® platform By virtualizing Microsoft's enterprise applications on vSphere, you can drive down costs while migrating toward flexible, low-cost private cloud architectures. This unique guidebook bridges the gap between the Microsoft and VMware worlds, bringing together the deep knowledge, cutting-edge best practices, and practical techniques you need to succeed. Leading experts Matt Liebowitz and Alex Fontana present end-to-end coverage of virtualizing Windows Server 2012 AD domain controllers and failover clusters, Exchange Server 2013, SQL Server 2012, and SharePoint Server 2013. They offer indispensable advice on sizing, architecture, performance, availability, monitoring, and metrics. Throughout, the authors share valuable tips, tricks, and insights from their own experiences. For each Microsoft application, they provide "proof of concept" sample configurations and clearly explain how new features impact virtualization. You'll also find authoritative, up-to-date guidance on licensing and other issues related to ensuring full support from both Microsoft and VMware. Coverage includes
- Evaluating the benefits, risks, and challenges of virtualizing Microsoft business critical applications
- Identifying strategies for success associated with people, processes, and technology
- Reviewing VMware vSphere features most important to virtualizing business-critical applications
- Taking advantage of new virtualization-aware features built in to Windows Server 2012 domain controllers
- Designing and configuring vSphere High Availability (vSphere HA) clusters to run Windows enterprise applications
- Reflecting Exchange Server 2013's new architecture to maximize its performance in virtualized environments
- Leveraging new SQL Server 2012 features to simplify the delivery of high availability on virtual servers
- Reducing SQL Server 2012 licensing costs through virtualization
- Planning, designing, and deploying virtualized SharePoint Server 2013 environments

If you want to gain insight into the real-world uses of VMware ESX and ESXi, this book provides scores of step-by-step solutions for working with these products in a wide range of network environments. You'll not only learn the basics -- how to pool resources from hardware servers, computer clusters, networks, and storage, and then distribute them among virtual machines -- but also the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. In addition to the recipes, VMware Cookbook includes background information to help you determine your virtualization needs. You'll come to view VMware as part of the real environment, alongside operating systems, storage, and logical and physical network components. Follow best practices for installing VMware in your environment Discover how to secure and monitor your network Understand disk storage implementation and configuration Learn resource management using the distributed resource scheduler, shares, and resource pools Configure logical and physical networks Learn how to clone and migrate servers Gain valuable tips for configuration and fine-tuning Many resources can teach you about virtualization and the basics of VMware. This book is for system administrators who are ready to go beyond an introduction. In this IBM® Redpaper™, we compiled best practices for planning, designing, implementing, and maintaining IBM Midrange storage solutions. We also compiled configurations for a VMware ESX and VMware ESXi Server-based host environment. Setting up an IBM Midrange Storage Subsystem is a challenging task and our principal objective in this book is to provide you with a sufficient overview to effectively enable storage area network (SAN) storage and VMware. There is no single configuration that is satisfactory for every application or situation. However, the effectiveness of VMware implementation is enabled by careful planning and consideration. Although the compilation of this publication is derived from an actual setup and verification, we did not stress test or test for all possible use cases that are used in a limited configuration assessment. Because of the highly customizable nature of a VMware ESXi host environment, you must consider your specific environment and equipment to achieve optimal performance from an IBM Midrange Storage Subsystem. When you are weighing the

