

# Virtualizing Oracle® Databases on vSphere®

# Kannan Mani Don Sullivan

Foreword by Chris Williams, Global Practice Director Data Center Consulting, Dimension Data



# <u>Virtualizing Oracle Databases On Vsphere Vmware Press</u> <u>Technology</u>

**Edward Whalen** 

#### Virtualizing Oracle Databases On Vsphere Vmware Press Technology:

Virtualizing Oracle Databases on vSphere Kannan Mani, Don Sullivan, 2014-10-15 The start to finish guide to virtualizing business critical Oracle Software and Databases on VMware vSphere Virtualizing large scale Oracle software and databases on vSphere can deliver powerful scalability availability and performance benefits Recognizing this opportunity thousands of organizations are moving to virtualize Oracle However reliable best practices have been difficult to find and database and virtualization professionals often bring incompatible perspectives to the challenge Virtualizing Oracle Databases on vSphere is the first authoritative comprehensive and best practice guide to running Oracle on VMware platforms Reflecting a deep understanding of both Oracle and vSphere this guide is supported by extensive in the field experience with the full spectrum of database applications and environments Both a detailed reference and a practical cookbook it combines theory and practice and offers up to date insights for the entire lifecycle supported by case studies Kannan Mani and Don Sullivan fully address architecture performance design sizing and high availability Focusing on current versions of Oracle and vSphere they highlight the differences between ESX ESXi 4 x and 5 x wherever relevant To deliver even more value they provide extensive online resources including easy to adapt scripts and expert how to videos Coverage includes Understanding the DBA s expanded role in virtualized environments and the emergence of the vDBA vRACDBA and Cloud DBA Identifying your best opportunities to drive value from virtualizing Oracle Anticipating challenges associated with virtualizing Oracle based Business Critical Applications on vSphere Using VMware to overcome ongoing database deployment and management problems Protecting your virtualized database environment with vSphere's high availability capabilities Designing databases to achieve scalability on demand maximize availability consolidate servers and improve compliance Implementing best practices for memory storage and database layout Demystifying the impact of virtualization on Oracle support and licensing Using VMware Site Recovery Manager SRM to accelerate disaster recovery by seamlessly integrating VM and storage failover Streamlining provisioning and taking advantage of opportunities to automate Virtualizing SOL Server with VMware Michael Corey, Jeff Szastak, Michael Webster, 2014-07-23 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 Exam Ref 70-341 Core Solutions of Microsoft Exchange Server 2013 (MCSE) Paul Robichaux, Bhargav Shukla, 2015-04-06 Prepare for Microsoft Exam 70 341 and help demonstrate your real world mastery of the skills needed to deliver effective Microsoft Exchange Server 2013 solutions Designed for experienced IT pros ready to advance their status Exam Ref focuses on the critical thinking and decision making acumen needed for success at the MCSE level Focus on the expertise measured by these objectives Plan install configure and manage the transport role Install configure and manage the mailbox role Plan install configure and manage client access Design and manage an Exchange infrastructure This Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Provides exam preparation tips written by Exchange Server MVPs Assumes you have significant experience managing Exchange Server in an enterprise messaging environment Virtualizing SOL Server with VMware Michael Corey, Jeff Szastak, Michael Webster, 2014 Offers techniques tips and insights into squeezing maximum performance Virtualize Oracle Business Critical Databases Charles Kim, George Trujillo, Steven out of a virtualized database Jones, Sudhir Balasubramanian, 2014-06-08 Virtualize Oracle Business Critical Databases October 2018 Update This book is a single source of information for an Oracle DBA to understand the benefits of virtualization and how to effectively deploy Oracle Databases on VMware s SDDC platform This book is targeted for DBAs looking at implementing Oracle on a virtualized infrastructure Key topics include deployment scaling troubleshooting and performance tuning The authors Charles Kim George Trujillo Steven Jones and Sudhir Balasubramanian have spent a number of years focusing on virtualizing Tier One high performance Oracle platforms The authors include VMware VCPs VMware vExperts as well as an Oracle ACE Oracle ACE Director and hold certifications in the Oracle stack Imagine a world where your system administrator s provisions a fully functional Linux server that is patched with all the up to date kernel parameters updated device drivers and updated configurations in 1 hour The time that you make the request to the time that you get access to a server that has a

