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Virtualizing Oracle® Databases on vSphere®

Kannan Mani
Don Sullivan

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



Virtualizing Oracle Databases On Vsphere Vmware Press Technology

**Charles Kim, George Trujillo, Steven
Jones, Sudhir Balasubramanian**



Virtualizing Oracle Databases On Vsphere VMware Press Technology:

Virtualizing Oracle Databases on VSphere Kannan Mani, Don Sullivan (Database specialist), 2014 Annotation

Thousands of organizations are virtualizing large scale Oracle database systems But until now reliable best practices have been hard to find and database and virtualization professionals have often brought differing and incompatible perspectives to the challenge Now there s a comprehensive best practice guide reflecting deep understanding of both Oracle and vSphere and supported by extensive in the field experience with the full spectrum of applications and environments [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 Oracle Databases on VSphere** Don Sullivan, 2014 [Virtualizing SQL 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

Developing an Enterprise Continuity Program Sergei Petrenko,2022-09-01 The book discusses the activities involved in developing an Enterprise Continuity Program ECP that will cover both Business Continuity Management BCM as well as Disaster Recovery Management DRM The creation of quantitative metrics for BCM are discussed as well as several models and methods that correspond to the goals and objectives of the International Standards Organisation ISO Technical Committee ISO TC 292 Security and resilience Significantly the book contains the results of not only qualitative but also quantitative measures of Cyber Resilience which for the first time regulates organizations activities on protecting their critical information infrastructure The book discusses the recommendations of the ISO 22301 2019 standard Security and resilience Business continuity management systems Requirements for improving the BCM of organizations based on the well known Plan Do Check Act PDCA model It also discusses the recommendations of the following ISO management systems standards that are widely used to support BCM The ISO 9001 standard Quality Management Systems ISO 14001 Environmental Management Systems ISO 31000 Risk Management ISO IEC 20000 1 Information Technology Service Management ISO IEC 27001 Information Management security systems ISO 28000 Specification for security management systems for the supply chain ASIS ORM 1 2017 NIST SP800 34 NFPA 1600 2019 COBIT 2019 RESILIA ITIL V4 and MOF 4 0 etc The book expands on the best practices of the British Business Continuity Institute s Good Practice Guidelines 2018

Edition along with guidance from the Disaster Recovery Institute's Professional Practices for Business Continuity Management 2017 Edition. Possible methods of conducting ECP projects in the field of BCM are considered in detail. Based on the practical experience of the author, there are examples of Risk Assessment (RA) and Business Impact Analysis (BIA) examples of Business Continuity Plans (BCP), Disaster Recovery Plans (DRP), and relevant BCP/DRP testing plans. This book will be useful to Chief Information Security Officers, internal and external Certified Information Systems Auditors, senior managers within companies who are responsible for ensuring business continuity and cyber stability, as well as teachers and students of MBA's CIO and CSO programs.

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 SQL Server with VMware Michael Corey, Jeff Szastak, Michael Webster, 2014. Offers techniques, tips, and insights into squeezing maximum performance out of a virtualized database.

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.

Virtualize Oracle Business Critical Databases Charles Kim, George Trujillo, Steven 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 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 your journey

Storage 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,Muòòtafâa Khalâil,2012 *Oracle VM Implementation and Administration Guide* Edward Whalen,2011-08-05 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 Oracle VM Manager using this book and eBook [Oracle Database 11g](#) Sam Alapati,Charles Kim,2008-03-09 Oracle Database 11g 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 adopting Years of database administration experience from authors Sam Alapati and Charles Kim are combined with sound step by step testing and a heart felt emphasis on what matters in the real world to help you get the most out of Oracle Database 11g

[VMware vSphere 4](#) Dennis Zimmer,2010 [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 Exalogic Elastic Cloud Handbook](#) Tom Plunkett,TJ Palazzolo,Tejas Joshi,2012-09-05 Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide Oracle Exalogic Elastic Cloud Handbook shows you how to plan implement and maintain a private cloud Find out how to set up components deploy Java applications maximize redundancy and throughput and migrate legacy workloads Examples screenshots and diagrams are included throughout this comprehensive resource Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build debug and manage custom Java applications Secure monitor and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion Middleware Consolidate Oracle and third party application workloads **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,2013-11-23 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 What you'll learn Master the new consolidation and cloud features in Oracle Database 12c Correctly decide when to consolidate and when to remain standalone Reduce cost by reducing demand for rack space power and floor space Streamline administration with Oracle Enterprise Manager 12c Cloud Control Ensure the correct supporting infrastructure for a rock solid environment Safeguard your new consolidate infrastructure from disaster and data loss Who this book is for Expert Consolidation in Oracle Database 12c is aimed at database administrators involved in consolidation efforts or who are interested in exploring Oracle Database 12c's strong support for consolidation and cloud computing Table of Contents1 Consolidation as an Industry Trend 2 Oracle 12c New Features 3 Supporting Hardware 4 Supporting Software 5 Installing Oracle Linux 6 Installing Oracle Database 7 Pluggable Databases 8 Monitoring the Hosting Platform 9 Learning About Data Guard 10 Implementing Data Guard 11 Backup and Recovery 12 Upgrading to Oracle 12c *Oracle Database 12c Install, Configure & Maintain Like a Professional* Ian Abramson, Michael Abbey, Michelle Malcher, Michael J. Corey, 2013-09-25 Annotation Master the Fundamentals of Oracle Database 12c Filled 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 quizzes to test your knowledge

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