recommendations in this publication, you must start with the first principles of input/output (I/O) performance tuning. Remember that each environment is unique and the correct settings that are used depend on the specific goals, configurations, and demands for the specific environment. This Redpaper is intended for technical professionals who want to deploy VMware ESXi and VMware ESX Servers with IBM Midrange Storage Subsystems. VMware ESX Server in the Enterprise Planning and Securing Virtualization Servers The Most Complete, Practical, Solutions-Focused Guide to Running ESX Server 3 VMware ESX Server in the Enterprise is the definitive, real-world guide to planning, deploying, and managing today's leading virtual infrastructure platform in mission-critical environments. Drawing on his extensive experience consulting on large-scale ESX Server implementations, Edward L. Haletky brings together an unprecedented collection of tips, best practices, and field-tested solutions. More than any other author, he illuminates the real issues, tradeoffs, and pitfalls associated with ESX Server—and shows how to make the most of it in your unique environment. Haletky covers the entire lifecycle: planning, installation, system monitoring, tuning, clustering, security, disaster recovery, and much more. Throughout, he supports his recommendations with examples from real-world deployments. He also provides detailed checklists for handling crucial issues such as caching, networking, storage, and hardware selection. Many of his techniques and practices apply to all current virtualization platforms, not just ESX Server. This book will be an indispensable resource for every network architect, administrator, and IT professional who works with virtual servers. ESX Server newcomers will find the soup-to-nuts introduction they desperately need; experienced users will find an unparalleled source of field-tested answers and solutions. In this book, you'll learn how to:

- Identify key differences between ESX v3.x.y and ESX v2.5.x and their implications
- Perform a complete installation—with automated scripting techniques and samples
- Efficiently audit, monitor, and secure ESX Server
- Discover SAN storage pitfalls and solutions—with detailed guidance for specific SANs, switches, and fibre-channel adapters
- Understand ESX Server networking: NIC teaming, vSwitches, network lag, and troubleshooting
- Configure ESX Server via the Management User Interface, Virtual Center client, and command line interface
- Install Windows, Linux, and NetWare VMs: prepare media images, place configuration files, handle sizing and swap files, and more
- Use Dynamic Resource Load Balancing to consistently achieve utilization goals
- Implement effective backup and disaster recovery procedures

Edward L. Haletky owns AstroArch Consulting, Inc., a consultancy specializing in virtualization, security, and networking. He has been rated by his peers on the VMware Discussion Forums as a “virtuoso” for his work in answering VMware security and configuration questions. Prior to establishing AstroArch, Haletky was a member of Hewlett-Packard's Virtualization, Linux, and High-Performance Technical Computing teams. He holds a degree in Aeronautical and Astronautical Engineering from Purdue University. This book will detail the default and custom installation of VMware's ESx server as well as basic and advanced virtual machine configurations. It will also discuss the requirements for a server virtualization and consolidation project and the cost savings surrounding such an effort. Furthermore, the book will provide a thorough understanding of the benefits of a virtual infrastructure and a comprehensive examination of how VMware eases administration and lowers overall IT costs. Lastly, the book delivers a thorough understanding of the virtual evolution which is underway in many IT organizations and how the reader will benefit from shifting from the physical to a virtual

- * A detailed resource on the default and custom installation of VMware's ESx server
- * Covers all the requirements for a server virtualization and consolidation project and the cost savings surrounding such an effort
- * Delivers a thorough understanding of the virtual evolution occurring in the IT industry

Every year, datacenter managers must deliver more services faster, with greater flexibility. They must efficiently handle soaring amounts of data, and unprecedented levels of complexity. And they must do all this with lower budgets and fewer resources. Datacenter virtualization with VMware's vSphere® 5 is the best way to achieve these goals and to accelerate your transition to cloud services. VMware vSphere® 5: Building a Virtual Datacenter brings together all the practical knowledge you need to evaluate, plan, implement, and manage vSphere 5 in your datacenter environment. Top datacenter virtualization consultants Eric Maillé and René-François Mennecier begin by introducing vSphere 5 from the viewpoint of the datacenter manager and professional. They present essential definitions, advantages, and functions; review vSphere 5's architecture; and introduce core components such as vCenter Server and ESXi 5.0. Next, Maillé and Mennecier turn to implementation, presenting detailed examples, schemas, and best practices drawn from their extensive experience. They share practical insights into budgeting, scheduling, and planning; choosing the right architecture; and integrating vSphere with existing datacenter elements, including servers, storage, clusters, network infrastructure, and business continuity plans. They conclude with a start-to-finish case study: a datacenter virtualization project designed to support specific business objectives. Coverage includes