fully configured Red Hat 6 7 or Oracle Linux 6 7 environment is within a couple of hours On top of all this the build is consistent and reliable every time This should be a realistic goal for most companies today and this book can guide you along Oracle on VMware Bert Scalzo, 2008 Successfully meeting the challenges of combining VMware and Oracle this comprehensive reference provides a broad spectrum of technological recommendations that demonstrate how to reliably and consistently achieve optimal configuration and maximum performance for any virtualized Oracle database scenario The guide includes the best practices for virtualized servers suggested virtualization server configuration and recommendations for client operating system configuration for Oracle in a virtualized world With real world examples and highly applicable advice this handbook also details the complexities of designing configuring maintaining and tuning Oracle database deployments making it a complete compendium for keeping virtualized Oracle databases in top form Implementation in VSphere 5.0 Mostafa Khalil, 2012 Annotation The more important VMware virtualized infrastructure becomes the more important virtualization storage becomes In this book one of VMware's leading experts completely demystifies the black box of vSphere storage and provides illustrated step by step procedures for performing virtually every task associated with it Storage Implementation in VSphere 5. 0 Mu??afá Khalil,Muòsòtafâa Khalåil,2012 Oracle VM Implementation and Administration Guide Edward Whalen, 2011-08-05 vSphere 4 Dennis Zimmer,2010 Master the Powerful Virtualization Tools in Oracle VM Set up and maintain a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide Oracle VM Implementation and Administration Guide contains key virtualization concepts practical instructions examples and best practices Find out how to design Oracle VM server farms build and deploy virtual machines handle provisioning and cloning and work with Oracle VM Manager Monitoring tuning and security techniques are also covered in this comprehensive volume Install configure and manage all Oracle VM components Plan size and set up Oracle VM server farms and server pools Control resources from Oracle Enterprise Manager Grid Control Oracle VM Manager and Oracle VM Command Line Interface Govern network drives and virtual storage using Oracle VM tools Create virtual machines manually or from Oracle library templates Convert existing virtual machines on other systems to Oracle VM virtual machines Generate virtual machine clones that run on multiple server pools Maintain guest operating systems and software using Oracle Enterprise Manager Grid Control s Oracle VM Management Pack Oracle VM Manager 2.1.2 Tarry Singh, 2009-07-15 Manage a Flexible and Elastic Data Center with Database 11q New Features for DBAs and Developers is a comprehensive example laden review of the most significant new features and improvements offered by the latest release of Oracle Corporation's flagship database product Learn what's new in Oracle that really counts See actual examples and test run output Make sound decisions on new feature adoption Sift the gold from the silt and discover which new features of the latest release of Oracle's flagship database product are really worth

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DB2 Virtualization Whei-Jen Chen, Jason Chan, Olaf Mueller, Malcolm Singh, Tapio Väättänen, IBM Redbooks, 2009-11-25 Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers IBM the first company that developed and made available the virtual technology in 1966 offers advanced powerful reliable and cost saving virtualization technologies in various hardware and software products including DB2 for Linux UNIX and Windows This IBM Redbooks publication describes using IBM DB2 9 with server virtualization We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market Following the virtualization concept we describe in detail the setup configuration and managing of DB2 with three leading server virtualization technologies IBM Power SystemsTM with PowerVMTM VMware Hyper V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2 We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies In addition we discuss the DB2 features and functions that can take advantage of using server virtualization These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book This book also includes a list of best practices from the various tests performed while using these virtualization technologies These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies Mastering VMware vSphere 4 Scott D. Lowe, 2009-08-18 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 Oracle VM 3 Cloud Implementation and Administration Guide, Second Edition Edward Whalen, Erik Benner, Nic Ventura, 2017-09-22 Master Cloud building with Oracle VM 3 installation configuration and maintenance Set up configure and manage a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide The book shows step by step how to size servers for Oracle VM choose and deploy virtualization hardware and manage the environment as the foundation for a private cloud infrastructure Real world examples and valuable best practices are featured throughout Oracle VM 3 Cloud Implementation and Administration Guide lays out key virtualization concepts and clearly explains every aspect of Oracle VM architecture From there you will learn how design server farms build and maintain virtual machines handle provisioning and cloning work with Oracle VM Manager and incorporate solid security procedures Advanced topics such as Disaster Recovery design and implementation Cloud management with Oracle Enterprise Manager Cloud Control and advanced storage and network integration aspects are fully covered Features tips techniques and tools for optimizing Oracle products on Oracle VM Contains expert hands on advice on tackling the most common challenges Written by a team of Oracle professionals with extensive VM experience Expert Consolidation in Oracle Database 12c Martin Bach, 2014-01-23 Expert Consolidation in Oracle Database 12c is your key to reducing data management costs and increasing data center efficiency Consolidation and cloud computing are converging trends sweeping the industry The same technologies enabling cloud computing enable consolidation as well leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation Yet the consolidation process can be a long and winding road Success requires planning and consideration to the impacts on supporting infrastructure Expert Consolidation in Oracle Database 12c guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle's database management system You'll learn to identify candidates for consolidation and to recognize instances that are best left stand alone The book guides in working with clustered systems and ASM storage in the consolidated environment Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard Always the goal is to drive towards a cost effective environment that is efficient both in technology and people Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency Oracle Database 12c Install. Configure & Maintain Like a Professional Ian Abramson, Michael Abbey, Michael Malcher, Michael J. Corey, 2013-09-25