- Assessing the potential benefits of datacenter virtualization in your environment
- Organizing and managing a smooth migration to the virtualized datacenter
- Anticipating specific challenges and risks associated with datacenter virtualization
- Making tradeoffs to optimize stability, elasticity, scalability, and cost
- Choosing the best installation/configuration options for your environment
- Effectively linking vSphere 5 virtualization to existing datacenter elements
- Driving more value from vSphere 5's powerful new datacenter features
- Providing storage to efficiently support your hosted VMs, now and in the future
- Managing limited memory and other server constraints
- Leveraging new options for service continuity and high availability
- Using backup architecture as a lever to reduce costs

VMware delivers the next wave in virtualization software. Server and Player are free and offer huge savings in time and resources. Many professional IT users now enjoy the opportunities virtualization opens up. If you've ever wanted to understand the buzz around virtualization then this book is for you. For both the professional and the personal user, it gives a solid overview including all the necessary user tips. Offering a great introduction into this complex area, this book will answer all your questions. From installation to the choice of the right hardware, from creation to configuration, it's all inside. Basics, concepts, and designs are clearly presented in a way that is easy to understand. Whether you are a system administrator or engineer, a user of VMware GSX, or simply interested in virtualization, this book is all you need.

About the author: Dennis Zimmer is a senior consultant in infrastructure and storage for Mightycare Solutions GmbH in Germany. His specializes in delivering virtualization solutions for complex corporate environments. He is a VMware Certified Professional and author of other successful books on virtualization such as "VMware und Microsoft Virtual Server" and "VMware Server und VMware Player" published in German by Galileo Press. Developing software and testing within virtual machines provides you with countless advantages in terms of automation, stability, disaster recovery, and overall code quality. With this book as your guide, you get the tools you need to create a fleet of virtual machine images that you can use to build your own secure applications. Beginning with the basics of virtualization and its place within the development and testing environment, the book then delves into the APIs and provides a deep, example-rich reference to their function and purpose. VMware expert Eric Hammersley shares his vast experience in using VMware in the development process and shows you how you can streamline your own development with the new VMware Server. You'll learn to integrate VMware Server into your existing environment using CruiseControl.NET and Visual Studio® Team System as examples. Plus, you'll get a clear understanding of virtual hardware, networks, and the server console, and find out how to build base images. You'll discover the benefits of software development and testing within virtual machines and the advantages they have to offer. This will help you rapidly deploy new machines, set up multiple platforms on a single machine, and dramatically increase the utilization of your hardware. What you will learn from this book

Steps on how to install and configure VMware Server Tips to follow when creating development base images Methods on how to organize your image libraries and prepare them for use Best practices for using VmCOM, VmPerl, and the Programming API How to integrate VMware Server into your existing environment and automate its functionality Ways to leverage VMware Server to provide banks of testing machines on demand Who this book is for This book is for software developers, lead developers, and software testing engineers who want to integrate VMware Server into their existing systems in order to create and test applications on various platforms. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues

technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job. Flexible and efficient, VMware ESX is the tool of choice for enterprise data centers looking to make the most of the latest virtualization methods. However, to date, no single manual provides users with a systematic way to understand and take full advantage of all its features and options. Novel Solutions for Every Level of the IT Chain VMware ESX Essentials in the Virtual Data Center answers that need. Written by pioneers and established experts in the field of virtualization with years of hands-on experience, it details the product and outlines innovative ways to use virtualization within the organization. With novel solutions for every level of the IT chain, this text is a complete guide to the design, operation, and management of the ESX product. Featuring technical information, best practices, and technology breakdowns needed to answer real business challenges, this succinct volume – Shows how to install ESX, either manually or using an automated method, detailing the various key performance optimizations that can make installation more efficient Describes ways to further automate and enhance the ESX environment, and make it more extensible with APIs, SDKs, programming extensions, and VirtualCenter plug-ins Explains the latest ESX features fully Details the architecture and background of ESX through the use of diagrams Uses Real-World Experience to Slash Costs and Increase Efficiency This text covers VMware VI3, the most widely distributed server virtualization product on the market, from 3.0 to 3.5, and the most recently announced embedded version of ESXi. It will enable IT organizations to save hardware costs and make server deployments, provisioning, and management more efficient. Able to make use of the full benefits of virtualization, they will gain the flexibility to create solutions and the freedom that comes with not being locked into a single vendor's hardware solution. A plain-English guide to the market-leading virtualization and cloud computing technology With virtualization, a single server can host dozens or hundreds of virtual machines running a variety of operating systems, and even hook them together in a virtual network or cloud infrastructure. This practical guide shows you how to create a virtual system using the VMware vSphere environment. You'll find all the information you need to understand, design, and deploy one—without getting overwhelmed with technical detail. And once you're up and running, this book is the perfect reference for maintenance and troubleshooting issues. Introduces you to virtualization and VMware's virtualization/cloud computing technology, the most recent version is VMware vSphere Shows you how to design a vSphere environment Covers installation, deployment, management, maintenance, and troubleshooting Provides what IT managers and system administrators need to roll out their first virtualized or cloud infrastructure, or to get up to speed on VMware's technology Get up and running on the cloud with VMware vSphere For Dummies! Dengan Virtualisasi, semua aset dalam infrastruktur IT anda semakin efisien karena dengan virtualisasi anda juga dapat menjalankan beberapa sistem operasi dalam satu komputer. Jumlah server yang sedikit namun mendapatkan produktifitas yang jauh lebih tinggi, cepat dan mudah dalam melakukan manajemen IT & mudah didalam melakukan pemeliharaan. Menjawab kebutuhan dalam meningkatkan High Availability Server System dan Database Server dengan platform Virtualisasi / Cloud Technology bagi anda pecinta IT pada umumnya dan bagi IT Perusahaan pada khususnya, maka buku ini akan mampu memberikan jawaban mengenai Virtualisasi. Buku ini adalah step by step bagaimana membangun & mengoptimalkan Server System dalam konteks Virtualisasi untuk membangun High Availability Server System sehingga kita dapat mencapai Zero Downtime Server System agar Bisnis Proses perusahaan tidak sampai terganggu jika server mengalami Down. Dalam buku ini juga anda akan dipandu dalam membangun Disaster Recovery dalam lingkungan Virtualisasi VMware dengan metode BackUp Replication. Metode ini telah digunakan penulis dalam implementasi DRC on Virtualization pada Project Pemkot Surabaya dan sejumlah Big Project lainnya. Semoga dengan buku ini dapat memperluas wawasan kita semua pada bidang Virtualisasi pada khususnya dan Teknologi Informasi pada umumnya. Starting out with VMware Server means being unsure about what to do, how to start and how to get the most out of it; preparing for success, and avoiding failure. There is enormous satisfaction in seeing the change succeed, overcoming the obstacles in the way to reap the rewards and benefits that using VMware Server brings. Don't embark on the change unprepared or it will be doomed to fail. But it's my guess that since you're reading this, the forces of change have already been set in motion, and there is no going back. What you need is the resources, knowledge, and confidence required to overcome uncertainty and face VMware Server changes. The job can be accomplished by having a roadmap and experiences from previous VMware Server changes. This is where this book is your guide and roadmap. You will be able to relate to the experiences laid out in its resources covering all aspects of any VMware Server initiative. Use it, and its INCLUDED resources, to get a strong foundation. It will provide aid, advice, blueprints, road maps en templates when you need it most. The book reflects the reality that the fastest way to learn about VMware Server is from experiences, knowing about the ins and outs of employment and career developments, trends and popularity, relevant knowledge and patents AND the INCLUDED downloadable resources on VMware Server Blueprints, Templates and Presentations. Whatever makes you decide to take on the change: growing business initiatives or career development plans, you are ready for a VMware Server Change. The book and accompanying toolkit is your gateway and will fully support your commitment in moving forward and energize yourself and others. As part of the highly acclaimed Mastering series from Sybex, this book offers a comprehensive look at VMware vSphere 4, how to implement it, and how to make the most of what it offers. Coverage Includes: Shows administrators how to use VMware to realize significant savings in hardware costs while still providing adequate "servers" for their users Demonstrates how to partition a physical server into several virtual machines, reducing the overall server footprint within the operations center Explains how VMware subsumes a network to centralize and simplify its management, thus alleviating the effects of "virtual server sprawl" Now that virtualization is a key cost-saving strategy, Mastering VMware vSphere 4 is the strategic guide you need to maximize the opportunities. Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6.7 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6.7 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter. This book is a practical, hands-on guide that will help you learn everything you need to know to administer your environment with VMware vCenter Server. Throughout the book, there are best practices and useful tips and tricks which can be used for day-to-day tasks. If you are an administrator or a technician starting with VMware, with little or no knowledge of virtualization products, this book is ideal for you. Even if you are an IT professional looking to expand your existing environment, you will be able to use this book to help you improve the management of these environments. IT managers will find it helpful in terms of improving cost efficiency, ensuring required levels of service and utilising its excellent reporting abilities. The second edition of Rob's Guide to Using VMWare continues where the author stopped with the first edition. New topics covered in the book are VMWare ACE and VMWare GSX Server. The book now also contains information on VMWare and Linux. This new edition features an overview of the new version 5 of VMWare Workstation. Many topics which were included in the first edition have been updated. Compact and portable reference guide for quick answers to VMware vSphere If you're looking to migrate to the newest version of VMware vSphere, this concise guide will get you up to speed and down to business in no time. If you're new to VMware vSphere, this book is for you too! The compact size of this quick reference makes it easy for you to have by your