Annotation Master the Fundamentals of Oracle Database 12cFilled with easy to follow tutorials this Oracle Press guide provides detailed coverage of core database concepts the role of the administrator and enterprise database capabilities Oracle Database 12c Install Configure Maintain Like a Professional walks you through database configuration administration programming backup and recovery and high availability You ll get in depth introductions to SQL and PL SQL as well as important information on managing large databases and using Oracle's engineered systems. This essential beginner s resource features Critical Skills Lists of specific skills covered in each chapter Projects Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks Quick self assessment sections to check your progress Ask the Expert Q A sections filled with helpful tips Notes Extra information related to the topic being covered Mastery Checks Chapter ending guizzes to test your knowledge **Vsphere High Performance Essentials** Christian Stankowic, 2016-01-29 Improve the performance of VMware vSphere using this fast paced guideAbout This Book Design configure and monitor your virtual landscape to run performance intensive workloads Implement a reliable and high performance network for virtual infrastructures with confidence Investigate and eliminate virtual machine performance issuesWho This Book Is ForIf you re a system administrator who has some experience with VMware vSphere but would like a quick guide to be able to identify and fix performance issues in your vSphere systems then this book is for you What You Will Learn Choose the right hardware and server components suitable for high performance scenarios Adopt availability and automatic load balancing in your virtual infrastructure Understand and monitor CPU and memory resources Monitor performance on the vCenter ESXi and virtual machine levels Configure storage resources to achieve greater performance Incorporate latency and performance sensible networking Tune and tweak common guest operating systemsIn DetailVMware vSphere is all the components and operating system that comes together to make VMware's enterprise virtualization platform unique When running enterprise driven application workloads the VMware vSphere family has become a preference of many developers The vSphere platform is designed to work with numerous servers and infrastructure core components to create virtualized platforms and or a complete cloud computing fabrics This book will guide you through tuning tweaking and optimizing vSphere in order to improve the performance of your systems It will also help you identify and fix common performance bottlenecks Starting with planning high performance infrastructure setups the book covers the core concepts of cluster setups such as resource pools DRS and availability options along with CPU virtualization concepts Next it covers the management of physical and virtual memory mechanisms swapping and ballooning Moving on you ll get an understanding of how vCenter Server can assist you with recognizing performance issues and how to utilize advanced technologies such as Storage I O Control and vSphere Flash Read Cache to tune storage resources Next you ll learn to implement a reliable and high performance network for virtual infrastructures Finally the book shows you how esxtop and resxtop can provide advanced metrics to detect performance issues and how you can optimize storage and network resources inside virtual

machines Style and approachThis book is a step by step guide but at a fast pace It explains high performing VMware vSphere infrastructure setups and workloads through real world examples Pro Oracle Database 11g RAC on Linux Julian Dyke, Steve Shaw, Martin Bach, 2011-01-11 Pro Oracle Database 11g RAC on Linux provides full life cycle guidance on implementing Oracle Real Application Clusters in a Linux environment Real Application Clusters commonly abbreviated as RAC is Oracle s industry leading architecture for scalable and fault tolerant databases RAC allows you to scale up and down by simply adding and subtracting inexpensive Linux servers Redundancy provided by those multiple inexpensive servers is the basis for the failover and other fault tolerance features that RAC provides Written by authors well known for their talent with RAC Pro Oracle Database 11g RAC on Linux gives you a rock solid and technically flawless foundation on which to build your RAC management skills Authors Julian Dyke and Steve Shaw share their hard won experience in building RAC clusters showing you how to build for success using the very latest Oracle technologies such as Automatic Storage Management ASM and Oracle Clusterware You ll learn to troubleshoot performance and other problems You ll even learn how to correctly deploy RAC in a virtual machine environment based upon Oracle VM which is the only virtualization solution supported by Oracle Corporation RAC is a complex and powerful technology It demands expertise in its deployment You can t just wing it in creating a RAC solution Julian and Steve have earned the right to term themselves expert in Pro Oracle Database 11g RAC on Linux they offer a rigorous and technically correct treatment of RAC that helps you build a solid foundation of expertise and achieve success Rigorous and technically accurate content Complete coverage of RAC from planning to implementation to rollout to ongoing maintenance and troubleshooting Up to date with the very latest RAC features

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