side—whether you're in the field, server room, or at your desk. Helpful elements for finding information such as thumb tabs, tables of contents with page numbers at the beginning of each chapter, and special headers puts what you need at your fingertips, fast. No matter your skill level, this book's focus on essential day-to-day tasks for administering vSphere make it a handy reference for anyone. Covers the highly anticipated release of VMware vSphere Allows you to hit the ground running with the latest VMware vSphere software Provides you answers on the spot with concise, no-nonsense instruction Designed for busy IT professionals, this instant reference is the perfect go-to resource. Server Sprawl and escalating IT costs have managers and system administrators scrambling to find ways to cut costs and reduce Total Cost of Ownership of their physical infrastructure. Combining software applications onto a single server, even if those applications are from the same software vendor, can be dangerous and problems hard to troubleshoot. Virtualization allows you to consolidate many servers onto a single physical server reducing hardware, electrical, cooling, and administrative costs. These virtual servers run completely independent of each other so if one crashes the other are not affected. Planning and implementing a server consolidation is a complex process. This book details the requirements for such a project, includes sample forms and templates, and delivers several physical to virtual migration strategies which will save both time and costs. Readers of this book will easily be able to plan and deploy VMware, Microsoft Virtual Server, and Xen. Create a virtual network to exchange information or provide a service to other virtual machines or computers Use virtualization to support removable media such as CD or DVD optical disks Reduce server costs, administration overhead, and complexity Learn to leverage the power of PowerCLI to automate your VMware vSphere environment with ease About This Book This is first book on the market that will enlighten you on the latest version of PowerCLI and how to implement it Effectively manage virtual machines, networks, and reports with the latest features of PowerCLI A comprehensive and practical book on automating VMware vSphere Who This Book Is For This book is ideal for you if you want to learn how to automate your VMware vSphere or vCloud infrastructure by getting the most out of PowerCLI. It's assumed that you have some experience in administrating a vSphere or vCloud environment. Knowledge of Microsoft's Windows PowerShell is not a prerequisite. What You Will Learn Explore PowerShell and PowerCLI cmdlets and their output objects See how to manage virtual machines and work with virtual networks Manage vCloud Director from PowerCLI Use Site Recovery Manager from PowerCLI to create a disaster recovery solution Manage NSX and vRealize Automation using REST API with PowerCLI Create and configure vSphere HA and DRS clusters Use vSphere Update Manager with PowerCLI to create patch baselines and scan hosts Explore reporting techniques to retrieve log files In Detail VMware vSphere PowerCLI, a free extension to Microsoft Windows PowerShell, enables you to automate the management of a VMware vSphere or vCloud environment. This book will show you how to automate your tasks and make your job easier. Starting with an introduction to the basics of PowerCLI, the book will teach you how to manage your vSphere and vCloud infrastructure from the command line. To help you manage a vSphere host overall, you will learn how to manage vSphere ESXi hosts, host profiles, host services, host firewall, and deploy and upgrade ESXi hosts using Image Builder and Auto Deploy. The next chapter will not only teach you how to create datastore and datastore clusters, but you'll also work with profile-driven and policy-based storage to manage your storage. To create a disaster recovery solution and retrieve information from vRealize Operations, you will learn how to use Site Recovery Manager and vRealize Operations respectively. Towards the end, you'll see how to use the REST APIs from PowerShell to manage NSX and vRealize Automation and create patch baselines, scan hosts against the baselines for missing patches, and re-mediate hosts. By the end of the book, you will be capable of using the best tool to automate the management and configuration of VMware vSphere. Style and approach This comprehensive book will teach system administrators everything about PowerCLI 6 and how to utilize it to automate VMware vSphere. Complete Hands-On Help for Securing VMware vSphere and Virtual Infrastructure by Edward Haletky, Author of the Best Selling Book on VMware, VMware ESX Server in the Enterprise As VMware has become increasingly ubiquitous in the enterprise, IT professionals have become increasingly concerned about securing it. Now, for the first time, leading VMware expert Edward Haletky brings together comprehensive guidance for identifying and mitigating virtualization-related security threats on all VMware platforms, including the new cloud computing platform, vSphere. This book reflects the same hands-on approach that made Haletky's VMware ESX Server in the Enterprise so popular with working professionals. Haletky doesn't just reveal where you might be vulnerable; he tells you exactly what to do and how to reconfigure your infrastructure to address the problem. VMware vSphere and Virtual Infrastructure Security begins by reviewing basic server vulnerabilities and explaining how security differs on VMware virtual servers and related products. Next, Haletky drills deep into the key components of a VMware installation, identifying both real and theoretical exploits, and introducing effective countermeasures. Coverage includes • Viewing virtualization from the attacker's perspective, and understanding the new security problems it can introduce • Discovering which security threats the vmkernel does (and doesn't) address • Learning how VMsafe enables third-party security tools to access the vmkernel API • Understanding the security implications of VMI, paravirtualization, and VMware Tools • Securing virtualized storage: authentication, disk encryption, virtual storage networks, isolation, and more • Protecting clustered virtual environments that use VMware High Availability, Dynamic Resource Scheduling, Fault Tolerance, vMotion, and Storage vMotion • Securing the deployment and management of virtual machines across the network • Mitigating risks associated with backup, performance management, and other day-to-day operations • Using multiple security zones and other advanced virtual network techniques • Securing Virtual Desktop Infrastructure (VDI) • Auditing virtual infrastructure, and conducting forensic investigations after a possible breach informit.com/ph www.Astroarch.com "Now that virtualization has blurred the lines between networking and servers, many VMware specialists need a stronger understanding of networks than they may have gained in earlier IT roles. Networking for VMware administrators fills this crucial knowledge gap. Writing for VMware professionals, Christopher Wahl and Steve Pantol illuminate the core concepts of modern networking, and show how to apply them in designing, configuring, and troubleshooting any virtualized network environment"--Page 4 of cover There has never been a VMware manual like this. VMware 96 Success Secrets is not about the ins and outs of VMware. Instead, it answers the top 96 questions that we are asked and those we come across in forums, our consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. This guidebook is also not about VMware best practice and standards details. Instead it introduces everything you want to know to be successful with VMware. A quick look inside of the subjects covered: Several Operating Systems on One VMware Virtual Machine AiNow, That's Multitasking!, The Two Worlds of VMware Fusion, A Free OS Software Known as CentOS VMware, Enjoying New Ubuntu Features with Ubuntu 7.04 VMware, A How-to's Of Vmware Converter, Can Ubuntu Be Installed on your VMWare Player?, Methodical Understanding of VMware ESX, Where to find the VMware Any-Any Patch, VMware Workstation 6.0, the Sixth Generation, How to Uninstall VMware Leftover Registry Entries, VMware GSX Upgrades: Providing New Fixes and Improving Virtual Performance, What is VMWare IPO?, Understanding VMware Config Files, Understanding VMWare Server for Linux, Benefits and Risks of Using VMware Beta, Top VMware Performance Enhancer Tips, VMware Server and USB 2.0 Enabling High-Speed Data Transfers in a Virtual Environment, Fuss-free Conversion with VMware Converter, An Overview of VMware Cluster Set-up, Does Linux Stand a Good Position on VMware, VMware P2V: Tools for Cloning the Physical to the Virtual, Fedora: A New Offering for Vmware, VMware 5.5: The Power of Virtualization at the Hands of the User, An Exciting New Converter Offering from Vmware, How to Enable Accelerated VMware 3D, Basic Need to Know about the Vmware Console, All about VMware Server, The VMware Workstation Version 6.0 and its Unmatched Features, Beneficial Features of VMware 3, Understanding the VMware Client, Server and Master, VMware and Vista: Working Together in Perfect Harmony, What is a VMWare Server Console?, Guides for VMware Install Server 1.0 on Ubuntu 6.06 LTS, VMWare.com: Your One Stop Site, How to Work Perfectly with the VMWare Tools, VMware Bridged Networks: Protecting the Entire Network from System Faults, VMware ESX 3: The Complete Hypervisor of the Virtual Environment, VMware Support: Delivering Beyond Expectations, VMware

(www.VMware.com): Providing a Unique Alternative for Optimizing Business Operations, Steps on Setting-up Mac OSX86 VMware on a Virtual Machine, Familiarizing Your Way through a VMware CMD, and much more... Detailing the design and deployment of a VMware ESX Server environment, and written from the practical experience of proven VMware engineers, this book provides IT architects with the insight needed to tackle tough design issues such as ESX Server security, network and SAN design, host hardware selection, guest selection and configuration, management tool selection, ESX performance optimizations, and automated installs and provisioning. A linear progression is provided, starting at the basic architecture of ESX server and then moving on to server configurations, design alternatives for hardware, SAN configuration and management tools, the creation of guest operating systems, and strategy development for implementing this technology into a specific environment. Advanced topics such as unattended installs, integration with network management software, configuration options for high availability, and disaster recovery scenarios are also addressed.

- [Virtualizing SQL Server With VMware](#)
- [Professional VMware Server](#)
- [VMware Cookbook](#)
- [Implementing VMware VCenter Server](#)
- [VMware Server VMware Player](#)
- [VMware VSphere 5 Administration Instant Reference](#)
- [Virtualizing SQL Server With VMware](#)
- [The Best Damn Server Virtualization Book Period](#)
- [Advanced Server Virtualization](#)
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